**Sage Enterprise Intelligence: How To example on populating the Map table used by the SEI Sales Cube so Longitude and Latitude can be plotted on Map style worksheets**

NOTE: This is provided “as is” for an example of how to populate the data mentioned. There are other options, use the one best for your business. **This is not a process supported by Sage Customer Support.**

**WARNING:** Always back up data prior to making changes

Prerequisites:

1. Ability to get a Zip code database
2. Intermediate skill with Microsoft Excel
3. Access to Microsoft SQL Server Management Studio

Process steps

Download a Zipcode database

Example is a free 2012 database of US Postal codes. There are commercially available, update to date, databases which can be purchased online from third party vendors.

<http://federalgovernmentzipcodes.us/>

**Database Updated: 1/22/2012**

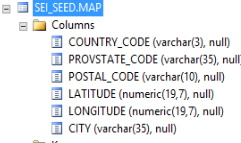
[Free Zipcode Database](http://federalgovernmentzipcodes.us/free-zipcode-database.csv) (8.7 MB) Updated 1/22/2012 All Locations (Multiple locations for some zipcodes)

Extract and open

Identify source file format



Target table is MAP table in the SEI\_[x3Folder] schema. In this example, SEI\_SEED



Convert source file to base format of MAP table

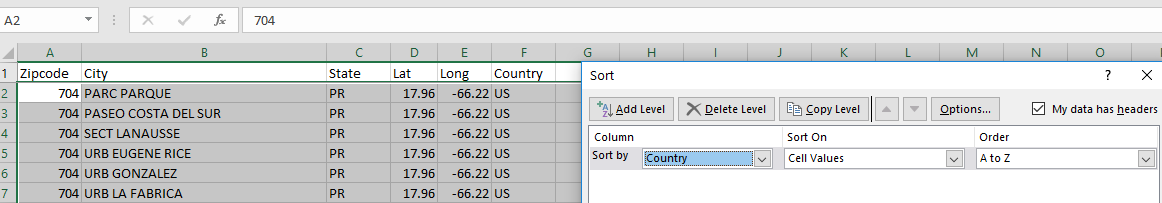
Desired columns highlighted:



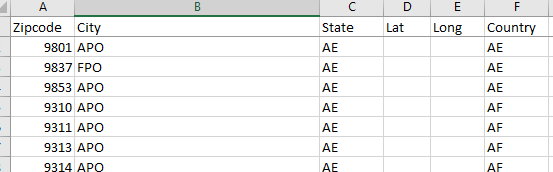
Deleted unnecessary columns



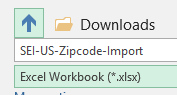
Sort source file on country



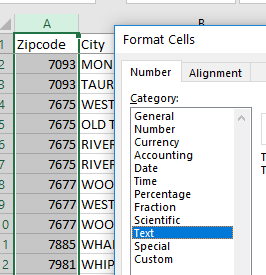
Delete rows which show military APO/FPO addresses and are missing Longitude and Latitude coordinates. (I also deleted all Puerto Rico rows.)



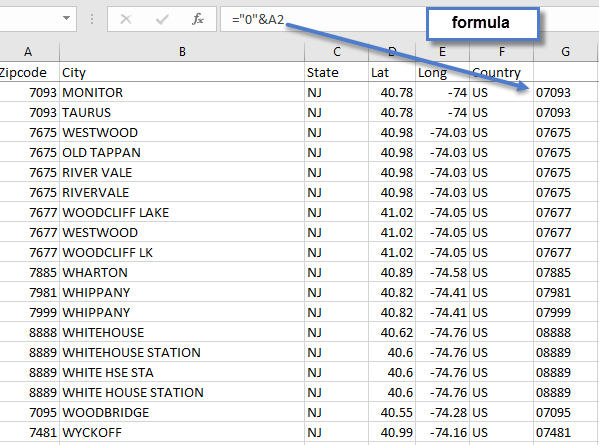
(Save file as Excel sheet.)



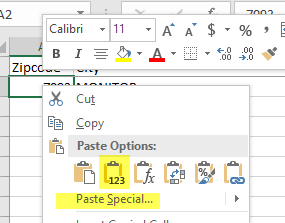
Changed Zipcode column to Text format



For New Jersey, insert one zero “0” in front of zip codes in new column.



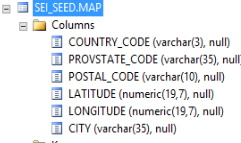
Copied and Paste Special, Values from Column G to Column A for New Jersey

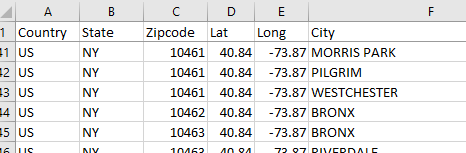


Delete column G

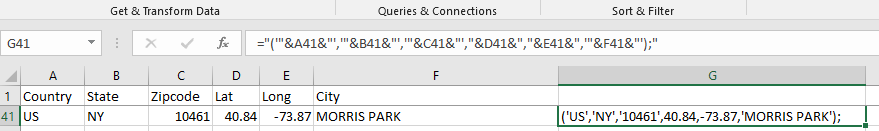
Save spreadsheet

Order columns to match MAP table order





Combine columns into a single column string for an Insert statement in SQL



Example Formula: ="('"&A41&"','"&B41&"','"&C41&"',"&D41&","&E41&",'"&F41&"');"

Note the all text fields are enclosed with a single quote ‘. So the formula has several places where it is double-quote single-quote comma single-quote double-quote. Example (spaces added): “ ‘ , ‘ “

Once the formula is copied into all rows (this example has around 81,300 rows), then copy the column and Use the Paste Special – Values to paste it back on to itself so the formulas are replaced with text.

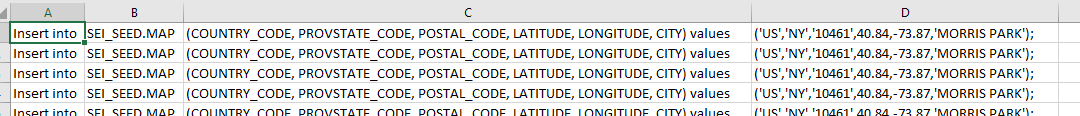
Delete columns which have the original data (A-F in this example)

Delete row 1 which is blank

Insert 3 columns to the left of the one with the data in it

Break this command into the 3 columns. This will allow you to replace the folder specific value if you want to import into more than one SEI schema.

Insert into SEI\_SEED.MAP (COUNTRY\_CODE, PROVSTATE\_CODE, POSTAL\_CODE, LATITUDE, LONGITUDE, CITY) values



Copy formula to all rows

Save spreadsheet

Once more combine all the columns into a single column [E].

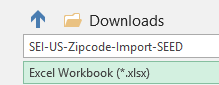
Copy / Paste Special – Values that new column [E] onto itself



Save spreadsheet

Delete columns A – D (in this example)

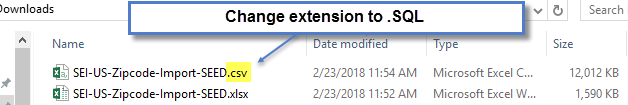
**SAVE AS a different name**, like “SEI-US-Zipcode-Import-SEED”



Next SAVE AS a CSV file format

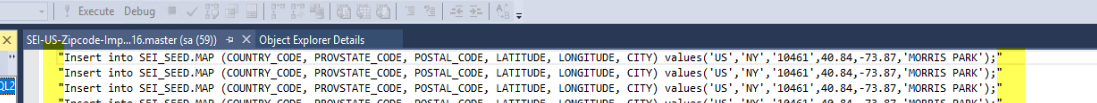


Browse in Windows and change the file extension to .SQL





Open File in SQL Management Studio

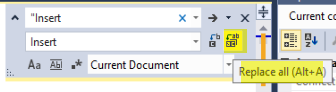


Note the leading and ending double-quotes

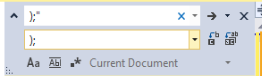
Ctrl+F

Quick Replace (Ctrl+H) or File, Edit, Find and Replace, Quick Replace

Replace “Insert with Insert



And ):” with ):



Select the SEICube and click Execute to insert the long/lat data into the MAP table.

