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| **San Francisco Crime Categorization**  **BDA 106 – Fall 2019 - Capstone Project – Report** | **Improving efficiency of San Francisco Police Department by leveraging historical data and data science technology.** |

By Harshida Jegadeesh Chandar- 8th December 2019

**Executive Summary**

The San Francisco Police Department historic criminal incident data is an enterprise asset. A diligent and organized recording of all criminal incidents will finally be leveraged as a base to build the data science tool to efficiently and effectively deploy resources and work towards being proactive, rather than being reactive to new crime incidents.

The criminal incident data consists of three major dimensions – Location of the crime, Time of crime, Category of the crime. The location dimension is granular enough to identify the location by geo co-ordinates or street address or by the SFPD District. The data ranges from Jan of 2003 to May of 2015. There are 39 Categories of crime. Based on the above mentioned three dimensions we have analysed the data and built a Crime Classification Model which will allow SFPD to classify the category of the crime given the date, time and location.

We have identified the Top 10 Crime Categories for over the period of 2003 to 2014 as - Larceny/Theft, Other Offenses, Non-Criminal, Assault, Drug/Narcotic, Vandalism, Vehicle theft, Burglary, Warrants and Suspicious OCC. The distribution of the crime incidents in pd Districts and hour of the crime varies based on the Category.

Larceny/Theft has been escalating steadily since 2011 and requires immediate attention. Other Offenses may not equate to other crime category in severity, but it ranks second, so more understanding of the nature of the offense may lead us in preventing a more severe crime. We have noticed a very impressive decrease in Vehicle theft from 2005 to 2006 and steady decrease since then till 2010. Non-Criminal category has been on a rise since 2009 and been steadily increased till 2013, and shows a decrease in 2014, so actions taken 2014 to control this crime category has been effective. Assault has been consistent through out the years. Drug/Narcotic has decreased significantly since 2009 till 2011 and steadily decreasing since then, so the action plan to control this crime category has been highly effective.

There are few issues in the data collection which need to be addressed – Good integration with the City of San Francisco’s GIS System should enable us to validate the geo co-ordinates, street address and Pd District boundaries. The category – “Other Offenses” needs to be evaluated and defined more granularly for better understanding of the crime and lastly but importantly, ensure there is no duplication of crime incidents in the system.

As part of our methodology we followed, we built 3 different multi-class classification models - Gaussian Naive Bayes, Random Forest Classifier and K-Nearest Neighbors with and without the newly engineered features derived from the data. After few iterations of model parameter tuning we have identified Random Forest Classifier with new engineered features as our selected model, which has lowest log loss value of 15% and accuracy of 98%. This model will enable us to classify a crime based on time and location with most accuracy.

With this classification model in place and implementation of GIS integration with Incident Management system we are one step closer to building an AI model which enable us to predict future occurrences of crime. We would also like to suggest AI modelling to establish the current mood in a location based on the social media and events management records, which would help in prediction of current or future crime occurrences.

**Goal**

Build a multiclass classification model using different algorithms and select the model with low cross-entropy log loss and high accuracy. This will provide us with the base for building our future AI model.

**Data Cleansing**

There are 2323 records which are duplicate in the dataset provided, to the extent they even match datetime stamp and location co-ordinates as well. These duplicate records were removed so that he analysis and modelling will not be affected.

There are 67 records with completely wrong geo co-ordinates for it to belong in City of San Francisco. 5 records were updated with the correct co-ordinates based on their address matched and 62 records were removed, because we do not have the matching addresses.

**Data Analysis**

Location fields – PdDistrict, Address, X and Y. There is a lot of overlap between the geo co-ordinates (X,Y) and address between two or more PdDistrict. 1441 records where combination of address and geo co-ordinates are associated with more than one PdDistrict. 1008 records have same address but different PdDistrict and 1218 records have same geo co-ordinates but different PdDistricts. These leads us to understand that the crime location data input has no validation in place to distinctly identify the PdDistrict boundaries, address and geo co-ordinates. Please review appendix A for a graphical representation of these anomalies. For our analysis/classification modelling we have created unique identifier with the combination of address and geo co-ordinates with unique records from train and test dataset provided for this project. With this identifier it does not matter which PdDistrict the crime location belongs to and helps in building the classifier model more accurately.

The dataset consists of alternate week starting from Jan 2003 to May 2015. While analysing the data we will consider only the full year data to quantify the crime incidents to better understand the trend, but for modelling we use all the years.

**Data Inference**

Overview of top 10 Crime Categories over the years and their trend. For graphical representation please refer to appendix B.

1. Larceny/Theft has had the highest incidents through out all years and since 2011 it has been increasing drastically.
2. Other Offenses has been second leading category rising in 2007 and decreasing slowly in 2010 and increasing again increasing again in 2013.
3. Non-Criminal category is third in the leading category which steadily increased from 2009 and recently dropped slightly.
4. Assault is fourth in the leading categories and has stayed consistent through out the years.
5. Drug/Narcotic is fifth in the lead and steadily dropped since 2009. The policies and/or procedures implemented since 2009 seems to be working consistently.
6. Vandalism is sixth and has stayed consistent throughout the years.
7. Vehicle theft stands at seventh rank, but it started out as third in 2003 and in 2005 dropped impressively and has been steadily dropping with a slight increase in 2010 but nothing compared to its initially number of incidents.
8. Burglary takes eight place and has been consistent through out the years without any drastic changes.
9. Warrants is at ninth place and has remained consistent through out the years. However, we are not sure this is crime category, but we defer to the subject matter experts at SFPD.
10. Suspicious OCC takes the tenth place and has been consistent through out the years with a small rise in 2009.

PD Districts and highest crime category incidents over the years and their trend. For graphical representation please review appendix C.

1. Larceny/Theft is very rampant in Southern, Northern and Central Pd District during the hours of afternoon to mid-night. Month of the
2. Other Offenses is very prominent in Southern, Mission and Bayview Pd District. Very high during the hours between noon and 6pm and closely followed by hours between 6PM to mid-night.
3. Non-Criminal category is very rampant in Southern district. Mission, Central and Northern District also show significant number of incidents. This category of crime is more noticeable during the months May, Oct, Apr and Mar. And the it occurs mostly during the hours between noon and early evening.
4. Assault category is excessive in Southern, Mission and Bayview Pd Districts. Very high during the hours between noon and 6pm and closely followed by hours between 6PM to mid-night. Oct and May happen to have the highest occurrence closely followed by Mar and Apr.
5. Drug/Narcotic category is epidemic in Tenderloin Pd District. Highly active during the hours between noon and 6 pm, followed by 6 pm to mid-night. First few months of the years show more incidents than the warmer months of the year.
6. Vandalism category is highest in Southern Pd District, followed by Northern, Bayview, Ingleside and Mission closely. Hours between 6pm and mid-night have the highest occurrences. October happen to be the month with high occurrences.
7. Vehicle theft category is extremely high in Ingleside. Bayview and Mission take the second rank closely followed by Northern Pd District. Most occurrences are during the hours between 6pm to mid-night and consistent through out the months of the year.
8. Burglary is very high in Northern Pd District, followed by Southern and Central in their ranking. Hours of Burglary incidents are high during noon to mid-night and quite noticeable during the 6 am to noon as well.
9. Warrants have been highest for Southern Pd district, followed by Tenderloin and Mission Pd Districts. Mostly happening during the noon and 6 pm and significantly during later in the evening as well. First few months of the year show more occurrences than the later months of the year.
10. Suspicious OCC category is high in Southern Pd and quite significant in Bayview and Mission Pd. Hours of incidents is high during the hours between noon and 6 pm, followed by 6 pm to mid-night and 6 am to noon noticeably. The incidents are distributed over the months of the year with out much of a pattern.

**Feature Engineering**

Considering that the Address and the geo co-ordinate fields (X and Y) are not always mapped correctly and string values cannot be used in building classification model, we have created a new table CrimeAddress. This table is populated with unique combination of Address, X and Y fields from the original dataset. Each record has unique ID which acts as foreign key to AddressID in the main dataset as per the record’s Address and geo co-ordinates.

Since we have alternate week of data, we needed to derive weekly data from the data provided(Dates field), so we have introduced WeekOfYear field. We went further and derived DayOfYear, DayOfMonth and HourOfDay from the dates field.

We aggregated the data by AddressID and Category for the WeekOfYear, DayOfYear, DayOfWeek, MonthOfYear, DayOfMonth and HourOfDay for each record. This provides statistical information for all three dimensions at the record level and thus promotes validity and accuracy of the classification model. The fields in main dataset with all the engineered fields is as follows – Dates, Category, Descript, DayOfWeek, PdDistrict, Resolution, Address, X, Y, AddressID, Dates\_Year, Dates\_Month, Dates\_Day, Dates\_Hour, Dates\_Minutes, Dates\_Seconds, Dates\_WeekOfYear, Dates\_DayOfYear, WeekOfYear\_Category, DayOfYear\_Category, DayOfWeek\_Category, HourOfDay\_Category, AddressID\_Category, DayOfMonth\_Category, MonthOfYear\_Category, WeekOfYear\_Category\_Address, DayOfYear\_Category\_Address, DayOfWeek\_Category\_Address, HourOfDay\_Category\_Address, DayOfMonth\_Category\_Address and MonthOfYear\_Category\_Address. For more information on columns review appendix D.

**Multi-Class Classification Modelling**

As per our proposal we built three major classification models - Gaussian Naive Bayes, Random Forest Classifier and K-Nearest Neighbors with and without feature engineering. We are advised to use Log loss and accuracy as performance evaluation metric. Therefore, our ideal model should have low log loss and high accuracy.

For the first iteration of modelling we used the dataset as it was provided, that is without any feature engineering. Since date fields can not be used in modelling Day, DayOfWeek, Month, Year, Hour and Minute were derived from Dates field. The string fields like Address, Dates, Descript and Resolution were dropped. Using LabelEncoder converted PdDistrict and Category to numerical values. Using train\_test\_split we split the data in Train dataset to obtain Training and Testing datasets. Target values were loaded into Training\_Y and dropped from the Training dataset to form Training\_X.

First multi-class classification we tried was Gaussian Naive Bayes. It took us 5.3 seconds with log loss 2.6 and accuracy 19%. Second one was Random Forest Classifier, which took 1152.8 seconds with log loss of 4.8 and 31% accuracy. Even though the accuracy has increased the log loss has increased as well, so not an ideal model. Lastly we tried K-Nearest Neighbors, which took 16.3 seconds with log loss of 18.7 and 18% accuracy. In this case the log loss has increased significantly, and accuracy has gone done by 1%. None of the above model will be acceptable.

For the second iteration of modelling we used the dataset with features engineered. As before, string fields like Address, Dates, Descript and Resolution were dropped. Using LabelEncoder converted PdDistrict and Category to numerical values. Using train\_test\_split we split the data in Train dataset to obtain Training and Testing datasets. Target values were loaded into Training\_Y and dropped from the Training dataset to form Training\_X.

First multi-class classification we tried was Gaussian Naive Bayes. It took us 5 seconds with log loss 3.55 and accuracy 42%. Second one was Random Forest Classifier, which took 341 seconds with log loss of 0.15 and 98% accuracy. This model has the best result, but we built the third model to be sure. The third model K-Nearest Neighbors took 42 seconds with 4.1 log loss and 65% accuracy.

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| **Data Source** | **Classification Algorithm** | **Time in Seconds** | **Log Loss** | **Accuracy** |
| OriginalDataSet | Gaussian Naive Bayes | 5.3 | 2.6 | 0.19 |
| OriginalDataSet | Random Forest Classifier (n\_estimators=100) | 1152.8 | 4.8 | 0.31 |
| OriginalDataSet | K-Nearest Neighbors (n\_neighbors=5) | 16.3 | 18.7 | 0.18 |
|  |  |  |  |  |
| EngineeredDataSet | Gaussian Naive Bayes | 5 | 3.55 | 0.42 |
| EngineeredDataSet | Random Forest Classifier (n\_estimators=100) | 341 | 0.15 | 0.98 |
| EngineeredDataSet | K-Nearest Neighbors (n\_neighbors=5) | 42 | 4.1 | 0.65 |
| EngineeredDataSet | K-Nearest Neighbors (n\_neighbors=7) | 44.8 | 3.17 | 0.65 |

Comparing the first and second iteration we can conclude that our hypothesis - statistical information for all three dimensions at the record level promotes validity and accuracy of the classification model, has been proved correct. Now we have a stable and effective classification model - Random Forest Classifier, with log loss of only 15% with the accuracy of 98%. Thus, we have achieved our goal.

**Recommendations**

Data fields contributing towards location of the crime needs a better validation. Currently we have a small percentage of records which either have wrong co-ordinates associated with them or the SFPD District is wrong. We highly recommend that the incident management system requires a better integration with City of San Francisco GIS system, which will reduce the data entry to selecting the address which in return populates the geo co-ordinates, which cane further editing if need be to pinpoint a specific point on the map. It will also allow the SFPD to define the boundaries of PD District in the GIS system resulting in a geospatial layer which will be highly valuable in future AI modelling.

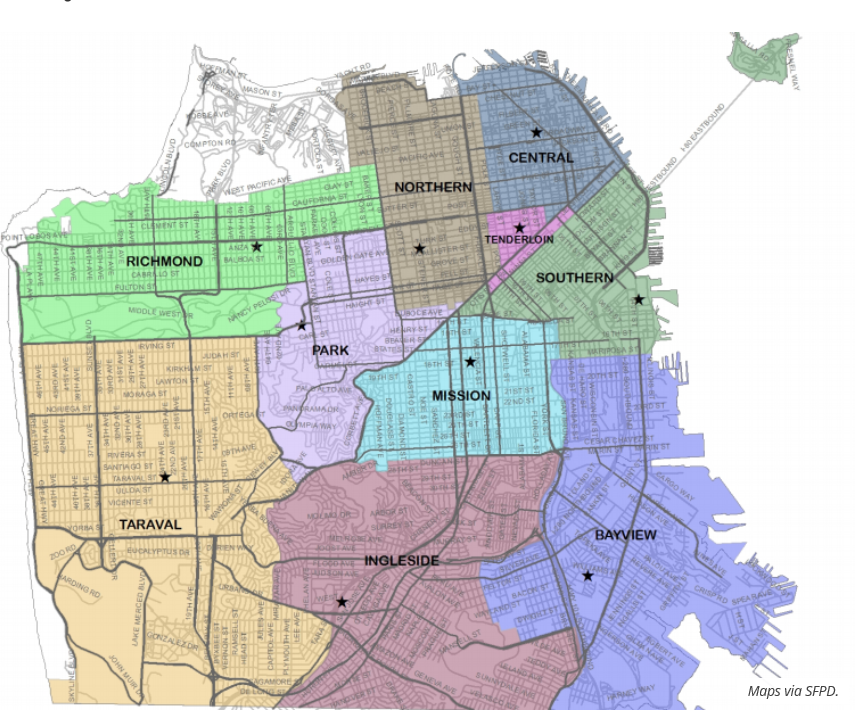
Redefine category “OTHER OFFENSES”. Other Offenses may not equate to other crime categories in severity, but it ranks second, so understanding the nature of the offense is important. We recommend that this category needs to be evaluated and defined more granularly for better understanding of the offense. The redefinition may lead us in detecting a pattern in such offenses, which may result in a severe crime, hence preventing them.

There were 2323 records which are duplicate in the dataset provided, to the extent they even match datetime stamp and location co-ordinates. This raises a need to investigate the data collection and/or ETL processes to establish the source of the issue and resolve it. In the unlikely case of these records not being duplicates, introduction of a unique ID assigned to each incident and/or introduction of seconds and if required milliseconds in the timestamp will resolve this issue.

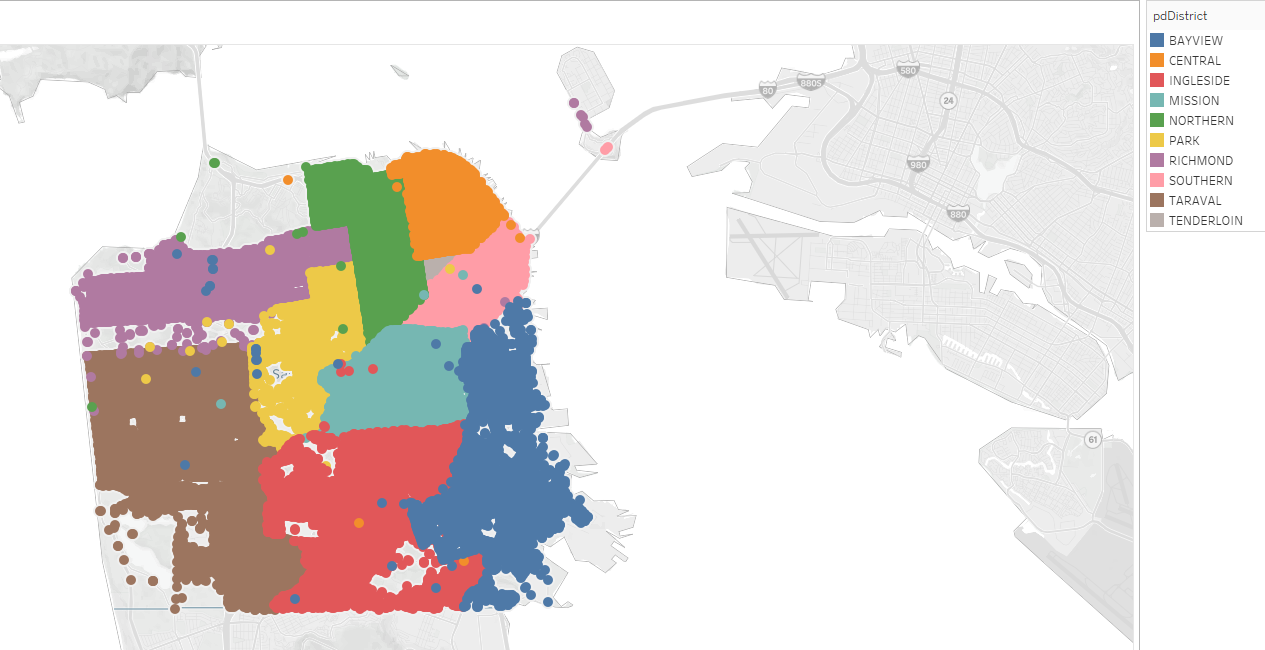
**Appendix A**

**Graphical representation of anomalies in Location dimension data.**

Official SFPD district boundaries map



SFPD boundaries as per the Location dimension data fields



**Appendix B**

Number of crime incidents from 2003 to 2014 for 39 crime categories

![A close up of a map

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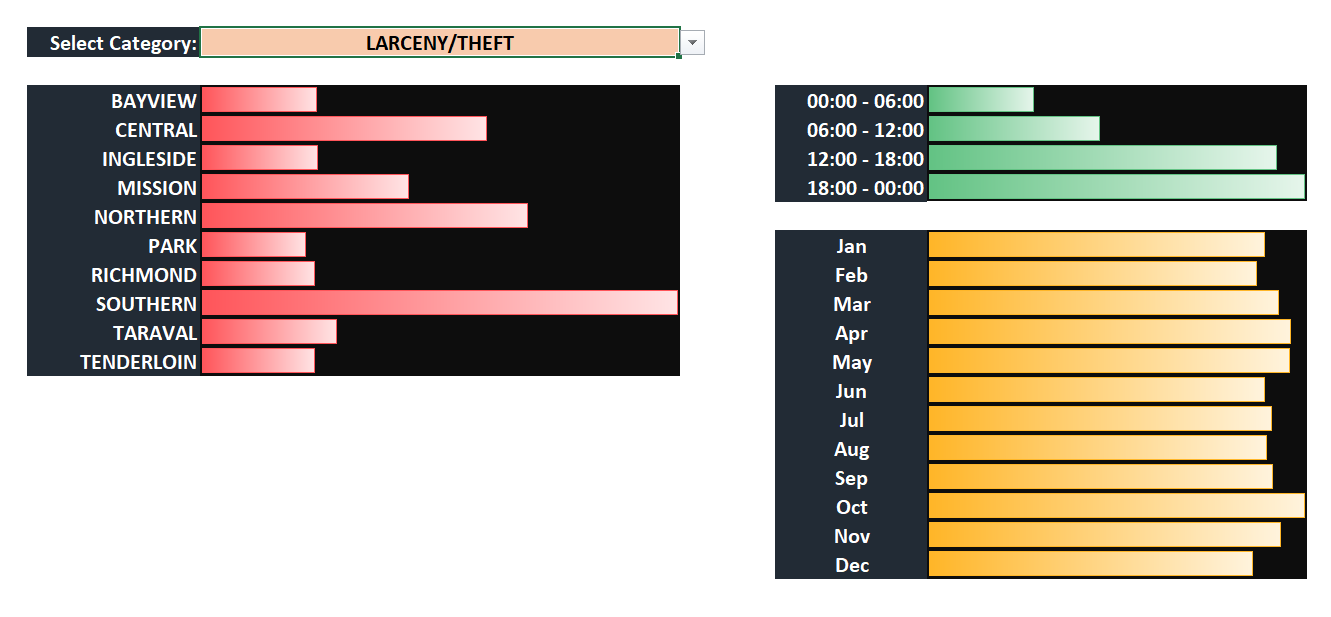
Number of crime incidents by Pd district and Category for series of years

![A screenshot of a cell phone

Description automatically 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**Appendix C**

Distribution of crime incidents in Pd District and time of incident by Category



The User can select the Category for which to view the distribution of crime incidents.

**Appendix D**

**Main Dataset Schema**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **DataType** | **DataSource** | **Description** |
| Dates | datetime | Original | Date and time of the crime incident |
| Category | varchar(100) | Original | Category of the crime |
| Descript | varchar(255) | Original | Description of the crime |
| DayOfWeek | varchar(100) | Original | Day of the week when the crime incident occurred |
| PdDistrict | varchar(150) | Original | San Francisco Police Department District |
| Resolution | varchar(150) | Original | Resolution |
| Address | varchar(255) | Original | Street Address |
| X | numeric(18, 9) | Original | Longitude |
| Y | numeric(18, 9) | Original | Latitude |
| AddressID | int | Engineered | Composite of Address and geo co-ordinates |
| Dates\_Year | int | Engineered | Derived from Dates field |
| Dates\_Month | int | Engineered | Derived from Dates field |
| Dates\_Day | int | Engineered | Derived from Dates field |
| Dates\_Hour | int | Engineered | Derived from Dates field |
| Dates\_Minutes | int | Engineered | Derived from Dates field |
| Dates\_Seconds | int | Engineered | Derived from Dates field |
| Dates\_WeekOfYear | int | Engineered | Derived from Dates field |
| Dates\_DayOfYear | int | Engineered | Derived from Dates field |
| WeekOfYear\_Category | int | Engineered | Count of Crime Incidents for the record's WeekOfYear and Category |
| DayOfYear\_Category | int | Engineered | Count of Crime Incidents for the record's DayOfYear and Category |
| DayOfWeek\_Category | int | Engineered | Count of Crime Incidents for the record's DayOfWeek and Category |
| **Field Name** | **DataType** | **DataSource** | **Description** |
| HourOfDay\_Category | int | Engineered | Count of Crime Incidents for the record's HourOfDay and Category |
| AddressID\_Category | int | Engineered | Count of Crime Incidents for the record's Address and Category |
| DayOfMonth\_Category | int | Engineered | Count of Crime Incidents for the record's DayOfMonth and Category |
| MonthOfYear\_Category | int | Engineered | Count of Crime Incidents for the record's MonthOfYear and Category |
| WeekOfYear\_Category\_Address | int | Engineered | Count of Crime Incidents for the record's Category, AddressID and WeekOfYear |
| DayOfYear\_Category\_Address | int | Engineered | Count of Crime Incidents for the record's Category, AddressID and DayOfYear |
| DayOfWeek\_Category\_Address | int | Engineered | Count of Crime Incidents for the record's Category, AddressID and DayOfWeek |
| HourOfDay\_Category\_Address | int | Engineered | Count of Crime Incidents for the record's Category, AddressID and HourOfDay |
| DayOfMonth\_Category\_Address | int | Engineered | Count of Crime Incidents for the record's Category, AddressID and DayOfMonth |
| MonthOfYear\_Category\_Address | int | Engineered | Count of Crime Incidents for the record's Category, AddressID and MonthOfYear |

**CrimeAddress Dataset Schema**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Data Source** |
| AddressID | int | Engineered |
| Address | varchar(255) | Original |
| X | numeric(18, 9) | Original |
| Y | numeric(18, 9) | Original |