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C# 2010
and the
.NET 4.0 Framework

Self-Inflicted Project #1:
Address Cleaning

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Introduction

This document details the steps I went through to create an address cleaning program using C# 2010 Express Edition in the Microsoft .NET 4.0 Framework. Note that at this point in my C# education I have not begun to use the *Microsoft Visual C # 2010* GUI interface. I am more interested right now in learning the intricacies of the C# language than I am with the GUI interface. With that said, the code you see below has been placed in a text editor and compiled at the command line using the *Visual Studio Command Prompt (2010)*.

The address cleaning regular expressions in the C# code below deal with U.S. addresses only, and you should create your own regular expressions to match the unique forms of address in your country.

Also, I am just beginning my travels with C# and the .NET 4.0 Framework, so the code you will see below is, most likely, very amateurish compared to how a professional C# programmer would approach this problem. Apologies up front! Let me know if you have any ideas on how to make this code more professional by emailing me at comments@sheepsqueezers.com.

This document is termed *self-inflicted* because I am forcing myself to do this, and other, projects in order to learn C# faster…when I'd really rather be playing on my XBOX.

Thanks!
The Sheepster
June 22, 2011

Forms of U.S. Addresses

Addresses within the United States, whether business or residential, take on a form similar to the following:

```
123 Main Street
```

Usually, addresses start with a street number, followed by a street name followed by a street type. The street number can be any number of digits and may or may not include a pound sign (#) at the start to indicate that a number follows (as if we really need help identifying numbers…sheesh!).

The street name can be one or more words, but may also contain numbers as well.

The street type can be one amongst a variety of terms such as street, circle, drive, boulevard, place, etc.

Note that I am excluding the city, state and zipcode in the address cleaning and just focusing on the address portion of the address.

Now, the example address shown above is very simple. Here is a more complicated address:

```
#123 North Main Street South Suite A12
```

This address contains a street number (123), a direction indicator (North), a street name (Main), a street type (Street), another direction indicator (South), the word Suite indicating that what most likely follows is the suite number, A12.

Here is another address:

```
#123 North Main1 Main2 Street South Suite A12
```

This address is similar to the previous address except that the street name is made up of two blank-separated words: Main1 and Main2.

So far, our addresses have be very nice in that the component parts have been spelled correctly with spaces exactly where you need them and the world is a happy place. But, here is an example where the world has gone to hell:

```
#123 Nort Main St Sth Ste A12
```

As you see, the word Street is represented by its abbreviated form St, South is indicated by Sth, and, finally, Suite is abbreviated Ste. Note that some of these abbreviates are valid since they are standard abbreviations for these words. Suite is commonly abbreviated Ste, and Street is commonly abbreviated by St. I talk about these abbreviations and misspellings in the next section.

You will also notice that the word North is mis-spelled as Nort. Or is it? Is the street name Main or is it Nort Main? This is one of the difficulties with address cleaning.

Now, in order to match one of the above address forms, you will need to create a regular expression to match it. I've created 181 regular expressions to match a variety of U.S. addresses. For example, in order to match the following address form…

```
#123 NORTH MAIN STREET SOUTH SUITE A12
```

…I created the following regular expression…

```
^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|W
EST|WESST|SE|SOUTHEAST|NW|NORTHWEST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1})
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PL
C|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLV
E|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOLVD|CIR|CIRC
|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|
ROAD|ROA|RO|RAOD|ROAJ|TR|TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PK
W|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHWY|HY|WAY|WY|PK|PARK|FW
Y|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPK
E|TRNP|TPK|EXPRESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERR
AC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|CYN|CROSSING|CROSSI|CORNER|POINTE
|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1
})
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|
WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1})
+(?<STREET_UNIT_NBR>\w+) *$
```

Note the use of the group capture parentheses along with the associated name of the capture (STREET_NUMBER_PRE, etc.). These will allow us to capture the individual components of the address based on what the regular expression matched. I used the group capture names in order to make the regular expressions and C# code more readable and, hopefully, more maintainable.

Our goal is to use regular expressions to break up an address in the form shown above (as well as a plethora of other address forms) into its component parts (street number, street name, street type, etc.). Then, these component parts will be cleaned so that `St` will be replaced by `Street`, `Dr` will be replaced by `Drive`, `Nort` will be replaced by `North`, and so on. Finally, a single cleaned address will be created from the cleaned components.

Note that the program shown in Appendix D does not create a perfect final cleaned address. It is up to you modify this code (highlighted in red) in order to come up with what you believe is the best cleaned address. Or, you can load the output data table into your database and then create the final cleaned address there…it's up to you.

Note that the code in Appendix D does have a main program that shows a simple example of how to use this program. The code expects you to instantiate the AddressClean class as shown below:

```
//Test the address cleaning from here!
AddressClean oAC = new AddressClean(dsADDRDATA,"InputData","ROWID","ADDRESS1");
```

I have also included a bit of code showing you how to bulk load the OutputData table into SQL Server. Naturally, you'll have to change this if you are using a different database. I have included SQL code that you can use to create the OutputData table in your database. See Appendix C.

```
//Use this code to bulk load OutputData into SQL Server database. Create the table first!!
String sConnDEST = @"Data Source=SCOTT-PC\SQLTEST;Initial Catalog=TESTDB;Integrated Security=SSPI;";
SqlConnection oConnDEST = new SqlConnection(sConnDEST);
oConnDEST.Open();
SqlBulkCopy oBcpDEST = new SqlBulkCopy(oConnDEST);
oBcpDEST.DestinationTableName="dbo.OutputData";
oBcpDEST.WriteToServer(dsADDRDATA.Tables["OutputData"]);
```

Finally, note that the program uppercases the address you are providing to it. Since the results are placed in the output data table OutputData in the provided Dataset, your original address is not affected.

Dealing with Abbreviations and Misspellings

As shown above, there are several ways people abbreviate (or misspell) street types, directions, etc. After going through a lot of data, I've come up with the following list of potential abbreviations and misspellings. Note that the alternations shown below may flow onto the following line, but be aware that they are supposed to be on one line within the regular expression alternation parentheses! See Appendix A for the complete list of regular expressions.

Also, note that I have created SQL code as well as a series of SQL INSERTs that load these abbreviations/misspellings into the database. See Appendix B. The data in this table is pulled back from the database during program execution and is loaded into a series of dictionary objects used to translate from the abbreviated/misspelled forms to the canonical forms (such as St to STREET).

Directions

Directions such as North, South, etc. based on the following regular expression alternation…

```
N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHE
AST|NW|NORTHWEST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS
```

…will be mapped to the following clean directions…

```
"N","NO","NORT","NORHT","NRTH"= "NORTH    "
"S","SO","SOU","SOUT","SOUHT" = "SOUTH    "
"E"                           = "EAST     "
"W","WESST","WE","WES",
"WESTE","WS"                  = "WEST     "
"SE","S E"                    = "SOUTHEAST"
"NW","N W"                    = "NORTHWEST"
"NE","N E","NORTE"            = "NORTHEAST"
"SW","S W"                    = "SOUTHWEST"
"BYPASSS"                     = "BYPASS   "
```

Street Types

Street types such as Street, Circle, Place, Boulevard, Drive, etc. based on the following regular expression alternation…

```
ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|
DRIVE|DRVIE|DRIV|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOU
LVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOLVD|CIR|CIRC|CIRCL|CIRCLE|CR|S
Q|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|
ROAJ|TR|TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PK
WYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHWY|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|
BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TE
RR|TE|PATH|WK|XING|HILLS|HILL|CANYON|CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSE
WAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS
```

…will be mapped to the following clean street types…

```
"ST","STREE","STEET","STREEET","STRET","STRE","STR"        = "STREET    "
"STS","STREETS"                                            = "STREETS   "
"PL","PLC","PLAC","PLA"                                    = "PLACE     "
"DR","DRVIE","DRIV","DRI","DRV","XDRIVE","XRIVE"           = "DRIVE     "
"BL","BLLVD","BLVD","BVLD","BLVE","BVD","BOULVARD",
"BOULEVAR","BOULEVA","BOULEV","BOULE","BOUL","BLDV","BLV"  = "BOULEVARD "
"CIR","CIRC","CIRCL","CR"                                  = "CIRCLE    "
"SQ","SQU","SQUAR"                                         = "SQUARE    "
"CT"                                                       = "COURT     "
"AV","AVE","AVR","AVEN","AVER","AVENU"                     = "AVENUE    "
"RD","ROA","RO","RAOD","ROAJ"                              = "ROAD      "
"TR"                                                       = "TRAIL     "
"PLZ","PLAZ"                                               = "PLAZA     "
"LN","LA"                                                  = "LANE      "
"PKWY","PARKWA","PKY","PKW","PRKWY","PKKWY","PKWYA",
"PARKW","PRWY","PW"                                        = "PARKWAY   "
"HWY","HGWY","HIGHW","HGHWY","HY"                          = "HIGHWAY   "
"WY"                                                       = "WAY       "
"FWY","FRWY"                                               = "FREEWAY   "
"BEND"                                                     = "BEND      "
"PK"                                                       = "PIKE      "
"LOO"                                                      = "LOOP      "
"TURNPIK","TURNPI","TRNPKE","TRNPK","TURNP","TPKE",
"TRNP","TPK"                                               = "TURNPIKE  "
"EXPRESSW","EXPRESS","EXPRE","EXPWY","EXPRY","EXPY","EXP"  = "EXPRESSWAY"
"COVE"                                                     = "COVE      "
"TERRAC","TRL","TER","TERR","TE"                           = "TERRACE   "
"PATH"                                                     = "PATH      "
"WK"                                                       = "WALK      "
"XING","CROSSI"                                            = "CROSSING  "
"CORNER"                                                   = "CORNER    "
"POINT"                                                    = "POINT     "
"POINTE"                                                   = "POINTE    "
"CAUSEWAY","CUASEWAY","CSWY"                               = "CAUSEWAY  "
"LINE"                                                     = "LINE      "
"HILLS"                                                    = "HILLS     "
"HILL"                                                     = "HILL      "
"CANYON","CYN"                                             = "CANYON    "
"HEIGHTS","HEIGH","HIGHT","HTS"                            = "HEIGHTS   "
```

Suites and Apartments

Suite and apartment indications such as Suite and Apt based on the following regular expression alternation…

```
SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS
```

…will be mapped to the following clean suite and apartment indications…

```
"SUITE","SUTIE","SUIT","SUI","STE","SU","ST"  = "SUITE    "
"APT"                                         = "APARTMENT"
"UNIT","UNITS"                                = "UNIT     "
"NO"                                          = "NUMBER   "
```

Buildings

Indications of buildings such as Building or BLG based on the following regular expression alternation…

```
BUILDING|BUIDING|BLDG|BDG|BLD|BLG
```

…will be mapped to the following clean building indicator…

```
"BUILDING","BUIDING","BLDG","BDG","BLD","BLG" = "BUILDING"
```

Floors

Indications of floors such as Floor or Level based on the following regular expression alternation…

```
FLOOR|FLOO|FLO|FLR|FL|FL00R|LEVEL|LVL
```

…will be mapped to the following clean floor or level indicator…

```
"FLOOR","FLOO","FLO","FLR","FL" = "FL00R"
"LEVEL","LVL"                   = "LEVEL"
```

Departments

Indications of departments such as DEPT and DPT based on the following regular expression alternation…

```
DEPT|DEPARTMENT|DPT
```

…will be mapped to the following clean department indicator…

```
"DEPT","DEPARTMENT","DPT" = "DEPARTMENT"
```

Direction Bounds

Indication of direction boundedness such as EB for Eastbound and SB for Southbound based on the following regular expression alternation…

```
EB|SB|WB|NB
```

…will be mapped to the following clean direction boundedness indicators…

```
"EB" = "EASTBOUND "
"SB" = "SOUTHBOUND"
"WB" = "WESTBOUND "
"NB" = "NORTHBOUND"
```

Highways

Indication of highways such as HWY based on the following regular expression alternation…

```
HIGHWAY|HWY|HGWY|HIGHW|HGHWY
```

…will be mapped to the following clean highway indicator…

```
"HIGHWAY","HWY","HGWY","HIGHW","HGHWY" = "HIGHWAY"
```

Additional Useful Alternations

The following is a list of additional regular expression alternations are used in the program.

Medical Facility Indicators

Since the data I looked at was medical-related data, I include the following alternation. You may want to remove the medical-related regular expressions when matching your data.

```
MEDICAL|MED|HOSPITAL|HOSP|ORTHO|HEALTH|HLTH|CARE|CHIRO|NURSING|PODIATRY|REPRO|RADI
OLOGY|PATHOLOGY|PROF|VISION|MEMORIAL|VASCULAR|EYE|DERMAT|NEURO|CARDIO|COUNSEL|BEHA
V|UROLOG|CLINIC|RADIATION|RADIOLOG|ONCOLOG|DIABETES|DIAGNOS|DIAGN|SURGERY|PEDIAT|H
EART|PSYCH|AGING|LIPID|IMAGING|AMBULANCE|DIALYSIS|INPATIENT|OUTPATIENT|REHAB|LABOR
ATORY|AUDIOLOGY|PHYS|LIMB|OPTICAL|EAR|SPINE|SURGICAL|SURGICENTER|PRACTICE|GASTROEN
TEROLOGY|OBESITY|ENDOSCOPY|RELIEF|SLEEP|LABCORP|EPILEPSY|SCOLIOSIS|SPINAL
```

Street Numbers as Cardinal Numbers

```
ONE|TWO|THREE|FOUR|FIVE|SIX|SEVEN|EIGHT|NINE|TEN|ELEVEN|TWELVE|THIRTEEN|FOURTEEN|F
IFTEEN|SIXTEEN|SEVENTEEN|EIGHTEEN|NINETEEN|TWENTY
```

Street Numbers as Ordinal Numbers (Text)

```
FIRST|SECOND|THIRD|FOURTH|FIFTH|SIXTH|SEVENTH|EIGTH|NINTH|TENTH
```

Business Names

```
MCDONALDS|TARGET|WALMART|BURGER|PUB|CHOPPER|RESTAURANT|SHOP|SHOPPE|HOTEL|MOTEL|KIT
CHEN|INN|PIZZA|CORP|BANK|GYM|FITNESS|SHOPP|KMART|SUNOCO|BORGATA|CLARIDGE|HILTON|MA
HAL
```

Medical Degrees

```
MD|PHD|DO|DC|OD
```

as well as

```
FACS|FACP
```

Elementary and High Schools

`ELEM|ELEMENTARY|HIGH|MIDDLE` as well as `SCHOOL|SCHL`.

Dr. Martin Luther King, Jr. and Variations

```
DR|DOCTOR
M|MARTIN
```

```
L|LUTHER
K|KING
JR
```

Box and Drawer

```
BOX|DRAWER
```

as well as

```
BOX|BX|BOC|B0X|BIX|OX|DRAWER
```

as well as

```
BOX|NO|NUMBER
```

Capital

```
CAP|CAPITAL
```

Interstate

```
I|INTERSTATE
```

Street Numbers as Ordinal Number (Numeric)

```
ST|ND|RD|TH
```

Extension (Road and Not Phone Number)

```
EXT|EXTENSION
```

Unknown and Variations

```
UNKNOWN|XXXXXXXXX|XXXXX|XXX|XX
```

Routes and State Roads

```
ROUTE|RTE|RT|RR|SR
```

Identification Number (Tax ID, UPIN, CLIA ID, etc.)

```
CLIA
CLIA ID
TIN
UPIN
TAX ID
```

Office and Variations

```
OFFICE|OFFIC
```

US Two-Letter State Codes

```
AK|AZ|AR|CA|CO|CT|DE|DC|FL|GA|HI|ID|IL|IN|IA|KS|KY|LA|ME|MD|MA|MI|MN
|MS|MO|MT|NE|NV|NH|NJ|NM|NY|NC|ND|OH|OK|OR|PA|RI|SC|SD|TN|TX|UT|VT|V
A|WA|WV|WI|WY
```

Design of the C# Address Cleaning Program

Below are some bullet points as to the design of the program. As mentioned above, my design of this program will most likely be considered very amateurish compared to how a professional C# programmer would design this program.

- Input Data: The input data is to be a `Dataset` (from the `System.Data` namespace) containing an input data table.
- Output Data: The output will be a data table called `OutputData` added to the input `Dataset` containing additional fields as needed as well as the field `CLEAN_ADDRESS` containing the final cleaned address. The only fields copied from the original input data table are the unique identifier for the row and the address field itself. All other fields appearing within the input data table are excluded. Note that the row identifier can be as simple as a row number and is required so that you can merge the input data and the output data, if necessary.
- Since there are 181 regular expressions, rather than having to actually code each instantiation of a `Regex` object by hand within the C# program, I have loaded these regular expressions into a database table. See Appendix A for the SQL INSERTs. I create a structure of `Regex` objects and then loop around each `Regex` for each regular expression string. Note that once a match has been found, the remaining regular expressions will be skipped. Thus, it is important that the regular expressions be arranged from most specific to least specific; otherwise, you could miss important data. With that said, since I use the ^ and $ in all of my regular expressions, this is probably less important than you might think (except for performance, of course).
- The regular expressions take into account *pre* and *post* information. That is, when an address contains an intersection form such as 123 MAIN STREET AND SECOND AVENUE, the 123/MAIN/STREET are considered pre information whereas the SECOND/AVENUE are considered post information. You will see that reflected in the OutputData data table's fields: STREET_NUMBER_PRE, STREET_NUMBER_POST, STREET_NAME_PRE, STREET_NAME_POST, etc.
- The class `AddressClean` is created containing the regular expression code.
- Note that I have created an indentification number (REGEX_ID) along with descriptive text (REGEX_DESC) for each regular expression. This information is provided to the output data table for use with QC in order to determine if a match was correct. If not, additional regular expressions may need to be created by you.
- I create a structure that holds one Dictionary for each abbreviation group (see Appendix B). That is, there is one Dictionary for the U.S. States, and one dictionary for the street types, and so on. Based on the field being cleaned, the appropriate Dictionary is used in the post-processing cleaning.
- The regular expression matching will be done ignoring case, but the final cleaned address will be in capital letters. Note that this final cleaned address will be my version of what the address should be, but yours may vary. For my final cleaned address, I use the following fields: STREET_NUMBER_PRE, STREET_DIR_PRE, STREET_NAME_PRE, and STREET_TYPE_PRE concatenated together with a single space, as show in the C# code below:

```
//Create the clean address
drThisRow["CLEAN_ADDRESS"] = (String) drThisRow["STREET_NUMBER_PRE"] + " "
                           + (String) drThisRow["STREET_DIR_PRE"] + " "
                           + (String) drThisRow["STREET_NAME_PRE"] + " "
                           + (String) drThisRow["STREET_TYPE_PRE"];
```

This is why the output data table contains A LOT of fields gleaned from the incoming address field. Once the output data table is filled in, you can put the address together as you see fit. NOTE: The only reason that you can concatenate the fields together as shown in the code above is because I have created a default value for each of the fields appearing in the OutputData data table. This default is a blank, and without it the code above will bomb! Make sure to add the code `datacolumn.DefaultValue="";` to any additional columns you want to add to the C# code!

- The address field goes through pre-processing to fix some issues such as changing " N W " to "NW" to mean northwest, etc. Similar for northeast, southwest and southeast. Also, leading and trailing blanks are removed, duplicated spaces are replaced with a single space and so on. See the PreProcess method.
- Some of the fields will go through post-processing in order to standardize them. For example, #123 HWY 123 has the word HWY translated to HIGHWAY. I have created a PostProcess method that transforms HWY to HIGHWAY, etc.
- The final cleaned address field,, CLEAN_ADDRESS, is not perfect, but you can make additional modifications as you see fit. In any case, when the data is finally loaded into the database, you can then decide how you want to clean up your addresses.

Now, in the program I use a structure which holds a regular expression object as well as a description of the regular expression along with its identification number:

```
private struct RegexStruct {

  public Int32 iREID;
  public String sDESC;
  public Regex oRE;

}
```

This description contains a number, followed by a colon (:) followed by an example of what the regular expression is looking for. For example,

```
1001:#123 NORTH MAIN STREET SOUTH SUITE A12
```

The number 1001 allows you to know which regular expression was used and to aid in debugging. (You're welcome! ☺) I start number at 1000 to indicate a series of related regular expressions. That is, the 1000-series regular expressions deal with standard addresses, the 1100-series deal with post office boxes, etc., the 1200-series deals with file/drawers, the 1300-series deal with suites and floors, etc.

The following structure is used for the post-processing cleaning of certain fields:

```
private struct AbbrevStruct {

 public Int32 iCATID;
 public Dictionary<String,String> dCLEANMAP;

}
```

Each abbreviation category will be given its own entry in the array of AbbrevStruct.

Compiling and Using the Address Cleaning Program

To use this program, shown in Appendix D, you need to modify it so that it reads in your input data as a `Dataset` containing a single `DataTable`. You can do this by using the `System.Data.*` namespace for your database. You will also have to modify the bulk load code at the end of the main program to load your data back into the database, if needed.

The operative code is the following line appearing in your main program:

```
AddressClean oAC = new AddressClean(dsADDRDATA,"InputData","ROWID","ADDRESS1");
```

This will instantiate the AddressClean class, and provides the Dataset (dsADDRDATA), the name of the input data table (InputData), the row identification field (ROWID) as well as the address field to clean (ADDRESS1) to the constructor. The address cleaning is run from within the constructor, so you don't have to invoke a method to get it to run…which is probably not the best object-oriented programming approach…sigh…

Now, to compile the program, all you have to do is issue the following command at the Visual Studio Command Prompt 2010 (or use the Visual Studio GUI interface itself) :

```
csc AddressClean.cs
```

This creates the executable `AddressClean.exe`. Type `AddressClean` at the command prompt to run the program. Note that depending on how much input data you pumping into this program, it make take several minutes to several hours to clean all of the addresses.

APPENDIX A – Address Cleaning Regular Expressions

This appendix contains the database inserts into the `ADDRESS_REGEX` table that will hold all of the regular expressions for the address cleaning program.

```
CREATE TABLE ADDRESS_REGEX(REGEX_ID INT,REGEX_DESC VARCHAR(200),REGEX VARCHAR(200));
INSERT INTO ADDRESS_REGEX VALUES(1001,'1001:#123 NORTH MAIN STREET SOUTH SUITE A123','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1})
+(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1002,'1002:#123 NORTH MAIN STREET SOUTH SUITE ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(1003,'1003:#123 NORTH MAIN STREET SUITE A123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) +(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1004,'1004:#123 NORTH MAIN SOUTH SUITE A123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1})
+(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1005,'1005:#123 MAIN STREET SOUTH SUITE A123','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1})
*(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1006,'1006:123 MAIN STREET SUITE 789 SOUTH ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) *(?<STREET_UNIT_NBR>\w+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
```

```
INSERT INTO ADDRESS_REGEX VALUES(1007,'1007:#123 MAIN STREET NORTH 789','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1008,'1008:#123 NORTH MAIN SOUTH A123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1009,'1009:#123 NORTH MAIN STREET SUITE ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1010,'1010:#123 MAIN STREET SUITE A123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) *(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1011,'1011:#123 NORTH MAIN STREET SOUTH ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1012,'1012:#123 NORTH MAIN STREET 789','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1013,'1013:#123 NORTH MAIN SUITE A123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) +(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1014,'1014:#123 MAIN STREET SUITE ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1015,'1015:#123 NORTH MAIN STREET ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
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NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(1016,'1016:#123 MAIN STREET NORTH ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1017,'1017:#123B MAIN STREET 789','^#?(?<STREET_NUMBER_PRE>\d+[A-Z]*)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1018,'1018:#123 NORTH MAIN 789','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+) +(?<STREET_UNIT_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1019,'1019:#123A NORTH MAIN ','^#?(?<STREET_NUMBER_PRE>\d+[A-Z]{1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1020,'1020:#123A MAIN STREET','^#?(?<STREET_NUMBER_PRE>\d+[A-Z]{1})
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(1021,'1021:123 NORTH 500 WEST ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1022,'1022:#123 NORTH MAIN ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1023,'1023:#123 MAIN SUITE A123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1})
+(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1024,'1024:123 MAIN STREEET ','^(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(1025,'1025:#123 MAIN ','^#?(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1026,'1026:123 SOUTH MAIN STREET P O BOX ABCDEF12345 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
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CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+P *(?:O|0) *(?:BOX|DRAWER) *(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1027,'1027:123 SOUTH MAIN P O BOX ABCDEF12345 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+) +P *(?:O|0) *(?:BOX|DRAWER) *(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1028,'1028:#123 MAIN STREET PO BOX(or DRAWER) ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+P *(?:O|0) *(?:BOX|DRAWER) *(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1029,'1029:123 MAIN STREET POBABCDEF12345 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+POB *(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1030,'1030:#123 MAIN PO BOX(or DRAWER) ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+) +P *(?:O|0) *(?:BOX|DRAWER) *(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1031,'1031:#123 MAIN POB ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+) +POB *(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1032,'1032:#123 MAIN STREET BUILDING ABC123 SUITE A123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>\w+)
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) +(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1033,'1033:#123 NORTH MAIN STREET BUILDING ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1034,'1034:#123 MAIN STREET BUILDING ABC123 SUITE ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>\w+)
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1035,'1035:#123 MAIN BUILDING ABC123 SUITE DEF456 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+) +(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>\w+)
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) +(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1036,'1036:123 MAIN STREET NORTH BLDG ABC ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
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NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1})
+(?<BUILDING_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1037,'1037:#123 MAIN STREET BUILDING ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1038,'1038:#123 MAIN STREET BUILDING ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1039,'1039:#123 MAIN STREET 4TH FLOOR ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<LEVEL_NBR>\d+\w+) *(?<LEVEL_TYPE>(FLOOR|FLOO|FLO|FLR|FL|FL00R|LEVEL|LVL)+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1040,'1040:#123B MAIN STREET A789Z','^#?(?<STREET_NUMBER_PRE>\d+[A-Z]*)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1041,'1041:123 EAST 41 ST|ND|RD|TH PO BOX 789','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\d+ *(ST|ND|RD|TH)+) +P *(?:O|0)
*(?:BOX|BX|BOC|B0X|BIX|OX|DRAWER) *(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1042,'1042:123 EAST 41 ST|ND|RD|TH ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\d+ *(ST|ND|RD|TH)+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1043,'1043:123 MAIN NORTH 123TH|ST|RD|ND FLOOR ROOM|RM 456
','^#?(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_POST>\d+ *(?:ST|ND|RD|TH)+)
+(?<LEVEL_TYPE>(FLOOR|FLOO|FLO|FLR|FL|FL00R|LEVEL|LVL)+) +(?:ROOM|RM) +(?<ROOM_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1044,'1044:123 MAIN 123TH|ST|RD|ND FLOOR ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+) +(?<STREET_NAME_POST>\d+ *(?:ST|ND|RD|TH)+)
+(?<LEVEL_TYPE>(FLOOR|FLOO|FLO|FLR|FL|FL00R|LEVEL|LVL)+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1045,'1045:123 EAST 41 ST|ND|RD|TH STREET ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\d+ *(ST|ND|RD|TH)+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(1046,'1046:123 41 ST|ND|RD|TH STREET NORTH (EXTRA DATA IGNORED)
','^(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\d+ *(ST|ND|RD|TH)+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
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CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1})');
INSERT INTO ADDRESS_REGEX VALUES(1047,'1047:#123 MAIN BUILDING ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+) +(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1048,'1048:#123 MAIN STREET SUITE REST-OF-LINE ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) +(.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1049,'1049:#123 NORTH MAIN STREET SOUTH A123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1050,'1050:123 S W ##TH ','^(?<STREET_NUMBER_PRE>\d+ *(SW|NW|SE|NE){1})
+(?<STREET_NAME_PRE>\d+ *(ST|ND|RD|TH)+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1051,'1051:#123 MAIN MAIN STREET OFFICE? BUILDING ABC123 SUITE DEF456
','^#?(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?:OFFICE|OFFIC)? *(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>.*)
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) +(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1052,'1052:#123 MAIN MAIN STREET OFFICE? BUILDING ABC123
','^#?(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?:OFFICE|OFFIC)? *(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1053,'1053:123 EAST MAIN BUILDING ABC123 SUITE BLAH ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>\w+)
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) +(?<STREET_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1054,'1054:123 EAST MAIN BUILDING ABC123 ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) +(?<BUILDING_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1055,'1055:123 MAIN SOUTH SUITE # ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE)+) +(?<STREET_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1056,'1056:123 NORTH 400 WEST A123 ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1057,'1057:123 NORTH MAIN MAIN A123 ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+ +\w+) +(?<STREET_UNIT_NBR>[A-Z]{1}\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1101,'1101:PO BOX or PO DRAWER ABC1234 (Note that the O could be a zero) ','^P
*(?:O|0) *(?:BOX|BX|BOC|B0X|BIX|OX|DRAWER) *(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1102,'1102:POST OFFICE BOX ABC1234 ','^POST +OFFICE +BOX +(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1103,'1103:POB ABC1234 ','^(?:POB|BOX) +(?<PO_BOX_NBR>.*)$');
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INSERT INTO ADDRESS_REGEX VALUES(1201,'1201:FILE 123 PO BOX(or DRAWER) ABC123 ','^FILE +(?<FILE_NBR>\d+) +P *(?:O|0)
*(?:BOX|DRAWER) *(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1202,'1202:FILE 123','^(?:FILE|DRAWER) +(?<FILE_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1203,'1203:FILE BOX (or NO or NUMBER) 123 ','^FILE +(?:BOX|NO|NUMBER)
+(?<FILE_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1204,'1204:FILE 123 BOX (or NO or NUMBER) 123 ','^FILE *(?<FILE_NBR>\d+)[ -
]+(?:BOX|NO|NUMBER) *(?<PO_BOX_NBR>.*) *$');
INSERT INTO ADDRESS_REGEX VALUES(1301,'1301:SUITE ABC123 ','^(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE)+)
*(?<STREET_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1302,'1302:# TH FLOOR ','^(?<LEVEL_NBR>\d+ *(ST|ND|RD|TH)+)
+(?<LEVEL_TYPE>(FLOOR|FLOO|FLO|FLR|FL|FL00R|LEVEL|LVL)+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1401,'1401:US HIGHWAY or US HWY or HIGHWAY or HWY ABC123 ','^(?<HIGHWAY_TYPE>((US
HIGHWAY)|(US HWY)|(HIGHWAY)|(HWY)){1}) *(?<HIGHWAY_NBR>\w+)$');
INSERT INTO ADDRESS_REGEX VALUES(1402,'1402:#123 HWY 123 NORTH','^#?(?<STREET_NUMBER_PRE>\d+) +(?<HIGHWAY_TYPE>((US
HIGHWAY)|(US HWY)|(HIGHWAY)|(HWY)){1}) *(?<HIGHWAY_NBR>\w+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1403,'1403:#123 HWY 123 ','^#?(?<STREET_NUMBER_PRE>\d+) +(?<HIGHWAY_TYPE>((US
HIGHWAY)|(US HWY)|(HIGHWAY)|(HWY)){1}) *(?<HIGHWAY_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1404,'1404:123 HIGHWAY 456 NORTH ','^(?<STREET_NUMBER_PRE>\d+)
+(?<HIGHWAY_TYPE>(HIGHWAY|HWY|HGWY|HIGHW|HGHWY)+) +(?<HIGHWAY_NBR>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1405,'1405:123 US HIGHWAY 456 NORTH ','^(?<STREET_NUMBER_PRE>\d+)
+(?<HIGHWAY_TYPE>((US HIGHWAY)|(US HWY)|(HIGHWAY)|(HWY)){1}) *(?<HIGHWAY_NBR>\w+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1406,'1406:123 ST HIGHWAY 456 NORTH ','^(?<STREET_NUMBER_PRE>\d+)
+(?<HIGHWAY_TYPE>((STATE HIGHWAY)|(STATE HWY)){1}) *(?<HIGHWAY_NBR>\w+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1407,'1407:123 AL|AR|etc. HIGHWAY 456 NORTH ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STATE_CODE>(AK|AZ|AR|CA|CO|CT|DE|DC|FL|GA|HI|ID|IL|IN|IA|KS|KY|LA|ME|MD|MA|MI|MN|MS|MO|MT|NE|NV|NH|NJ|NM|NY|NC|ND|O
H|OK|OR|PA|RI|SC|SD|TN|TX|UT|VT|VA|WA|WV|WI|WY){1}) +(?<HIGHWAY_TYPE>(HIGHWAY|HWY|HGWY|HIGHW|HGHWY){1})
*(?<HIGHWAY_NBR>\w+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1408,'1408:STATE HIGHWAY 456 EXTRA_TEXT
','^(?<HIGHWAY_TYPE>(HIGHWAY|HWY|HGWY|HIGHW|HGHWY)+) +(?<HIGHWAY_NBR>\d+) *(.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1409,'1409:#123 HWY 123 NORTH SUITE #','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<HIGHWAY_TYPE>(HIGHWAY|HWY|HGWY|HIGHW|HGHWY)+) +(?<HIGHWAY_NBR>\d+)
*(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE)+) *(?<STREET_UNIT_NBR>.*) *$');
INSERT INTO ADDRESS_REGEX VALUES(1410,'1410:#123 HWY 123 NORTH ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<HIGHWAY_TYPE>(HIGHWAY|HWY|HGWY|HIGHW|HGHWY)+) +(?<HIGHWAY_NBR>\d+)
*(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}).*$');
INSERT INTO ADDRESS_REGEX VALUES(1501,'1501:CLIA (or CLIA ID) # ','^CLIA *(ID)? *(?<CLIA_ID_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1502,'1502:TAX ID # ','^TAX *(ID)? *(?<TAX_ID_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1503,'1503:UPIN # ','^UPIN *(ID)? *(?<UPIN_ID_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1504,'1504:TIN (Taxpayer Identification Number) # ','^TIN *(ID)?
*(?<TAX_ID_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1601,'1601:BUILDING ABC123
','^(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) *(?<BUILDING_UNIT_NBR>.*) *$');
INSERT INTO ADDRESS_REGEX VALUES(1701,'1701:ROUTE 123 ','^(?<ROUTE_TYPE>(ROUTE|RTE|RR|RT|SR|US ROUTE){1})
*(?<ROUTE_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1702,'1702:1 ROUTE 123 SOUTH ','^(?<STREET_NUMBER_PRE>\d+)
+(?<ROUTE_TYPE>(ROUTE|RTE|RR|RT|SR|US ROUTE){1}) +(?<ROUTE_NBR>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1703,'1703:1 US ROUTE 123 SOUTH ','^(?<STREET_NUMBER_PRE>\d+)
+(?<ROUTE_TYPE>(ROUTE|RTE|RR|RT|SR|US ROUTE){1}) +(?<ROUTE_NBR>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1704,'1704:ROUTE 123 BOX ABC','^(?<ROUTE_TYPE>(ROUTE|RTE|RR|RT|SR|US ROUTE){1})
*(?<ROUTE_NBR>\d+) +(?:BOX|BX){1} +(?<PO_BOX_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1705,'1705:ROUTE|RTE|RT|RR remaining line -- CATCH
ALL!!','^(?<ROUTE_TYPE>(ROUTE|RTE|RR|RT|SR|US ROUTE){1}) *(?<EXTRA_INFO_IGNORED>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1706,'1706:STATE ROUTE|ROAD|RTE|RT| remaining line -- CATCH ALL!!','^STATE
+(?<ROUTE_TYPE>(ROUTE|RTE|RR|RT|SR|US ROUTE){1}) *(?<EXTRA_INFO_IGNORED>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1801,'1801:#123 NORTH MAIN MAIN STREET SOUTH SUITE
ABC123','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
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VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1})
+(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1802,'1802:#123 NORTH MAIN MAIN STREET SUITE ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) *(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1803,'1803:#123 NORTH MAIN MAIN STREET SOUTH ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1804,'1804:#123 NORTH MAIN MAIN STREET ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1805,'1805:#123 NORTH MAIN MAIN STREET ','^#?(?<STREET_NUMBER_PRE>\d+[A-Z]{1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(1806,'1806:123 NORTH MAIN MAIN ','^#?(?<STREET_NUMBER_PRE>\d+[A-Z]{1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+ +\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1807,'1807:#123AB MAIN MAIN STREET SUITE ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+\w*)
+(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) +(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1808,'1808:#123 MAIN MAIN STREET SUITE ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+)
*(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) *$');
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INSERT INTO ADDRESS_REGEX VALUES(1809,'1809:#123 MAIN MAIN SUITE ABC123','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1})
+(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1810,'1810:#123 MAIN MAIN STREET SOUTH','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1811,'1811:#123B MAIN MAIN STREET A789Z','^#?(?<STREET_NUMBER_PRE>\d+[A-Z]*)
+(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1812,'1812:#123 MAIN MAIN STREET ABC123 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1813,'1813:#123A MAIN MAIN STREET','^#?(?<STREET_NUMBER_PRE>\d+[A-Z]+)
+(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(1814,'1814:#123 MAIN MAIN STREET ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(1815,'1815:123 MAIN MAIN 789 ','^#?(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+
+\w+) +(?<STREET_UNIT_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1816,'1816:#123 MAIN MAIN','^#?(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+ +\w+)
*$');
INSERT INTO ADDRESS_REGEX VALUES(1817,'1817:#123 MAIN MAIN MAIN BUILDING ABC123 SUITE DEF789
','^#?(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+ +\w+ +\w+)
+(?<BUILDING_UNIT>(BUILDING|BUIDING|BLDG|BDG|BLD|BLG){1}) *(?<BUILDING_UNIT_NBR>\w+)
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) *(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1818,'1818:#123B MAIN MAIN MAIN STREET A789Z','^#?(?<STREET_NUMBER_PRE>\d+[A-Z]*)
+(?<STREET_NAME_PRE>\w+ +\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1819,'1819:#123 NORTH MAIN MAIN STREET ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
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|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(1820,'1820:#123 MAIN MAIN MAIN STREET ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(1821,'1821:123 MAIN MAIN MAIN SUITE 789 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+ +\w+) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1})
*(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1822,'1822:#123 MAIN MAIN MAIN 456 ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+ +\w+) +(?<STREET_UNIT_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(1823,'1823:#123 MAIN MAIN SUITE ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1824,'1824:#123 MAIN MAIN SOUTH ','^#?(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(1901,'1901:JOHN D. SMITH MD FACS ','^(?<MEDPROF_NAME>.*)
+(?<MEDPROF_DEGREE>(MD|PHD|DO|DC|OD)+) *(?:FACS|FACP)? *$');
INSERT INTO ADDRESS_REGEX VALUES(1902,'1902:DR (or DRS) JOHN D. SMITH ','^((?:DR|DRS)+) +(?<MEDPROF_NAME>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(1903,'1903:JOHN D. SMITH M D FACS ','^(?<MEDPROF_NAME>.*) +M +D.*$');
INSERT INTO ADDRESS_REGEX VALUES(2001,'2001:DEPT (or DEPARTMENT) ABC123 ','^(?<DEPARTMENT_TYPE>(DEPT|DEPARTMENT|DPT)+)
*(?<DEPARTMENT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(2002,'2002:#TH PCT|PRECINCT ','^(?<POLICE_PRECINCT>\d+ *(ST|ND|RD|TH){1})
+(?:PCT|PRECINCT).*$');
INSERT INTO ADDRESS_REGEX VALUES(2101,'2101:EB ABC123 STREET (note that EB=EASTBOUND...also captures WB, SB, NB)
','^(?<BOUND_DIR>(EB|SB|WB|NB)+) +(?<STREET_NAME_PRE>.*)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+$');
INSERT INTO ADDRESS_REGEX VALUES(2201,'2201:HOME 123 (note that if this matches the word HOME is removed)
','^(?<HOME_TYPE>(HOME|HME|HM){1}) *(?<HOME_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(2301,'2301:ONE (or TWO, etc.) MAIN STREET
','^(?<CARDINAL_NBR>(ONE|TWO|THREE|FOUR|FIVE|SIX|SEVEN|EIGHT|NINE|TEN|ELEVEN|TWELVE|THIRTEEN|FOURTEEN|FIFTEEN|SIXTEEN|S
EVENTEEN|EIGHTEEN|NINETEEN|TWENTY){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(2302,'2302:ONE WEST 22ND STREET SUITE 123
','^(?<CARDINAL_NBR>(ONE|TWO|THREE|FOUR|FIVE|SIX|SEVEN|EIGHT|NINE|TEN|ELEVEN|TWELVE|THIRTEEN|FOURTEEN|FIFTEEN|SIXTEEN|S
EVENTEEN|EIGHTEEN|NINETEEN|TWENTY){1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\d+ *(ST|ND|RD|TH)+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE|SU|ST|APT|UNIT|NO|UNITS){1}) +(?<STREET_UNIT_NBR>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(2303,'2303:FIRST AVENUE AT|AND|blank ##TH STREET
','^(?<ORDINAL_NBR>(FIRST|SECOND|THIRD|FOURTH|FIFTH|SIXTH|SEVENTH|EIGTH|NINTH|TENTH){1})
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
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VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<INTERSECTION_TERM>(AND|AT|OF)?) +(?<STREET_NAME_POST>\d+ *(?:ST|ND|RD|TH)+)
+(?<STREET_TYPE_POST>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRI
V|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BO
LVD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR
|TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGH
WY|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EX
PRESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON
|CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(2304,'2304:ONE EAST 42ND STREET
','^(?<CARDINAL_NBR>(ONE|TWO|THREE|FOUR|FIVE|SIX|SEVEN|EIGHT|NINE|TEN|ELEVEN|TWELVE|THIRTEEN|FOURTEEN|FIFTEEN|SIXTEEN|S
EVENTEEN|EIGHTEEN|NINETEEN|TWENTY){1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\d+ *(ST|ND|RD|TH)+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
INSERT INTO ADDRESS_REGEX VALUES(2305,'2305:ONE MAIN
','^(?<CARDINAL_NBR>(ONE|TWO|THREE|FOUR|FIVE|SIX|SEVEN|EIGHT|NINE|TEN|ELEVEN|TWELVE|THIRTEEN|FOURTEEN|FIFTEEN|SIXTEEN|S
EVENTEEN|EIGHTEEN|NINETEEN|TWENTY){1}) +(?<STREET_NAME_PRE>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(2306,'2306:ONE MAIN MAIN
','^(?<CARDINAL_NBR>(ONE|TWO|THREE|FOUR|FIVE|SIX|SEVEN|EIGHT|NINE|TEN|ELEVEN|TWELVE|THIRTEEN|FOURTEEN|FIFTEEN|SIXTEEN|S
EVENTEEN|EIGHTEEN|NINETEEN|TWENTY){1}) +(?<STREET_NAME_PRE>\w+ +\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(2307,'2307:ONE MAIN MAIN MAIN STREET
','^(?<CARDINAL_NBR>(ONE|TWO|THREE|FOUR|FIVE|SIX|SEVEN|EIGHT|NINE|TEN|ELEVEN|TWELVE|THIRTEEN|FOURTEEN|FIFTEEN|SIXTEEN|S
EVENTEEN|EIGHTEEN|NINETEEN|TWENTY){1}) +(?<STREET_NAME_PRE>\w+ +\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(2401,'2401:UNIT 123 PO BOX (or DRAWER) ABC123 ','^UNIT +(?<STREET_UNIT_NBR>\d+) +P
*(?:O|0) *(?:BOX|DRAWER) *(?<PO_BOX_NBR>.*) *$');
INSERT INTO ADDRESS_REGEX VALUES(2402,'2402:UNIT 123 ','^UNIT +(?<STREET_UNIT_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(2501,'2501:(123) 456 - 7890 ','^[(]+(?<PHONE_AREACODE>\d{3})[)]+
+(?<PHONE_EXCHANGE>\d{3}) *[- ]*(?<PHONE_NUMBER>\d{4}) *$');
INSERT INTO ADDRESS_REGEX VALUES(2601,'2601:NORTH MAIN STREET
','^(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWE
ST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(2602,'2602:MAIN STREET NORTH ','^ *(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(2603,'2603:ABC STREET ','^(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
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RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(2604,'2604:MAIN MAIN STREET ','^(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(2701,'2701:MEDICAL or HOSPITAL,
etc.','(?<MEDICAL_ENTITY>(MEDICAL|MED|HOSPITAL|HOSP|ORTHO|HEALTH|HLTH|CARE|CHIRO|NURSING|PODIATRY|REPRO|RADIOLOGY|PATHO
LOGY|PROF|VISION|MEMORIAL|VASCULAR|EYE|DERMAT|NEURO|CARDIO|COUNSEL|BEHAV|UROLOG|CLINIC|RADIATION|RADIOLOG|ONCOLOG|DIABE
TES|DIAGNOS|DIAGN|SURGERY|PEDIAT|HEART|PSYCH|AGING|LIPID|IMAGING|AMBULANCE|DIALYSIS|INPATIENT|OUTPATIENT|REHAB|LABORATO
RY|AUDIOLOGY|PHYS|LIMB|OPTICAL|EAR|SPINE|SURGICAL|SURGICENTER|PRACTICE|GASTROENTEROLOGY|OBESITY|ENDOSCOPY|RELIEF|SLEEP|
LABCORP|EPILEPSY|SCOLIOSIS|SPINAL)+)');
INSERT INTO ADDRESS_REGEX VALUES(2801,'2801:123 (assumed SUITE number of 4 or fewer digits...see 2902 below.)
','^(?<EXTRA_INFO_IGNORED>\d{1,4}) *$');
INSERT INTO ADDRESS_REGEX VALUES(2901,'2901:CITY-NAME TWO-LETTER-STATE-CODE FIVE-DIGIT-ZIP-CODE ','^(?<CITY_NAME>\w+)
*(?<STATE_CODE>(AK|AZ|AR|CA|CO|CT|DE|DC|FL|GA|HI|ID|IL|IN|IA|KS|KY|LA|ME|MD|MA|MI|MN|MS|MO|MT|NE|NV|NH|NJ|NM|NY|NC|ND|O
H|OK|OR|PA|RI|SC|SD|TN|TX|UT|VT|VA|WA|WV|WI|WY){1}) *(?<ZIPCODE_5D>\d{5})[-]?(?<ZIPCODE_ADDL>\d{4}) *$');
INSERT INTO ADDRESS_REGEX VALUES(2902,'2902:FIVE-DIGIT-ZIP-CODE ','^(?<ZIPCODE_5D>\d{5})[-]?(?<ZIPCODE_ADDL>\d{4})
*$');
INSERT INTO ADDRESS_REGEX VALUES(2903,'2903:CITY-NAME CITY-NAME2 TWO-LETTER-STATE-CODE FIVE-DIGIT-ZIP-CODE
','^(?<CITY_NAME>\w+ \w+)
*(?<STATE_CODE>(AK|AZ|AR|CA|CO|CT|DE|DC|FL|GA|HI|ID|IL|IN|IA|KS|KY|LA|ME|MD|MA|MI|MN|MS|MO|MT|NE|NV|NH|NJ|NM|NY|NC|ND|O
H|OK|OR|PA|RI|SC|SD|TN|TX|UT|VT|VA|WA|WV|WI|WY){1}) *(?<ZIPCODE_5D>\d{5})[-]?(?<ZIPCODE_ADDL>\d{4}) *$');
INSERT INTO ADDRESS_REGEX VALUES(2904,'2904:CITY-NAME TWO-LETTER-STATE-CODE NINE-DIGIT-ZIP-CODE ','^(?<CITY_NAME>\w+)
*(?<STATE_CODE>(AK|AZ|AR|CA|CO|CT|DE|DC|FL|GA|HI|ID|IL|IN|IA|KS|KY|LA|ME|MD|MA|MI|MN|MS|MO|MT|NE|NV|NH|NJ|NM|NY|NC|ND|O
H|OK|OR|PA|RI|SC|SD|TN|TX|UT|VT|VA|WA|WV|WI|WY){1}) *(?<ZIPCODE_5D>\d{5})[-]?(?<ZIPCODE_ADDL>\d{4}) *$');
INSERT INTO ADDRESS_REGEX VALUES(3001,'3001:UNKNOWN, etc.','(?<UNKNOWN>(UNKNOWN|XXXXXXXXX|XXXXX|XXX|XX)+)');
INSERT INTO ADDRESS_REGEX VALUES(3101,'3101:# MAIN MAIN MAIN MAIN','^(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+
+\w+ +\w +\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(3102,'3102:# MAIN MAIN MAIN ','^(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+ +\w+
+\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(3201,'3201:# AVENUE F NORTHEAST ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+([A-Za-z]{1})
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(3301,'3301:# NORTH MAIN MAIN STREET (REST OF LINE IGNORED)
','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
INSERT INTO ADDRESS_REGEX VALUES(3302,'3302:# NORTH MAIN STREET (REST OF LINE IGNORED) ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
INSERT INTO ADDRESS_REGEX VALUES(3303,'3303:# MAIN STREET (REST OF LINE IGNORED) ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
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TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
INSERT INTO ADDRESS_REGEX VALUES(3304,'3304:# MAIN MAIN STREET (REST OF LINE IGNORED) ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
INSERT INTO ADDRESS_REGEX VALUES(3305,'3305:#E MAIN
','^(?<STREET_NUMBER_PRE>\d+)(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESS
T|SE|SOUTHEAST|NW|NORTHWEST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+) +$');
INSERT INTO ADDRESS_REGEX VALUES(3306,'3306:#MAIN STREET ','^(?<STREET_NUMBER_PRE>\d+)(?<STREET_NAME_PRE>\w{3,})
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+$');
INSERT INTO ADDRESS_REGEX VALUES(3307,'3307:# TH STREET ','^(?<STREET_NUMBER_PRE>\d+ *(ST|ND|RD|TH)+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_EXTENSION>(EXT|EXTENSION){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(3308,'3308:# TH MAIN ','^(?<STREET_NUMBER_PRE>\d+ *(ST|ND|RD|TH){1})
+(?<STREET_NAME_PRE>\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(3309,'3309:15TH AND MAIN MAIN STREET ','^(?<STREET_NAME_PRE>\w+ +AND +\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(3310,'3310:15TH AND MAIN STREET ','^(?<STREET_NAME_PRE>\w+ +AND +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(3311,'3311:15TH AND MAIN ','^(?<STREET_NAME_PRE>\w+ +AND +\w+) *$');
INSERT INTO ADDRESS_REGEX VALUES(3312,'3312:W###### PO BOX # (PHILADELPHIA ONLY!!)','^(?<EXTRA_INFO_IGNORED>W\d+) +P *O
*BOX *(?<PO_BOX_NBR>\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(3313,'3313:W###### PO BOX no box number (PHILADELPHIA
ONLY!!)','^(?<EXTRA_INFO_IGNORED>W\d+) +P *O *BOX *$');
INSERT INTO ADDRESS_REGEX VALUES(3314,'3314:W###### (PHILADELPHIA ONLY!!)','^(?<EXTRA_INFO_IGNORED>W\d+) *$');
INSERT INTO ADDRESS_REGEX VALUES(3315,'3315:#TH STREET AND|AT #TH STREET ','^(?<STREET_NUMBER_PRE>\d+ *(ST|ND|RD|TH)+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<INTERSECTION_TERM>(AND|AT|OF)?) +(?<STREET_NUMBER_POST>\d+ *(ST|ND|RD|TH)+)
+(?<STREET_TYPE_POST>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRI
V|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BO
LVD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR
|TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGH
WY|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EX
```

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PRESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON
|CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(3316,'3316:#TH STREET AND|AT C STREET ','^(?<STREET_NUMBER_PRE>\d+ *(ST|ND|RD|TH)+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<INTERSECTION_TERM>(AND|AT|OF)?) +(?<STREET_NAME_POST>[A-Za-z]{1})
+(?<STREET_TYPE_POST>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRI
V|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BO
LVD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR
|TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGH
WY|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EX
PRESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON
|CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(3317,'3317:C STREET AND|AT #TH STREET ','^(?<STREET_NUMBER_PRE>[A-Za-z]{1})
*(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<INTERSECTION_TERM>(AND|AT|OF)?) +(?<STREET_NUMBER_POST>\d+ *(ST|ND|RD|TH){1})
+(?<STREET_TYPE_POST>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRI
V|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BO
LVD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR
|TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGH
WY|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EX
PRESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON
|CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(3318,'3318:C STREET AND|AT C STREET ','^(?<STREET_NUMBER_PRE>[A-Za-z]{1})
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<INTERSECTION_TERM>(AND|AT|OF)?) +(?<STREET_NUMBER_POST>[A-Za-z]{1})
+(?<STREET_TYPE_POST>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRI
V|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BO
LVD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR
|TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGH
WY|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EX
PRESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON
|CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(3319,'3319:# SOUTH I(for Interstate) # WEST SUITE # ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<INTERSTATE_TYPE>(I|INTERSTATE){1}) +(?<INTERSTATE_NBR>\d+)
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE)+) *(?<STREET_UNIT_NBR>.*) *$');
INSERT INTO ADDRESS_REGEX VALUES(3320,'3320:# SOUTH I(for Interstate) # WEST ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<INTERSTATE_TYPE>(I|INTERSTATE){1}) +(?<INTERSTATE_NBR>\d+)
+(?<STREET_DIR_POST>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST
|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(3321,'3321:# Martin Luther King and variations ','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS)?) +(?:M|MARTIN){1} +(?:L|LUTHER){1} +(?:K|KING){1} +(?:JR)?
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
```

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INSERT INTO ADDRESS_REGEX VALUES(3322,'3322:# SOUTH (CAP|CAPITAL) OF 2-Letter-State-Code STREET SUITE #
','^(?<STREET_NUMBER_PRE>\d+)
+(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWEST|
NE|NORTHEAST|SW|SOUTHWEST|BYPASS)?) +(?<CAPITAL_TYPE>(CAP|CAPITAL){1}) +(?<INTERSECTION_TERM>(AND|AT|OF)?)
+(?<STATE_CODE>(AK|AZ|AR|CA|CO|CT|DE|DC|FL|GA|HI|ID|IL|IN|IA|KS|KY|LA|ME|MD|MA|MI|MN|MS|MO|MT|NE|NV|NH|NJ|NM|NY|NC|ND|O
H|OK|OR|PA|RI|SC|SD|TN|TX|UT|VT|VA|WA|WV|WI|WY)+)
+(?<STREET_TYPE_POST>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRI
V|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BO
LVD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR
|TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGH
WY|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EX
PRESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON
|CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE)+) *(?<STREET_UNIT_NBR>.*) *$');
INSERT INTO ADDRESS_REGEX VALUES(3323,'3323:MAIN STREET MAIN STREET ','^(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_NAME_POST>\w+ +\w+)
+(?<STREET_TYPE_POST>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRI
V|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BO
LVD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR
|TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGH
WY|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EX
PRESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON
|CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(3324,'3324:MSC # PO BOX # ','^MSC *(?<MAIL_STOP_CODE>.*) *P *(?:O|0) *(?:BOX|DRAWER)
*(?<PO_BOX_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(3325,'3325:MSC # # ','^MSC(?<MAIL_STOP_CODE>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(3326,'3326:SOUTH MAIN STREET (extra ignored)
','^(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWE
ST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
INSERT INTO ADDRESS_REGEX VALUES(3327,'3327:SOUTH MAIN MAIN STREET (extra ignored)
','^(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWE
ST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +([A-Za-z]+ +[A-Za-z]+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
INSERT INTO ADDRESS_REGEX VALUES(3328,'3328:SOUTH MAIN MAIN MAIN STREET (extra ignored)
','^(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWE
ST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS){1}) +(?<STREET_NAME_PRE>\w+ +\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
INSERT INTO ADDRESS_REGEX VALUES(3329,'3329:MAIN MAIN STREET (extra ignored) ','^(?<STREET_NAME_PRE>\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
```

```
INSERT INTO ADDRESS_REGEX VALUES(3330,'3330:MAIN MAIN MAIN STREET (extra ignored) ','^(?<STREET_NAME_PRE>\w+ +\w+ +\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
INSERT INTO ADDRESS_REGEX VALUES(3331,'3331:Martin Luther King and variations ','^(?<STREET_NUMBER_PRE>\d+)
+(?:DR|DOCTOR)? +(?:M|MARTIN){1} +(?:L|LUTHER){1} +(?:K|KING){1} +(?:JR)?
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1}).
*$');
INSERT INTO ADDRESS_REGEX VALUES(3401,'3401:123MAINSTREET ','^(?<STREET_NUMBER_PRE>\d+) *(?<STREET_NAME_PRE>\w+)
*(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(3402,'3402:123MAINSTREETSTE123ABC ','^(?<STREET_NUMBER_PRE>\d+)
*(?<STREET_NAME_PRE>\w+)
*(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE){1}) *(?<STREET_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(3501,'3501:BLAH ELEM|HIGH|MIDDLE SCHOOL|SCHL ','^(?<SCHOOL_NAME>.*)
*(?<SCHOOL_TYPE>(ELEM|ELEMENTARY|HIGH|MIDDLE){1}) *(?:SCHOOL|SCHL){1} *$');
INSERT INTO ADDRESS_REGEX VALUES(3502,'3502:BLAH ELEM|ELEMENTARY|HIGH|MIDDLE ','^(?<SCHOOL_NAME>.*)
*(?<SCHOOL_TYPE>(ELEM|ELEMENTARY|HIGH|MIDDLE){1}) *$');
INSERT INTO ADDRESS_REGEX VALUES(3601,'3601:NORTH 123 MAIN STREET MAIN
STREET','^(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|N
ORTHWEST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS)?) +(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_NAME_POST>\w+)
+(?<STREET_TYPE_POST>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRI
V|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BO
LVD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR
|TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGH
WY|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EX
PRESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON
|CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(3602,'3602:NORTH 123 MAIN STREET SUITE 123
','^(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWE
ST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS)?) +(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
+(?<STREET_UNIT_TYPE>(SUITE|SUTIE|SUIT|SUI|STE){1}) *(?<STREET_UNIT_NBR>.*)$');
INSERT INTO ADDRESS_REGEX VALUES(3603,'3603:NORTH 123 MAIN STREET
','^(?<STREET_DIR_PRE>(N|NO|NORT|NORTH|NORHT|NRTH|S|SO|SOU|SOUT|SOUTH|SOUHT|E|EAST|W|WEST|WESST|SE|SOUTHEAST|NW|NORTHWE
ST|NE|NORTHEAST|SW|SOUTHWEST|BYPASS)?) +(?<STREET_NUMBER_PRE>\d+) +(?<STREET_NAME_PRE>\w+)
+(?<STREET_TYPE_PRE>(ST|STREETS|STREET|STREE|STEET|STREEET|STRET|STRE|STS|STR|PL|PLC|PLACE|PLAC|PLA|DR|DRIVE|DRVIE|DRIV
```

```
|DRI|DRV|XDRIVE|XRIVE|DR|BL|BLLVD|BLVD|BVLD|BLVE|BVD|BOULEVARD|BOULVARD|BOULEVAR|BOULEVA|BOULEV|BOULE|BOUL|BLDV|BLV|BOL
VD|CIR|CIRC|CIRCL|CIRCLE|CR|SQ|SQU|SQUARE|SQUAR|CT|COURT|AV|AVE|AVR|AVEN|AVER|AVENU|AVENUE|RD|ROAD|ROA|RO|RAOD|ROAJ|TR|
TRAIL|PLZ|PLAZ|PLAZA|LN|LANE|LA|PKWY|PARKWAY|PARKWA|PKY|PKW|PRKWY|PKKWY|PKWYA|PARKW|PRWY|PW|HIGHWAY|HWY|HGWY|HIGHW|HGHW
Y|HY|WAY|WY|PK|PARK|FWY|FRWY|FREEWAY|BEND|PIKE|PK|LOOP|LOO|TURNPIKE|TURNPIK|TURNPI|TRNPKE|TRNPK|TURNP|TPKE|TRNP|TPK|EXP
RESSWAY|EXPRESSW|EXPRESS|EXPRE|EXPWY|EXPRY|EXPY|EXP|COVE|TERRACE|TERRAC|TRL|TER|TERR|TE|PATH|WK|XING|HILLS|HILL|CANYON|
CYN|CROSSING|CROSSI|CORNER|POINTE|POINT|CAUSEWAY|CUASEWAY|CSWY|LINE|TOWERS|TOWER|VIA|OVAL|HEIGHTS|HEIGH|HIGHT|HTS){1})
*$');
INSERT INTO ADDRESS_REGEX VALUES(3701,'3701:WALMART,
etc.','(?<BUSINESS_NAME>(MCDONALDS|TARGET|WALMART|BURGER|PUB|CHOPPER|RESTAURANT|SHOP|SHOPPE|HOTEL|MOTEL|KITCHEN|INN|PIZ
ZA|CORP|BANK|GYM|FITNESS|SHOPP|KMART|SUNOCO|BORGATA|CLARIDGE|HILTON|MAHAL)+)');
```

APPENDIX B – Abbreviation Clean Mapping

This appendix contains the database inserts into the `ABBREVIATION_CLEAN_MAP` table that will hold the mappings between the abbreviations or misspellings to the clean spelling. For example, ST is mapped to street, and CIR is mapped to CIRCLE, and so on.

```
CREATE TABLE ABBREVIATION_CLEAN_MAP(CATEGORY_ID INT,DIRTY_TEXT VARCHAR(50),CLEAN_TEXT VARCHAR(50));
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'AA','GOVERNMENT PO - ASIA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'AE','GOVERNMENT PO - EUROPE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'AK','ALASKA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'AL','ALABAMA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'AP','GOVERNMENT PO - PACIFIC');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'AR','ARKANSAS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'AS','AMERICAN SOMOA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'AZ','ARIZONA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'CA','CALIFORNIA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'CO','COLORADO');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'CT','CONNECTICUT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'DC','DISTRICT OF COLUMBIA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'DE','DELAWARE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'FL','FLORIDA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'FM','FEDERATED STATES OF MICRONESIA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'GA','GEORGIA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'GU','GUAM');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'HI','HAWAII');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'IA','IOWA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'ID','IDAHO');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'IL','ILLINOIS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'IN','INDIANA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'KS','KANSAS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'KY','KENTUCKY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'LA','LOUISIANA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'MA','MASSACHUSETTS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'MD','MARYLAND');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'ME','MAINE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'MH','MARSHALL ISLANDS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'MI','MICHIGAN');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'MN','MINNESOTA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'MO','MISSOURI');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'MP','MARIANA ISLANDS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'MS','MISSISSIPPI');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'MT','MONTANA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'NC','NORTH CAROLINA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'ND','NORTH DAKOTA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'NE','NEBRASKA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'NH','NEW HAMPSHIRE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'NJ','NEW JERSEY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'NM','NEW MEXICO');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'NV','NEVADA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'NY','NEW YORK');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'OH','OHIO');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'OK','OKLAHOMA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'OR','OREGON');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'PA','PENNSYLVANIA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'PR','PUERTO RICO');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'PW','KOROR REPUBLIC OF PALAU');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'RI','RHODE ISLAND');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'SC','SOUTH CAROLINA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'SD','SOUTH DAKOTA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'TN','TENNESSEE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'TX','TEXAS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'UT','UTAH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'VA','VIRGINIA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'VI','VIRGIN ISLANDS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'VT','VERMONT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'WA','WASHINGTON');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'WI','WISCONSIN');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'WV','WEST VIRGINIA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(0,'WY','WYOMING');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'N','NORTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'NO','NORTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'NRTH','NORTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'NORT','NORTH');
```

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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'NORHT','NORTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'NORTH','NORTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'S','SOUTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'SO','SOUTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'SOU','SOUTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'SOUT','SOUTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'SOUHT','SOUTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'SOUTH','SOUTH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'E','EAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'EST','EAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'EAS','EAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'EAST','EAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'W','WEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'WESST','WEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'WE','WEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'WES','WEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'WESTE','WEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'WS','WEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'WEST','WEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'SE','SOUTHEAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'S E','SOUTHEAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'SOUTHEAST','SOUTHEAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'NW','NORTHWEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'N W','NORTHWEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'NORTHWEST','NORTHWEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'NE','NORTHEAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'N E','NORTHEAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'NORTE','NORTHEAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'NORTHEAST','NORTHEAST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'SW','SOUTHWEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'S W','SOUTHWEST');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'SOUTHWEST','SOUTHWEST');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(1,'BYPASS','BYPASS');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'STEET','STREET'  );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'STREEET','STREET'  );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'STRET','STREET'  );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'STRE','STREET'  );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'STR','STREET'  );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'STREET','STREET'  );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'STS','STREETS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'STREETS','STREETS');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PLC','PLACE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PLAC','PLACE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PLA','PLACE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PLACE','PLACE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'DR','DRIVE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'DRVIE','DRIVE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'DRIV','DRIVE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'DRI','DRIVE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'DRV','DRIVE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'XDRIVE','DRIVE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'XRIVE','DRIVE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'DRIVE','DRIVE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BL','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BLLVD','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BLVD','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BVLD','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BLVE','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BVD','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BOULVARD','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BOULEVAR','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BOULEVA','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BOULEV','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BOULE','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BOUL','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BLDV','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BLV','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'BOULEVARD','BOULEVARD');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CIR','CIRCLE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CIRC','CIRCLE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CIRCL','CIRCLE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CR','CIRCLE');
```

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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CIRCLE','CIRCLE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'SQ','SQUARE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'SQU','SQUARE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'SQUAR','SQUARE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'SQUARE','SQUARE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CT','COURT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'COURT','COURT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'AV','AVENUE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'AVE','AVENUE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'AVR','AVENUE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'AVEN','AVENUE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'AVER','AVENUE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'AVENU','AVENUE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'AVENUE','AVENUE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'RD','ROAD' );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'ROA','ROAD' );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'RO','ROAD' );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'RAOD','ROAD' );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'ROAJ','ROAD' );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'ROAD','ROAD' );
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TRAIL','TRAIL');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PLZ','PLAZA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PLAZ','PLAZA');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PLAZA','PLAZA');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'LA','LANE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'LANE','LANE');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PKY','PARKWAY');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PRKWY','PARKWAY');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'HGHWY','HIGHWAY');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'HIGHWAY','HIGHWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'WY','WAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'WAY','WAY');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'FREEWAY','FREEWAY');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PK','PIKE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'PIKE','PIKE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'LO','LOOP');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'LOO','LOOP');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'LOP','LOOP');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'LOOP','LOOP');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TURNPIK','TURNPIKE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TURNPI','TURNPIKE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TRNPKE','TURNPIKE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TRNPK','TURNPIKE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TURNP','TURNPIKE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TPKE','TURNPIKE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TRNP','TURNPIKE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TPK','TURNPIKE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TURNPIKE','TURNPIKE');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'EXPRESS','EXPRESSWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'EXPRE','EXPRESSWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'EXPWY','EXPRESSWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'EXPRY','EXPRESSWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'EXPY','EXPRESSWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'EXP','EXPRESSWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'EXPRESSWAY','EXPRESSWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'COVE','COVE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TERRAC','TERRACE');
```

```
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TRL','TERRACE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TER','TERRACE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TERR','TERRACE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TE','TERRACE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'TERRACE','TERRACE');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'WLK','WALK');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'WAL','WALK');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'WALK','WALK');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'XING','CROSSING');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CROSSI','CROSSING');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CROSSING','CROSSING');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CORNER','CORNER');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CONRER','CORNER');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'COR','CORNER');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'POINT','POINT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'POIN','POINT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'POINTE','POINTE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CAUSEWAY','CAUSEWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CUASEWAY','CAUSEWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CSWY','CAUSEWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'LINE','LINE');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'HILL','HILL');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'HIL','HILL');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'HI','HILL');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CANYON','CANYON');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'CYN','CANYON');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'HEIGHTS','HEIGHTS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'HEIGH','HEIGHTS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'HIGHT','HEIGHTS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(2,'HTS','HEIGHTS');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'SUITE','SUITE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'SUTIE','SUITE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'SUIT','SUITE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'SUI','SUITE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'STE','SUITE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'SU','SUITE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'ST','SUITE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'APT','APARTMENT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'APARTMENT','APARTMENT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'UNIT','UNIT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'UNITS','UNIT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'NO','NUMBER');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(3,'NUMBER','NUMBER');
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INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(4,'BUIDING','BUILDING');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(4,'BLDG','BUILDING');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(4,'BDG','BUILDING');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(4,'BLD','BUILDING');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(4,'BLG','BUILDING');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(5,'FL00R','FLOOR');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(5,'FLOO','FLOOR');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(5,'FLO','FLOOR');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(5,'FLR','FLOOR');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(5,'FL','FLOOR');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(5,'FLOOR','FLOOR');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(5,'LEVEL','LEVEL');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(5,'LVL','LEVEL');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(6,'DEPT','DEPARTMENT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(6,'DEPARTMENT','DEPARTMENT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(6,'DPT','DEPARTMENT');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(7,'HIGHWAY','HIGHWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(7,'HWY','HIGHWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(7,'HGWY','HIGHWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(7,'HIGHW','HIGHWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(7,'HGHWY','HIGHWAY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(8,'EB','EASTBOUND' );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(8,'EASTBOUND','EASTBOUND' );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(8,'SB','SOUTHBOUND');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(8,'SOUTHBOUND','SOUTHBOUND' );
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(8,'WB','WESTBOUND');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(8,'WESTBOUND','WESTBOUND');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(8,'NB','NORTHBOUND');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(8,'NORTHBOUND','NORTHBOUND');
```

```
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(9,'CAP','CAPITAL');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(9,'CAPITAL','CAPITAL');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(9,'CAPITOL','CAPITOL');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(10,'I','INTERSTATE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(10,'INTERSTATE','INTERSTATE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(11,'ROUTE','ROUTE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(11,'RTE','ROUTE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(11,'RR','ROUTE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(11,'RT','ROUTE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(11,'SR','ROUTE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(11,'US ROUTE','U.S. ROUTE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(12,'ELEMENTARY','ELEMENTARY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(12,'ELEM','ELEMENTARY');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(12,'HIGH','HIGH');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(12,'MIDDLE','MIDDLE');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(13,'EXT','EXTENSION');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(13,'EXTENSION','EXTENSION');
INSERT INTO ABBREVIATION_CLEAN_MAP VALUES(13,'EXTENTION','EXTENSION');
```

APPENDIX C – SQL Code to Create the OutputData Table

This appendix contains SQL Code needed to create the output dataset OutputData in the database.

```
DROP TABLE OutputData;
CREATE TABLE OutputData (
   ROWID INT,
   ADDRESS1 VARCHAR(50),
    CLEAN_ADDRESS VARCHAR(200),
    REGEX_MATCH_DESC VARCHAR(100),
    REGEX_MATCH_ID INT,
    BOUND_DIR VARCHAR(100),
    BUILDING_UNIT VARCHAR(100),
    BUILDING_UNIT_NBR VARCHAR(100),
    BUSINESS_NAME VARCHAR(100),
    CAPITAL_TYPE VARCHAR(100),
    CARDINAL_NBR VARCHAR(100),
    CITY_NAME VARCHAR(100),
    CLIA_ID_NBR VARCHAR(100),
    DEPARTMENT_NBR VARCHAR(100),
    DEPARTMENT_TYPE VARCHAR(100),
    EXTRA_INFO_IGNORED VARCHAR(100),
    FILE_NBR VARCHAR(100),
    HIGHWAY_NBR VARCHAR(100),
    HIGHWAY_TYPE VARCHAR(100),
    HOME_NBR VARCHAR(100),
    HOME_TYPE VARCHAR(100),
    INTERSECTION_TERM VARCHAR(100),
    INTERSTATE_NBR VARCHAR(100),
    INTERSTATE_TYPE VARCHAR(100),
    LEVEL_NBR VARCHAR(100),
    LEVEL_TYPE VARCHAR(100),
    MAIL_STOP_CODE VARCHAR(100),
    MEDICAL_ENTITY VARCHAR(100),
    MEDPROF_DEGREE VARCHAR(100),
    MEDPROF_NAME VARCHAR(100),
    ORDINAL_NBR VARCHAR(100),
    PHONE_AREACODE VARCHAR(100),
    PHONE_EXCHANGE VARCHAR(100),
    PHONE_NUMBER VARCHAR(100),
    POLICE_PRECINCT VARCHAR(100),
    PO_BOX_NBR VARCHAR(100),
    ROOM_NBR VARCHAR(100),
    ROUTE_NBR VARCHAR(100),
    ROUTE_TYPE VARCHAR(100),
    SCHOOL_NAME VARCHAR(100),
    SCHOOL_TYPE VARCHAR(100),
    STATE_CODE VARCHAR(100),
    STREET_DIR_POST VARCHAR(100),
    STREET_DIR_PRE VARCHAR(100),
    STREET_EXTENSION VARCHAR(100),
    STREET_NAME_POST VARCHAR(100),
    STREET_NAME_PRE VARCHAR(100),
    STREET_NUMBER_POST VARCHAR(100),
    STREET_NUMBER_PRE VARCHAR(100),
    STREET_TYPE_POST VARCHAR(100),
    STREET_TYPE_PRE VARCHAR(100),
    STREET_UNIT_NBR VARCHAR(100),
    STREET_UNIT_TYPE VARCHAR(100),
    TAX_ID_NBR VARCHAR(100),
    UNKNOWN VARCHAR(100),
    UPIN_ID_NBR VARCHAR(100),
    ZIPCODE_5D VARCHAR(100),
    ZIPCODE_ADDL VARCHAR(100)
);
```

APPENDIX D – Address Cleaning C# Program

This appendix contains C# address cleaning code.

```
using System;
using System.IO;
using System.Data;
using System.Data.SqlClient;
using System.Collections.Generic;
using System.Text.RegularExpressions;

/// <summary>This class contains the code used to clean the addresses presented to it.</summary>
public sealed class AddressClean {

 /// <summary>This structure contains a placeholder for each cleaning dictionary as well as the
dictionary itself.</summary>
 private struct AbbrevStruct {

  /// <summary>This member contains the category identification number of the clean mapping.</summary>
  public Int32 iCATID;

  /// <summary>This member contains an instantiation of the clean mapping dictionary.</summary>
  public Dictionary<String,String> dCLEANMAP;

 }

 /// <summary>This structure contains a placeholder for a regular expression Regex object as well as a
descriptive text string.</summary>
 private struct RegexStruct {

  /// <summary>This member contains the identification number of the regular expression.</summary>
  public Int32 iREID;

  /// <summary>This member contains descriptive text of the regular expression.</summary>
  public String sDESC;

  /// <summary>This member contains an instantiation of a Regex object.</summary>
  public Regex oRE;

 }

 /// <summary>This field contains an AbbrevStruct for each cleaning category identification
number.</summary>
 private AbbrevStruct[] sAS;

 /// <summary>This field contains a RegexStruct for each regular expression used in the
program.</summary>
 private RegexStruct[] sRE;

 /// <summary>This field contains the name of the data table within the dataset that is to be used as
input data.</summary>
 private String sInputTableName;

 /// <summary>This field contains the name of the column within the input data table within the dataset
containing the unique row ID.</summary>
 private String sInputUniqueRowID;

 /// <summary>This field contains the name of the column within the input data table within the dataset
containing the addresses to be cleaned.</summary>
 private String sInputAddressColumnName;

 /// <summary>This field contains the input dataset.</summary>
 private DataSet dsInputDataset;

 /// <summary>This field contains the regular expression to clean punctuation marks.</summary>
 Regex oRE_PUNC = new Regex(@"(\p{P}|[$^|=+`~><])");

 /// <summary>This field contains the regular expression to remove duplicate blanks.</summary>
 Regex oRE_BLANKS = new Regex(@"[ ]{2,}");

 /// <summary>This field contains the regular expression to remove leading blanks.</summary>
 Regex oRE_LEAD = new Regex(@"^\s+");

 /// <summary>This field contains the regular expression to remove trailing blanks.</summary>
```

```
 Regex oRE_TRAL = new Regex(@"\s+$");

 /// <summary>This is the sole constructor for the AddressClean class.</summary>
 /// <param name="pInputDataset">This parameter contains the incoming data as a Dataset.</param>
 /// <param name="pInputTableName">This parameter contains the name of the data table within the dataset
that is to be used as input data.</param>
 /// <param name="pInputAddressColumnName">This parameter contains the name of the column within the
input data table within the dataset containing the addresses to be cleaned.</param>
 public AddressClean(DataSet pInputDataset,String pInputTableName,String pInputUniqueRowID,String
pInputAddressColumnName) {

  sInputTableName = pInputTableName;
  sInputUniqueRowID = pInputUniqueRowID;
  sInputAddressColumnName = pInputAddressColumnName;
  dsInputDataset = pInputDataset;

  //Instantiate the regular expressions into the field sRE.
  SetupRegex();

  //Create the output data table from the input data table along with additional fields
  CreateOutputTable();

  //Load the cleaning dictionaries.
  LoadCleaningDictionaries();

  //Bump up data against the regular expressions and parse out the matched fields
  CleanAddressField();

  //Printout the data in the tables
  //Console.WriteLine("\n\n\nName of Input Data Table: {0}.",sInputTableName);
  //Console.WriteLine("Unique ID in Input Data Table: {0}.",sInputUniqueRowID);
  //Console.WriteLine("Address column in Input Data Table: {0}.",sInputAddressColumnName);
  //Console.WriteLine("The number of tables in the dataset is: {0}.",dsInputDataset.Tables.Count);
  //foreach(DataTable dtThisTable in dsInputDataset.Tables) {
  // Console.Write("DataTable={0}\n",dtThisTable.TableName);
  // foreach(DataRow drThisRow in dtThisTable.Rows) {
  //  Console.Write("\t");
  //  foreach(DataColumn dtThisColumn in dtThisTable.Columns) {
  //   Console.Write("{0} ",drThisRow[dtThisColumn]);
  //  }
  //  Console.WriteLine();
  // }
  //}

 }

 /// <summary>This subroutine loads the dictionaries with the abbreviation mappings.</summary>
 private void LoadCleaningDictionaries() {

  Int32 indx = 0;

  //Instantiate each cleaning dictionary and place it in sAS.
  sAS = new AbbrevStruct[14];
  for(Int32 idx=0;idx<14;idx++) {
   sAS[idx].dCLEANMAP = new Dictionary<String,String>();
  }

  //Load the dictionaries from the data in the databas table ABBREVIATION_CLEAN_MAP.
  String sConn = @"Data Source=SCOTT-PC\SQLTEST;Initial Catalog=TESTDB;Integrated Security=SSPI;";
  using (SqlConnection oConn = new SqlConnection(sConn)) {

   oConn.Open();
   SqlCommand oCmd = new SqlCommand("SELECT CATEGORY_ID,DIRTY_TEXT,CLEAN_TEXT FROM
ABBREVIATION_CLEAN_MAP ORDER BY CATEGORY_ID",oConn);
   SqlDataReader oRdr = oCmd.ExecuteReader();
   while(oRdr.Read()) {
    indx = (Int32) oRdr["CATEGORY_ID"];
    sAS[indx].iCATID = indx;
    try {
     sAS[indx].dCLEANMAP.Add((String) oRdr["DIRTY_TEXT"],(String) oRdr["CLEAN_TEXT"]);
    }
    catch {
     Console.WriteLine("Duplicate Dictionary Value: {0},{1}",(String) oRdr["DIRTY_TEXT"],(String)
oRdr["CLEAN_TEXT"]);
     throw;
    }
```

```
    indx++;
   }
   oRdr.Close();

  }

 }

 /// <summary>This subroutine pre-processses the address field to: (1) upper-case the address, (2)
remove punctuation, (3) remove duplicate blanks, (4) compress " N W ", etc., and (5) remove leading and
trailing blanks.</summary>
 private String PreProcessAddress(String pADDRESS) {

  // Uppercase the address
  pADDRESS = pADDRESS.ToUpper();

  // Remove punctuation from the names
  pADDRESS = oRE_PUNC.Replace(pADDRESS,"");

  // Compress the blanks
  pADDRESS = oRE_BLANKS.Replace(pADDRESS," ");

  // Remove leading blanks
  pADDRESS = oRE_LEAD.Replace(pADDRESS,"");

  // Remove trailing blanks
  pADDRESS = oRE_TRAL.Replace(pADDRESS,"");

  // Fix broken direction indicators
  pADDRESS = pADDRESS.Replace(" N W "," NW ");
  pADDRESS = pADDRESS.Replace(" N E "," NE ");
  pADDRESS = pADDRESS.Replace(" S W "," SW ");
  pADDRESS = pADDRESS.Replace(" S E "," SE ");

  return(pADDRESS);

 }

 /// <summary>This subroutine post-processes soem of the fields in order to clean up abbreviated or
misspelled text.</summary>
 private String PostProcess(Int32 Category_ID,String pTEXT) {

  String sCLEAN_TEXT;

  if (sAS[Category_ID].dCLEANMAP.TryGetValue(pTEXT,out sCLEAN_TEXT)) {
   return(sCLEAN_TEXT);
  }

  return(pTEXT);
 }

 /// <summary>This subroutine performs the address cleaning.</summary>
 private void CleanAddressField() {

  String sADDRESS;
  Match oMatch;
  GroupCollection oGrpColl;

  //For each row in the OutputData (which contains all of the rows of the input data), match against the
regular expressions.
  foreach(DataRow drThisRow in dsInputDataset.Tables["OutputData"].Rows) {

   //Get this row's address
   sADDRESS = (String) drThisRow[sInputAddressColumnName];

   //Pre-Process the address field.
   sADDRESS=PreProcessAddress(sADDRESS);

   //Run through all of the regular expressions, hopefully finding a match.
   for(Int32 indx=0;indx<sRE.Length;indx++) {

    //Initialize this row`s REGEX_MATCH_DESC to "0000:NO MATCH FOUND" and REGEX_MATCH_ID to 0.
    if (indx == 0) {
     drThisRow["REGEX_MATCH_DESC"]="0000:NO MATCH FOUND";
     drThisRow["REGEX_MATCH_ID"]=0;
```

```
}

//Determine if there is a match with the current iteration`s regular expression.
oMatch = sRE[indx].oRE.Match(sADDRESS);
if (oMatch.Success) {

 //Gather the capture groups for this match.
 oGrpColl = oMatch.Groups;

 //Update the REGEX_MATCH_DESC field with this match`s regular expression description.
 drThisRow["REGEX_MATCH_DESC"]=sRE[indx].sDESC;

 //Update the REGEX_MATCH_ID field with this match`s regular expression identification number.
 drThisRow["REGEX_MATCH_ID"]=sRE[indx].iREID;

//Update the additional rows of data related to the match.
 if ( sRE[indx].oRE.ToString().Contains("<BOUND_DIR>") ) {
  drThisRow["BOUND_DIR"]=PostProcess(8,oGrpColl["BOUND_DIR"].Captures[0].Value);
 }
 if ( sRE[indx].oRE.ToString().Contains("<BUILDING_UNIT>") ) {
  drThisRow["BUILDING_UNIT"]=PostProcess(4,oGrpColl["BUILDING_UNIT"].Captures[0].Value);
 }
 if ( sRE[indx].oRE.ToString().Contains("<BUILDING_UNIT_NBR>") ) {
  drThisRow["BUILDING_UNIT_NBR"]=oGrpColl["BUILDING_UNIT_NBR"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<BUSINESS_NAME>") ) {
  drThisRow["BUSINESS_NAME"]=oGrpColl["BUSINESS_NAME"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<CAPITAL_TYPE>") ) {
  drThisRow["CAPITAL_TYPE"]=PostProcess(9,oGrpColl["CAPITAL_TYPE"].Captures[0].Value);
 }
 if ( sRE[indx].oRE.ToString().Contains("<CARDINAL_NBR>") ) {
  drThisRow["CARDINAL_NBR"]=oGrpColl["CARDINAL_NBR"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<CITY_NAME>") ) {
  drThisRow["CITY_NAME"]=oGrpColl["CITY_NAME"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<CLIA_ID_NBR>") ) {
  drThisRow["CLIA_ID_NBR"]=oGrpColl["CLIA_ID_NBR"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<DEPARTMENT_NBR>") ) {
   drThisRow["DEPARTMENT_NBR"]=oGrpColl["DEPARTMENT_NBR"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<DEPARTMENT_TYPE>") ) {
  drThisRow["DEPARTMENT_TYPE"]=PostProcess(6,oGrpColl["DEPARTMENT_TYPE"].Captures[0].Value);
 }
 if ( sRE[indx].oRE.ToString().Contains("<EXTRA_INFO_IGNORED>") ) {
  drThisRow["EXTRA_INFO_IGNORED"]=oGrpColl["EXTRA_INFO_IGNORED"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<FILE_NBR>") ) {
  drThisRow["FILE_NBR"]=oGrpColl["FILE_NBR"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<HIGHWAY_NBR>") ) {
  drThisRow["HIGHWAY_NBR"]=oGrpColl["HIGHWAY_NBR"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<HIGHWAY_TYPE>") ) {
  drThisRow["HIGHWAY_TYPE"]=PostProcess(2,oGrpColl["HIGHWAY_TYPE"].Captures[0].Value);
 }
 if ( sRE[indx].oRE.ToString().Contains("<HOME_NBR>") ) {
  drThisRow["HOME_NBR"]=oGrpColl["HOME_NBR"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<HOME_TYPE>") ) {
  drThisRow["HOME_TYPE"]=oGrpColl["HOME_TYPE"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<INTERSECTION_TERM>") ) {
  drThisRow["INTERSECTION_TERM"]=oGrpColl["INTERSECTION_TERM"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<INTERSTATE_NBR>") ) {
   drThisRow["INTERSTATE_NBR"]=oGrpColl["INTERSTATE_NBR"].Captures[0].Value;
 }
 if ( sRE[indx].oRE.ToString().Contains("<INTERSTATE_TYPE>") ) {
  drThisRow["INTERSTATE_TYPE"]=PostProcess(10,oGrpColl["INTERSTATE_TYPE"].Captures[0].Value);
 }
 if ( sRE[indx].oRE.ToString().Contains("<LEVEL_NBR>") ) {
  drThisRow["LEVEL_NBR"]=oGrpColl["LEVEL_NBR"].Captures[0].Value;
 }
```

```
if ( sRE[indx].oRE.ToString().Contains("<LEVEL_TYPE>") ) {
 drThisRow["LEVEL_TYPE"]=PostProcess(5,oGrpColl["LEVEL_TYPE"].Captures[0].Value);
}
if ( sRE[indx].oRE.ToString().Contains("<MAIL_STOP_CODE>") ) {
 drThisRow["MAIL_STOP_CODE"]=oGrpColl["MAIL_STOP_CODE"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<MEDICAL_ENTITY>") ) {
 drThisRow["MEDICAL_ENTITY"]=oGrpColl["MEDICAL_ENTITY"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<MEDPROF_DEGREE>") ) {
 drThisRow["MEDPROF_DEGREE"]=oGrpColl["MEDPROF_DEGREE"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<MEDPROF_NAME>") ) {
 drThisRow["MEDPROF_NAME"]=oGrpColl["MEDPROF_NAME"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<ORDINAL_NBR>") ) {
 drThisRow["ORDINAL_NBR"]=oGrpColl["ORDINAL_NBR"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<PHONE_AREACODE>") ) {
 drThisRow["PHONE_AREACODE"]=oGrpColl["PHONE_AREACODE"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<PHONE_EXCHANGE>") ) {
 drThisRow["PHONE_EXCHANGE"]=oGrpColl["PHONE_EXCHANGE"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<PHONE_NUMBER>") ) {
 drThisRow["PHONE_NUMBER"]=oGrpColl["PHONE_NUMBER"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<POLICE_PRECINCT>") ) {
 drThisRow["POLICE_PRECINCT"]=oGrpColl["POLICE_PRECINCT"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<PO_BOX_NBR>") ) {
 drThisRow["PO_BOX_NBR"]=oGrpColl["PO_BOX_NBR"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<ROOM_NBR>") ) {
 drThisRow["ROOM_NBR"]=oGrpColl["ROOM_NBR"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<ROUTE_NBR>") ) {
 drThisRow["ROUTE_NBR"]=oGrpColl["ROUTE_NBR"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<ROUTE_TYPE>") ) {
 drThisRow["ROUTE_TYPE"]=PostProcess(11,oGrpColl["ROUTE_TYPE"].Captures[0].Value);
}
if ( sRE[indx].oRE.ToString().Contains("<SCHOOL_NAME>") ) {
 drThisRow["SCHOOL_NAME"]=oGrpColl["SCHOOL_NAME"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<SCHOOL_TYPE>") ) {
 drThisRow["SCHOOL_TYPE"]=PostProcess(12,oGrpColl["SCHOOL_TYPE"].Captures[0].Value);
}
if ( sRE[indx].oRE.ToString().Contains("<STATE_CODE>") ) {
 drThisRow["STATE_CODE"]=PostProcess(0,oGrpColl["STATE_CODE"].Captures[0].Value);
}
if ( sRE[indx].oRE.ToString().Contains("<STREET_DIR_POST>") ) {
 drThisRow["STREET_DIR_POST"]=PostProcess(1,oGrpColl["STREET_DIR_POST"].Captures[0].Value);
}
if ( sRE[indx].oRE.ToString().Contains("<STREET_DIR_PRE>") ) {
 drThisRow["STREET_DIR_PRE"]=PostProcess(1,oGrpColl["STREET_DIR_PRE"].Captures[0].Value);
}
if ( sRE[indx].oRE.ToString().Contains("<STREET_EXTENSION>") ) {
 drThisRow["STREET_EXTENSION"]=PostProcess(13,oGrpColl["STREET_EXTENSION"].Captures[0].Value);
}
if ( sRE[indx].oRE.ToString().Contains("<STREET_NAME_POST>") ) {
 drThisRow["STREET_NAME_POST"]=oGrpColl["STREET_NAME_POST"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<STREET_NAME_PRE>") ) {
 drThisRow["STREET_NAME_PRE"]=oGrpColl["STREET_NAME_PRE"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<STREET_NUMBER_POST>") ) {
 drThisRow["STREET_NUMBER_POST"]=oGrpColl["STREET_NUMBER_POST"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<STREET_NUMBER_PRE>") ) {
 drThisRow["STREET_NUMBER_PRE"]=oGrpColl["STREET_NUMBER_PRE"].Captures[0].Value;
}
if ( sRE[indx].oRE.ToString().Contains("<STREET_TYPE_POST>") ) {
 drThisRow["STREET_TYPE_POST"]=PostProcess(2,oGrpColl["STREET_TYPE_POST"].Captures[0].Value);
}
if ( sRE[indx].oRE.ToString().Contains("<STREET_TYPE_PRE>") ) {
```

```
      drThisRow["STREET_TYPE_PRE"]=PostProcess(2,oGrpColl["STREET_TYPE_PRE"].Captures[0].Value);
     }
     if ( sRE[indx].oRE.ToString().Contains("<STREET_UNIT_NBR>") ) {
      drThisRow["STREET_UNIT_NBR"]=oGrpColl["STREET_UNIT_NBR"].Captures[0].Value;
     }
     if ( sRE[indx].oRE.ToString().Contains("<STREET_UNIT_TYPE>") ) {
      drThisRow["STREET_UNIT_TYPE"]=PostProcess(3,oGrpColl["STREET_UNIT_TYPE"].Captures[0].Value);
     }
     if ( sRE[indx].oRE.ToString().Contains("<TAX_ID_NBR>") ) {
      drThisRow["TAX_ID_NBR"]=oGrpColl["TAX_ID_NBR"].Captures[0].Value;
     }
     if ( sRE[indx].oRE.ToString().Contains("<UNKNOWN>") ) {
      drThisRow["UNKNOWN"]=oGrpColl["UNKNOWN"].Captures[0].Value;
     }
     if ( sRE[indx].oRE.ToString().Contains("<UPIN_ID_NBR>") ) {
      drThisRow["UPIN_ID_NBR"]=oGrpColl["UPIN_ID_NBR"].Captures[0].Value;
     }
     if ( sRE[indx].oRE.ToString().Contains("<ZIPCODE_5D>") ) {
      drThisRow["ZIPCODE_5D"]=oGrpColl["ZIPCODE_5D"].Captures[0].Value;
     }
     if ( sRE[indx].oRE.ToString().Contains("<ZIPCODE_ADDL>") ) {
      drThisRow["ZIPCODE_ADDL"]=oGrpColl["ZIPCODE_ADDL"].Captures[0].Value;
     }

     //Create the clean address
     drThisRow["CLEAN_ADDRESS"] = (String) drThisRow["STREET_NUMBER_PRE"] + " "
                                + (String) drThisRow["STREET_DIR_PRE"] + " "
                                + (String) drThisRow["STREET_NAME_PRE"] + " "
                                + (String) drThisRow["STREET_TYPE_PRE"];

     //Since we found a match, drop out of the inner loop.
     break;

    }

   }

  }

 }

 /// <summary>This subroutine creates an additional table within the dataset.</summary>
 private void CreateOutputTable() {

  //Create a tables collection from the input dataset
  DataTableCollection dtcTABLES = dsInputDataset.Tables;

  //Make a copy the input data table.
  DataTable dtOutputData = dtcTABLES[sInputTableName].Copy();

  //Change the name of the table name to OutputData
  dtOutputData.TableName= "OutputData";

  //Drop all of the columns in the OutputData data table except for the unique idenfier and the address
field itself.
  //NOTE: Since the output data table has been modified in the copy code above, the code below needed to
use the list of
  //      fields from the input data table for the foreach enumeration...otherwise you get an error.
  DataColumnCollection dcInputColColl = dsInputDataset.Tables[sInputTableName].Columns;
  DataColumnCollection dcOutputColColl = dtOutputData.Columns;
  foreach(DataColumn dcCol in dcInputColColl) {

   //Remove this column if it is not the unique id or
   if (dcCol.ColumnName != sInputUniqueRowID && dcCol.ColumnName != sInputAddressColumnName) {
    if (dcOutputColColl.CanRemove(dcOutputColColl[dcCol.ColumnName])) {
     dcOutputColColl.Remove(dcCol.ColumnName);
    }
   }
   else {
    Console.WriteLine("WARNING: Program cannot remove the column {0} from the output data table in the
CreateOutputTable subroutine.  This may be okay, but check the output just in case!!",dcCol.ColumnName);
   }

  }

  //Add a column CLEAN_ADDRESS to contain the cleaned address.
```

```
  DataColumn dcCLEAN_ADDRESS = new DataColumn("CLEAN_ADDRESS", System.Type.GetType("System.String"));
dcCLEAN_ADDRESS.AllowDBNull = true; dcCLEAN_ADDRESS.MaxLength=200; dcCLEAN_ADDRESS.DefaultValue="";
  dtOutputData.Columns.Add(dcCLEAN_ADDRESS);

  //Add a REGEX_MATCH_DESC field
  DataColumn dcREGEX_MATCH_DESC = new DataColumn("REGEX_MATCH_DESC",
System.Type.GetType("System.String")); dcREGEX_MATCH_DESC.AllowDBNull = true;
dcREGEX_MATCH_DESC.MaxLength=100; dcREGEX_MATCH_DESC.DefaultValue="";
  dtOutputData.Columns.Add(dcREGEX_MATCH_DESC);

  //Add a REGEX_MATCH_ID field
  DataColumn dcREGEX_MATCH_ID = new DataColumn("REGEX_MATCH_ID", System.Type.GetType("System.Int32"));
dcREGEX_MATCH_ID.AllowDBNull = true;
  dtOutputData.Columns.Add(dcREGEX_MATCH_ID);

  //Add a BOUND_DIR field
  DataColumn dcBOUND_DIR = new DataColumn("BOUND_DIR", System.Type.GetType("System.String"));
dcBOUND_DIR.AllowDBNull = true; dcBOUND_DIR.MaxLength=100; dcBOUND_DIR.DefaultValue="";
  dtOutputData.Columns.Add(dcBOUND_DIR);

  //Add a BUILDING_UNIT field
  DataColumn dcBUILDING_UNIT = new DataColumn("BUILDING_UNIT", System.Type.GetType("System.String"));
dcBUILDING_UNIT.AllowDBNull = true; dcBUILDING_UNIT.MaxLength=100; dcBUILDING_UNIT.DefaultValue="";
  dtOutputData.Columns.Add(dcBUILDING_UNIT);

  //Add a BUILDING_UNIT_NBR field
  DataColumn dcBUILDING_UNIT_NBR = new DataColumn("BUILDING_UNIT_NBR",
System.Type.GetType("System.String")); dcBUILDING_UNIT_NBR.AllowDBNull = true;
dcBUILDING_UNIT_NBR.MaxLength=100; dcBUILDING_UNIT_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcBUILDING_UNIT_NBR);

  //Add a BUSINESS_NAME field
  DataColumn dcBUSINESS_NAME = new DataColumn("BUSINESS_NAME", System.Type.GetType("System.String"));
dcBUSINESS_NAME.AllowDBNull = true; dcBUSINESS_NAME.MaxLength=100; dcBUSINESS_NAME.DefaultValue="";
  dtOutputData.Columns.Add(dcBUSINESS_NAME);

  //Add a CAPITAL_TYPE field
  DataColumn dcCAPITAL_TYPE = new DataColumn("CAPITAL_TYPE", System.Type.GetType("System.String"));
dcCAPITAL_TYPE.AllowDBNull = true; dcCAPITAL_TYPE.MaxLength=100; dcCAPITAL_TYPE.DefaultValue="";
  dtOutputData.Columns.Add(dcCAPITAL_TYPE);

  //Add a CARDINAL_NBR field
  DataColumn dcCARDINAL_NBR = new DataColumn("CARDINAL_NBR", System.Type.GetType("System.String"));
dcCARDINAL_NBR.AllowDBNull = true; dcCARDINAL_NBR.MaxLength=100; dcCARDINAL_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcCARDINAL_NBR);

  //Add a CITY_NAME field
  DataColumn dcCITY_NAME = new DataColumn("CITY_NAME", System.Type.GetType("System.String"));
dcCITY_NAME.AllowDBNull = true; dcCITY_NAME.MaxLength=100; dcCITY_NAME.DefaultValue="";
  dtOutputData.Columns.Add(dcCITY_NAME);

  //Add a CLIA_ID_NBR field
  DataColumn dcCLIA_ID_NBR = new DataColumn("CLIA_ID_NBR", System.Type.GetType("System.String"));
dcCLIA_ID_NBR.AllowDBNull = true; dcCLIA_ID_NBR.MaxLength=100; dcCLIA_ID_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcCLIA_ID_NBR);

  //Add a DEPARTMENT_NBR field
  DataColumn dcDEPARTMENT_NBR = new DataColumn("DEPARTMENT_NBR", System.Type.GetType("System.String"));
dcDEPARTMENT_NBR.AllowDBNull = true; dcDEPARTMENT_NBR.MaxLength=100; dcDEPARTMENT_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcDEPARTMENT_NBR);

  //Add a DEPARTMENT_TYPE field
  DataColumn dcDEPARTMENT_TYPE = new DataColumn("DEPARTMENT_TYPE",
System.Type.GetType("System.String")); dcDEPARTMENT_TYPE.AllowDBNull = true;
dcDEPARTMENT_TYPE.MaxLength=100; dcDEPARTMENT_TYPE.DefaultValue="";
  dtOutputData.Columns.Add(dcDEPARTMENT_TYPE);

  //Add a EXTRA_INFO_IGNORED field
  DataColumn dcEXTRA_INFO_IGNORED = new DataColumn("EXTRA_INFO_IGNORED",
System.Type.GetType("System.String")); dcEXTRA_INFO_IGNORED.AllowDBNull = true;
dcEXTRA_INFO_IGNORED.MaxLength=100; dcEXTRA_INFO_IGNORED.DefaultValue="";
  dtOutputData.Columns.Add(dcEXTRA_INFO_IGNORED);

  //Add a FILE_NBR field
  DataColumn dcFILE_NBR = new DataColumn("FILE_NBR", System.Type.GetType("System.String"));
dcFILE_NBR.AllowDBNull = true; dcFILE_NBR.MaxLength=100; dcFILE_NBR.DefaultValue="";
```

```
  dtOutputData.Columns.Add(dcFILE_NBR);

  //Add a HIGHWAY_NBR field
  DataColumn dcHIGHWAY_NBR = new DataColumn("HIGHWAY_NBR", System.Type.GetType("System.String"));
dcHIGHWAY_NBR.AllowDBNull = true; dcHIGHWAY_NBR.MaxLength=100; dcHIGHWAY_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcHIGHWAY_NBR);

  //Add a HIGHWAY_TYPE field
  DataColumn dcHIGHWAY_TYPE = new DataColumn("HIGHWAY_TYPE", System.Type.GetType("System.String"));
dcHIGHWAY_TYPE.AllowDBNull = true; dcHIGHWAY_TYPE.MaxLength=100; dcHIGHWAY_TYPE.DefaultValue="";
  dtOutputData.Columns.Add(dcHIGHWAY_TYPE);

  //Add a HOME_NBR field
  DataColumn dcHOME_NBR = new DataColumn("HOME_NBR", System.Type.GetType("System.String"));
dcHOME_NBR.AllowDBNull = true; dcHOME_NBR.MaxLength=100; dcHOME_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcHOME_NBR);

  //Add a HOME_TYPE field
  DataColumn dcHOME_TYPE = new DataColumn("HOME_TYPE", System.Type.GetType("System.String"));
dcHOME_TYPE.AllowDBNull = true; dcHOME_TYPE.MaxLength=100; dcHOME_TYPE.DefaultValue="";
  dtOutputData.Columns.Add(dcHOME_TYPE);

  //Add a INTERSECTION_TERM field
  DataColumn dcINTERSECTION_TERM = new DataColumn("INTERSECTION_TERM",
System.Type.GetType("System.String")); dcINTERSECTION_TERM.AllowDBNull = true;
dcINTERSECTION_TERM.MaxLength=100; dcINTERSECTION_TERM.DefaultValue="";
  dtOutputData.Columns.Add(dcINTERSECTION_TERM);

  //Add a INTERSTATE_NBR field
  DataColumn dcINTERSTATE_NBR = new DataColumn("INTERSTATE_NBR", System.Type.GetType("System.String"));
dcINTERSTATE_NBR.AllowDBNull = true; dcINTERSTATE_NBR.MaxLength=100; dcINTERSTATE_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcINTERSTATE_NBR);

  //Add a INTERSTATE_TYPE field
  DataColumn dcINTERSTATE_TYPE = new DataColumn("INTERSTATE_TYPE",
System.Type.GetType("System.String")); dcINTERSTATE_TYPE.AllowDBNull = true;
dcINTERSTATE_TYPE.MaxLength=100; dcINTERSTATE_TYPE.DefaultValue="";
  dtOutputData.Columns.Add(dcINTERSTATE_TYPE);

  //Add a LEVEL_NBR field
  DataColumn dcLEVEL_NBR = new DataColumn("LEVEL_NBR", System.Type.GetType("System.String"));
dcLEVEL_NBR.AllowDBNull = true; dcLEVEL_NBR.MaxLength=100; dcLEVEL_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcLEVEL_NBR);

  //Add a LEVEL_TYPE field
  DataColumn dcLEVEL_TYPE = new DataColumn("LEVEL_TYPE", System.Type.GetType("System.String"));
dcLEVEL_TYPE.AllowDBNull = true; dcLEVEL_TYPE.MaxLength=100; dcLEVEL_TYPE.DefaultValue="";
  dtOutputData.Columns.Add(dcLEVEL_TYPE);

  //Add a MAIL_STOP_CODE field
  DataColumn dcMAIL_STOP_CODE = new DataColumn("MAIL_STOP_CODE", System.Type.GetType("System.String"));
dcMAIL_STOP_CODE.AllowDBNull = true; dcMAIL_STOP_CODE.MaxLength=100; dcMAIL_STOP_CODE.DefaultValue="";
  dtOutputData.Columns.Add(dcMAIL_STOP_CODE);

  //Add a MEDICAL_ENTITY field
  DataColumn dcMEDICAL_ENTITY = new DataColumn("MEDICAL_ENTITY", System.Type.GetType("System.String"));
dcMEDICAL_ENTITY.AllowDBNull = true; dcMEDICAL_ENTITY.MaxLength=100; dcMEDICAL_ENTITY.DefaultValue="";
  dtOutputData.Columns.Add(dcMEDICAL_ENTITY);

  //Add a MEDPROF_DEGREE field
  DataColumn dcMEDPROF_DEGREE = new DataColumn("MEDPROF_DEGREE", System.Type.GetType("System.String"));
dcMEDPROF_DEGREE.AllowDBNull = true; dcMEDPROF_DEGREE.MaxLength=100; dcMEDPROF_DEGREE.DefaultValue="";
  dtOutputData.Columns.Add(dcMEDPROF_DEGREE);

  //Add a MEDPROF_NAME field
  DataColumn dcMEDPROF_NAME = new DataColumn("MEDPROF_NAME", System.Type.GetType("System.String"));
dcMEDPROF_NAME.AllowDBNull = true; dcMEDPROF_NAME.MaxLength=100; dcMEDPROF_NAME.DefaultValue="";
  dtOutputData.Columns.Add(dcMEDPROF_NAME);

  //Add a ORDINAL_NBR field
  DataColumn dcORDINAL_NBR = new DataColumn("ORDINAL_NBR", System.Type.GetType("System.String"));
dcORDINAL_NBR.AllowDBNull = true; dcORDINAL_NBR.MaxLength=100; dcORDINAL_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcORDINAL_NBR);

  //Add a PHONE_AREACODE field
```

```
  DataColumn dcPHONE_AREACODE = new DataColumn("PHONE_AREACODE", System.Type.GetType("System.String"));
dcPHONE_AREACODE.AllowDBNull = true; dcPHONE_AREACODE.MaxLength=100; dcPHONE_AREACODE.DefaultValue="";
  dtOutputData.Columns.Add(dcPHONE_AREACODE);

  //Add a PHONE_EXCHANGE field
  DataColumn dcPHONE_EXCHANGE = new DataColumn("PHONE_EXCHANGE", System.Type.GetType("System.String"));
dcPHONE_EXCHANGE.AllowDBNull = true; dcPHONE_EXCHANGE.MaxLength=100; dcPHONE_EXCHANGE.DefaultValue="";
  dtOutputData.Columns.Add(dcPHONE_EXCHANGE);

  //Add a PHONE_NUMBER field
  DataColumn dcPHONE_NUMBER = new DataColumn("PHONE_NUMBER", System.Type.GetType("System.String"));
dcPHONE_NUMBER.AllowDBNull = true; dcPHONE_NUMBER.MaxLength=100; dcPHONE_NUMBER.DefaultValue="";
  dtOutputData.Columns.Add(dcPHONE_NUMBER);

  //Add a POLICE_PRECINCT field
  DataColumn dcPOLICE_PRECINCT = new DataColumn("POLICE_PRECINCT",
System.Type.GetType("System.String")); dcPOLICE_PRECINCT.AllowDBNull = true;
dcPOLICE_PRECINCT.MaxLength=100; dcPOLICE_PRECINCT.DefaultValue="";
  dtOutputData.Columns.Add(dcPOLICE_PRECINCT);

  //Add a PO_BOX_NBR field
  DataColumn dcPO_BOX_NBR = new DataColumn("PO_BOX_NBR", System.Type.GetType("System.String"));
dcPO_BOX_NBR.AllowDBNull = true; dcPO_BOX_NBR.MaxLength=100; dcPO_BOX_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcPO_BOX_NBR);

  //Add a ROOM_NBR field
  DataColumn dcROOM_NBR = new DataColumn("ROOM_NBR", System.Type.GetType("System.String"));
dcROOM_NBR.AllowDBNull = true; dcROOM_NBR.MaxLength=100; dcROOM_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcROOM_NBR);

  //Add a ROUTE_NBR field
  DataColumn dcROUTE_NBR = new DataColumn("ROUTE_NBR", System.Type.GetType("System.String"));
dcROUTE_NBR.AllowDBNull = true; dcROUTE_NBR.MaxLength=100; dcROUTE_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcROUTE_NBR);

  //Add a ROUTE_TYPE field
  DataColumn dcROUTE_TYPE = new DataColumn("ROUTE_TYPE", System.Type.GetType("System.String"));
dcROUTE_TYPE.AllowDBNull = true; dcROUTE_TYPE.MaxLength=100; dcROUTE_TYPE.DefaultValue="";
  dtOutputData.Columns.Add(dcROUTE_TYPE);

  //Add a SCHOOL_NAME field
  DataColumn dcSCHOOL_NAME = new DataColumn("SCHOOL_NAME", System.Type.GetType("System.String"));
dcSCHOOL_NAME.AllowDBNull = true; dcSCHOOL_NAME.MaxLength=100; dcSCHOOL_NAME.DefaultValue="";
  dtOutputData.Columns.Add(dcSCHOOL_NAME);

  //Add a SCHOOL_TYPE field
  DataColumn dcSCHOOL_TYPE = new DataColumn("SCHOOL_TYPE", System.Type.GetType("System.String"));
dcSCHOOL_TYPE.AllowDBNull = true; dcSCHOOL_TYPE.MaxLength=100; dcSCHOOL_TYPE.DefaultValue="";
  dtOutputData.Columns.Add(dcSCHOOL_TYPE);

  //Add a STATE_CODE field
  DataColumn dcSTATE_CODE = new DataColumn("STATE_CODE", System.Type.GetType("System.String"));
dcSTATE_CODE.AllowDBNull = true; dcSTATE_CODE.MaxLength=100; dcSTATE_CODE.DefaultValue="";
  dtOutputData.Columns.Add(dcSTATE_CODE);

  //Add a STREET_DIR_POST field
  DataColumn dcSTREET_DIR_POST = new DataColumn("STREET_DIR_POST",
System.Type.GetType("System.String")); dcSTREET_DIR_POST.AllowDBNull = true;
dcSTREET_DIR_POST.MaxLength=100; dcSTREET_DIR_POST.DefaultValue="";
  dtOutputData.Columns.Add(dcSTREET_DIR_POST);

  //Add a STREET_DIR_PRE field
  DataColumn dcSTREET_DIR_PRE = new DataColumn("STREET_DIR_PRE", System.Type.GetType("System.String"));
dcSTREET_DIR_PRE.AllowDBNull = true; dcSTREET_DIR_PRE.MaxLength=100; dcSTREET_DIR_PRE.DefaultValue="";
  dtOutputData.Columns.Add(dcSTREET_DIR_PRE);

  //Add a STREET_EXTENSION field
  DataColumn dcSTREET_EXTENSION = new DataColumn("STREET_EXTENSION",
System.Type.GetType("System.String")); dcSTREET_EXTENSION.AllowDBNull = true;
dcSTREET_EXTENSION.MaxLength=100; dcSTREET_EXTENSION.DefaultValue="";
  dtOutputData.Columns.Add(dcSTREET_EXTENSION);

  //Add a STREET_NAME_POST field
  DataColumn dcSTREET_NAME_POST = new DataColumn("STREET_NAME_POST",
System.Type.GetType("System.String")); dcSTREET_NAME_POST.AllowDBNull = true;
dcSTREET_NAME_POST.MaxLength=100; dcSTREET_NAME_POST.DefaultValue="";
```

```
  dtOutputData.Columns.Add(dcSTREET_NAME_POST);

  //Add a STREET_NAME_PRE field
  DataColumn dcSTREET_NAME_PRE = new DataColumn("STREET_NAME_PRE",
System.Type.GetType("System.String")); dcSTREET_NAME_PRE.AllowDBNull = true;
dcSTREET_NAME_PRE.MaxLength=100; dcSTREET_NAME_PRE.DefaultValue="";
  dtOutputData.Columns.Add(dcSTREET_NAME_PRE);

  //Add a STREET_NUMBER_POST field
  DataColumn dcSTREET_NUMBER_POST = new DataColumn("STREET_NUMBER_POST",
System.Type.GetType("System.String")); dcSTREET_NUMBER_POST.AllowDBNull = true;
dcSTREET_NUMBER_POST.MaxLength=100; dcSTREET_NUMBER_POST.DefaultValue="";
  dtOutputData.Columns.Add(dcSTREET_NUMBER_POST);

  //Add a STREET_NUMBER_PRE field
  DataColumn dcSTREET_NUMBER_PRE = new DataColumn("STREET_NUMBER_PRE",
System.Type.GetType("System.String")); dcSTREET_NUMBER_PRE.AllowDBNull = true;
dcSTREET_NUMBER_PRE.MaxLength=100; dcSTREET_NUMBER_PRE.DefaultValue="";
  dtOutputData.Columns.Add(dcSTREET_NUMBER_PRE);

  //Add a STREET_TYPE_POST field
  DataColumn dcSTREET_TYPE_POST = new DataColumn("STREET_TYPE_POST",
System.Type.GetType("System.String")); dcSTREET_TYPE_POST.AllowDBNull = true;
dcSTREET_TYPE_POST.MaxLength=100; dcSTREET_TYPE_POST.DefaultValue="";
  dtOutputData.Columns.Add(dcSTREET_TYPE_POST);

  //Add a STREET_TYPE_PRE field
  DataColumn dcSTREET_TYPE_PRE = new DataColumn("STREET_TYPE_PRE",
System.Type.GetType("System.String")); dcSTREET_TYPE_PRE.AllowDBNull = true;
dcSTREET_TYPE_PRE.MaxLength=100; dcSTREET_TYPE_PRE.DefaultValue="";
  dtOutputData.Columns.Add(dcSTREET_TYPE_PRE);

  //Add a STREET_UNIT_NBR field
  DataColumn dcSTREET_UNIT_NBR = new DataColumn("STREET_UNIT_NBR",
System.Type.GetType("System.String")); dcSTREET_UNIT_NBR.AllowDBNull = true;
dcSTREET_UNIT_NBR.MaxLength=100; dcSTREET_UNIT_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcSTREET_UNIT_NBR);

  //Add a STREET_UNIT_TYPE field
  DataColumn dcSTREET_UNIT_TYPE = new DataColumn("STREET_UNIT_TYPE",
System.Type.GetType("System.String")); dcSTREET_UNIT_TYPE.AllowDBNull = true;
dcSTREET_UNIT_TYPE.MaxLength=100; dcSTREET_UNIT_TYPE.DefaultValue="";
  dtOutputData.Columns.Add(dcSTREET_UNIT_TYPE);

  //Add a TAX_ID_NBR field
  DataColumn dcTAX_ID_NBR = new DataColumn("TAX_ID_NBR", System.Type.GetType("System.String"));
dcTAX_ID_NBR.AllowDBNull = true; dcTAX_ID_NBR.MaxLength=100; dcTAX_ID_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcTAX_ID_NBR);

  //Add a UNKNOWN field
  DataColumn dcUNKNOWN = new DataColumn("UNKNOWN", System.Type.GetType("System.String"));
dcUNKNOWN.AllowDBNull = true; dcUNKNOWN.MaxLength=100; dcUNKNOWN.DefaultValue="";
  dtOutputData.Columns.Add(dcUNKNOWN);

  //Add a UPIN_ID_NBR field
  DataColumn dcUPIN_ID_NBR = new DataColumn("UPIN_ID_NBR", System.Type.GetType("System.String"));
dcUPIN_ID_NBR.AllowDBNull = true; dcUPIN_ID_NBR.MaxLength=100; dcUPIN_ID_NBR.DefaultValue="";
  dtOutputData.Columns.Add(dcUPIN_ID_NBR);

  //Add a ZIPCODE_5D field
  DataColumn dcZIPCODE_5D = new DataColumn("ZIPCODE_5D", System.Type.GetType("System.String"));
dcZIPCODE_5D.AllowDBNull = true; dcZIPCODE_5D.MaxLength=100; dcZIPCODE_5D.DefaultValue="";
  dtOutputData.Columns.Add(dcZIPCODE_5D);

  //Add a ZIPCODE_ADDL field
  DataColumn dcZIPCODE_ADDL = new DataColumn("ZIPCODE_ADDL", System.Type.GetType("System.String"));
dcZIPCODE_ADDL.AllowDBNull = true; dcZIPCODE_ADDL.MaxLength=100; dcZIPCODE_ADDL.DefaultValue="";
  dtOutputData.Columns.Add(dcZIPCODE_ADDL);

  //Add the OutputData data table to the DataSet.
  dtcTABLES.Add(dtOutputData);

  //Console.WriteLine("\n\n\nWithin CreateOutputTable:");
  //foreach(DataTable dtThisTable in dsInputDataset.Tables) {
  // Console.Write("DataTable={0}\n",dtThisTable.TableName);
  // foreach(DataRow drThisRow in dtThisTable.Rows) {
```

```
  //  Console.Write("\t");
  //  foreach(DataColumn dtThisColumn in dtThisTable.Columns) {
  //   Console.Write("{0} ",drThisRow[dtThisColumn]);
  //  }
  //  Console.WriteLine();
  // }
  //}

 }

 /// <summary>This subroutine sets up the array containing the regular expression objects and
descriptions.</summary>
 private void SetupRegex() {

  //Instantiate each regular expression and place it in sRE.
  sRE = new RegexStruct[181];

  //Read in the regular expressions from the database.
  Int32 indx = 0;
  String sConn = @"Data Source=SCOTT-PC\SQLTEST;Initial Catalog=TESTDB;Integrated Security=SSPI;";
  using (SqlConnection oConn = new SqlConnection(sConn)) {

   oConn.Open();
   SqlCommand oCmd = new SqlCommand("SELECT * FROM ADDRESS_REGEX",oConn);
   SqlDataReader oRdr = oCmd.ExecuteReader();
   while(oRdr.Read()) {
    sRE[indx].iREID = (Int32) oRdr["REGEX_ID"];
    sRE[indx].sDESC= (String) oRdr["REGEX_DESC"];
    try {
     sRE[indx].oRE = new Regex((String) oRdr["REGEX"],RegexOptions.IgnoreCase);
    }
    catch {
     Console.WriteLine("ERROR: PROBLEM WITH THIS REGULAR EXPRESSION ==>
{0}:{1}",oRdr["REGEX_ID"],oRdr["REGEX_DESC"]);
     throw;
    }

    indx++;
   }
   oRdr.Close();

  }

 }

}

class MainProgram {

 public static void Main() {

  //Create a Dataset, AddressCleaningData, to hold the input data table, InputData.
  DataSet dsADDRDATA = new DataSet("AddressCleaningData");
  DataTableCollection dtcTABLES = dsADDRDATA.Tables;
  //Add a table to the dataset.
  dtcTABLES.Add("InputData");
  //Create the columns.
  DataColumn dcROWID = new DataColumn("ROWID", System.Type.GetType("System.Int32")); dcROWID.AllowDBNull
= false;
  DataColumn dcFIRSTNAME = new DataColumn("FIRSTNAME", System.Type.GetType("System.String"));
dcFIRSTNAME.AllowDBNull = true; dcFIRSTNAME.MaxLength=50;
  DataColumn dcLASTNAME = new DataColumn("LASTNAME", System.Type.GetType("System.String"));
dcLASTNAME.AllowDBNull = true; dcLASTNAME.MaxLength=50;
  DataColumn dcBUSINESSNAME = new DataColumn("BUSINESSNAME", System.Type.GetType("System.String"));
dcBUSINESSNAME.AllowDBNull = true; dcBUSINESSNAME.MaxLength=50;
  DataColumn dcADDRESS1 = new DataColumn("ADDRESS1", System.Type.GetType("System.String"));
dcADDRESS1.AllowDBNull = false; dcADDRESS1.MaxLength=50;
  DataColumn dcADDRESS2 = new DataColumn("ADDRESS2", System.Type.GetType("System.String"));
dcADDRESS2.AllowDBNull = true; dcADDRESS2.MaxLength=50;
  DataColumn dcCITY = new DataColumn("CITY", System.Type.GetType("System.String")); dcCITY.AllowDBNull =
true; dcCITY.MaxLength=25;
  DataColumn dcSTATE = new DataColumn("STATE", System.Type.GetType("System.String"));
dcSTATE.AllowDBNull = true; dcSTATE.MaxLength=2;
  DataColumn dcPOSTCODE = new DataColumn("POSTCODE", System.Type.GetType("System.String"));
dcPOSTCODE.AllowDBNull = true; dcPOSTCODE.MaxLength=10;
  //Add the columns to the InputData data table.
```

```
  dtcTABLES["InputData"].Columns.Add(dcROWID);
  dtcTABLES["InputData"].Columns.Add(dcFIRSTNAME);
  dtcTABLES["InputData"].Columns.Add(dcLASTNAME);
  dtcTABLES["InputData"].Columns.Add(dcBUSINESSNAME);
  dtcTABLES["InputData"].Columns.Add(dcADDRESS1);
  dtcTABLES["InputData"].Columns.Add(dcADDRESS2);
  dtcTABLES["InputData"].Columns.Add(dcCITY);
  dtcTABLES["InputData"].Columns.Add(dcSTATE);
  dtcTABLES["InputData"].Columns.Add(dcPOSTCODE);
  dtcTABLES["InputData"].PrimaryKey = new DataColumn[] {dtcTABLES["InputData"].Columns["ROWID"]};
  //Add a row of data to the InputData data table.
  DataRow drROW;
  drROW = dsADDRDATA.Tables["InputData"].NewRow();
  drROW["ROWID"] = 1;
  drROW["FIRSTNAME"] = "Charles";
  drROW["LASTNAME"] = "Halveson";
  drROW["BUSINESSNAME"] = "Foot Care Center, P.C.";
  drROW["ADDRESS1"] = "1540 North Bell Street";
  drROW["ADDRESS2"] = "";
  drROW["CITY"] = "Fremont";
  drROW["STATE"] = "NE";
  drROW["POSTCODE"] = "68025";
  dsADDRDATA.Tables["InputData"].Rows.Add(drROW);

  drROW = dsADDRDATA.Tables["InputData"].NewRow();
  drROW["ROWID"] = 2;
  drROW["FIRSTNAME"] = "Chuck";
  drROW["LASTNAME"] = "Halveson";
  drROW["BUSINESSNAME"] = "Foot Care Center, P.C.";
  drROW["ADDRESS1"] = "1540 Nrth Bell Cir";
  drROW["ADDRESS2"] = "";
  drROW["CITY"] = "Fremont";
  drROW["STATE"] = "NE";
  drROW["POSTCODE"] = "68025";
  dsADDRDATA.Tables["InputData"].Rows.Add(drROW);

  drROW = dsADDRDATA.Tables["InputData"].NewRow();
  drROW["ROWID"] = 3;
  drROW["FIRSTNAME"] = "Bob";
  drROW["LASTNAME"] = "Smith";
  drROW["BUSINESSNAME"] = "Smith's Office";
  drROW["ADDRESS1"] = "11211 Janes Street";
  drROW["ADDRESS2"] = "";
  drROW["CITY"] = "Fremont";
  drROW["STATE"] = "NE";
  drROW["POSTCODE"] = "08042";
  dsADDRDATA.Tables["InputData"].Rows.Add(drROW);

  //Test the address cleaning from here!
  AddressClean oAC = new AddressClean(dsADDRDATA,"InputData","ROWID","ADDRESS1");

  //Console.WriteLine("\n\n\nAt end of program:");
  //foreach(DataTable dtThisTable in dsADDRDATA.Tables) {
  // Console.Write("DataTable={0}\n",dtThisTable.TableName);
  // foreach(DataColumn dtThisColumn in dtThisTable.Columns) {Console.Write("{0}
",dtThisColumn.ColumnName);;}
  // foreach(DataRow drThisRow in dtThisTable.Rows) {
  //  Console.Write("\t");
  //  foreach(DataColumn dtThisColumn in dtThisTable.Columns) {
  //   Console.Write("{0} ",drThisRow[dtThisColumn]);
  //  }
  //  Console.WriteLine();
  // }
  //}

  //Use this code to bulk load the data table OutputData into the SQL Server database.  Make sure the
create the table first!!
  String sConnDEST = @"Data Source=SCOTT-PC\SQLTEST;Initial Catalog=TESTDB;Integrated Security=SSPI;";
  SqlConnection oConnDEST = new SqlConnection(sConnDEST);
  oConnDEST.Open();
  SqlBulkCopy oBcpDEST = new SqlBulkCopy(oConnDEST);
  oBcpDEST.DestinationTableName="dbo.OutputData";
  oBcpDEST.WriteToServer(dsADDRDATA.Tables["OutputData"]);

 }
```

}

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