# [https://avatars2.githubusercontent.com/u/4156894?v=3&s=100](http://www.calstatela.edu/centers/hipic) CIS5200 Term Project Tutorial

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**Lab Tutorial**

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**Fire Department Call Log Analysis based in San Francisco**

**Objective:**

This tutorial is about the Fire Department Call Log analysis using Hadoop cluster in Oracle insights and visualizations using tableau. You will gain working knowledge about creating a Hadoop cluster, using WinSCP to import data into HDFS and visualizing the analyzed data in tableau.

Initially a data set comprising the details of the fire department call log analysis was downloaded from a trusted source. This data set contains of the name of the company their funding details, the acquirement details along with the function market

The data set has a comprehensive and detailed call log analysis from year 2000 – 2004. It is categorized by the Call Number, Incident Number, Call Type, Call Date, Day, Month, Year, Address, Zip code, Box, Priority, ALS Unit, Number of Alarms, Unit Type, Neighborhood, Locations etc. The analyzation results will give us an idea about the year that received the most number of calls, most incident prone area, leading incident that happened over the four years, the incident that required least dispatch unit etc.

**Technologies Used:**

* Oracle
* WinSCP
* Tableau

**Pre-requisites:**

**Setup Tableau with the License:**

If you have the Tableau software with active license you are good to go. Else you can get the Tableau for students from the below link,

<http://www.tableau.com/academic/students>

You can use your institution ID to register and get free tableau desktop license for 1-year.

**Creating a Hadoop Cluster on Oracle:**

You have to sign up Oracle cloud computing account.

* Choose the cluster type as Hadoop and give the authentication details.
* Choose the hardware configuration as below,

|  |
| --- |
| Number Of Head Nodes = 2 | CPU = 8 Cores |
| Number Of Worker Nodes = 2 |CPU = 8 Cores |
| Processor - 2.4 GHz Intel Xeon® E5-2673 v3 |
| CPU Speed – 2.20 Ghz |
| Ram – 24 GB |
| Disks – 16 |
| Local SSD – 400 GB |

* The cluster creation may take a while.

**Importing Data into HDFS using WinSCP:**

* The download link for the dataset used for our project is given below,

<https://data.sfgov.org/Public-Safety/Fire-Department-Calls-for-Service/nuek-vuh3>

* Total Size : 1.5GB
* These data logs in CSV format were uploaded in Oracle using WinSCP, a tool that helps users to visualize and manage files efficiently.
* This tool serves as a bridge between the local system and the cloud data storage. The “COPY” function from WinSCP is used in this case to put the data logs into the cloud storage. The data is analyzed using the hive queries and the output files are stored in cloud which is then downloaded and opened in excel format.
* The visualization from the output files are obtained using tableau.

**Analyze Startup data in Hive:**

In the Hive editor, execute the following queries to create an external table for Fire Dept. This will create a schema for the table and load the data from the CSV files we moved to HDFS using WinSCP.

**DROP TABLE IF EXISTS FIRE;**

**CREATE EXTERNAL TABLE IF NOT EXISTS**

**FIRE(Call\_Number BIGINT,Incident\_Number INT,Call\_Type STRING,Call\_Date STRING,Call\_Final\_Disposition STRING,Address STRING,Zipcode BIGINT,Box INT,Priority INT,ALS\_Unit STRING,Number\_of\_Alarms INT,Unit\_Type STRING,Neighborhood STRING,Latitude DOUBLE,Longitude DOUBLE)**

**ROW FORMAT DELIMITED FIELDS TERMINATED BY ','**

**STORED AS TEXTFILE LOCATION '/user/ianbudu/NIM/FIRE'**

**TBLPROPERTIES ("skip.header.line.count"="1");**

**1)NUMBER OF CALLS REGISTERED BY FIRE DEPARTMENT OVER THE SPAN OF 5 YEARS**

CREATE TABLE que1

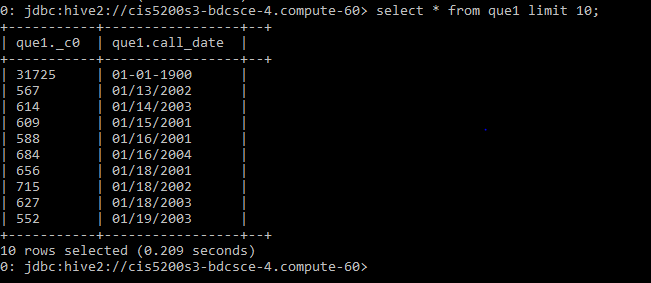
ROW FORMAT DELIMITED FIELDS TERMINATED BY ','

STORED AS TEXTFILE LOCATION '/user/ianbudu/NIM/que1/'

AS

SELECT count(Call\_Number), Call\_Date from FIRE where Call\_Date IS NOT NULL group by Call\_Date;

**OUTPUT**



**2)THE NUMBER OF UNITS DISPATCHED ACCORDING TO THE DIFFERENT TYPES OF CALLS REGISTERED**

CREATE TABLE que6

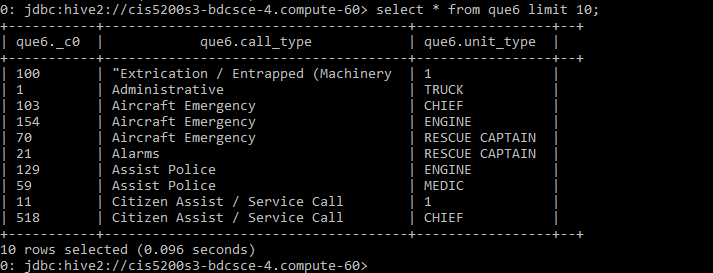
ROW FORMAT DELIMITED FIELDS TERMINATED BY ','

STORED AS TEXTFILE LOCATION '/user/ianbudu/NIM/que6/'

AS

Select count(unit\_type), call\_type, unit\_type from FIRE group by call\_type, unit\_type;

**OUTPUT**



**3)NUMBER OF INCIDENTS LABELLED BY ZIP CODES USING GEO SPATIAL**

CREATE TABLE que2

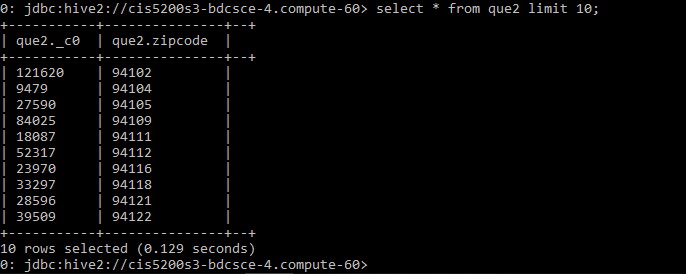
ROW FORMAT DELIMITED FIELDS TERMINATED BY ','

STORED AS TEXTFILE LOCATION '/user/ianbudu/NIM/que2/'

AS

select count(Incident\_Number),Zipcode from FIRE WHERE Incident\_Number IS NOT NULL group by Zipcode;

**OUTPUT**



**4)ANALYSIS OF INCIDENTS OVER THE PERIOD OF FIVE YEARS**

CREATE TABLE que33

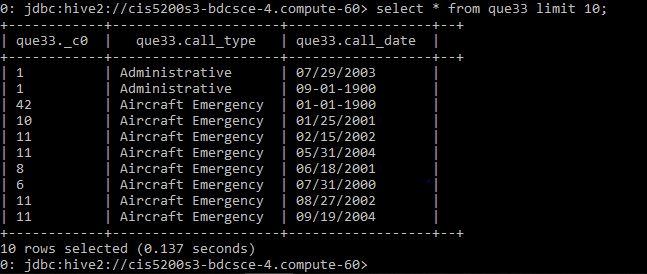
ROW FORMAT DELIMITED FIELDS TERMINATED BY ','

STORED AS TEXTFILE LOCATION '/user/ianbudu/NIM/que33/'

AS

select count(call\_type), call\_type, Call\_Date from FIRE group by call\_type, Call\_Date;

**OUTPUT**



**5)CALL TYPES CATEGORIZED ACCORDING TO LOW AND HIGH PRIORITIES**

CREATE TABLE que4

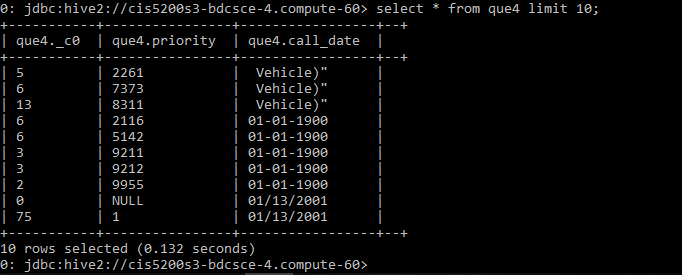
ROW FORMAT DELIMITED FIELDS TERMINATED BY ','

STORED AS TEXTFILE LOCATION '/user/ianbudu/NIM/que4/'

AS

Select count(priority), priority, call\_date from FIRE group by call\_date, priority;

**OUTPUT**



**6)COUNT OF CALL TYPES ACCORDING TO NEIGHBOURHOOD**

CREATE TABLE que5

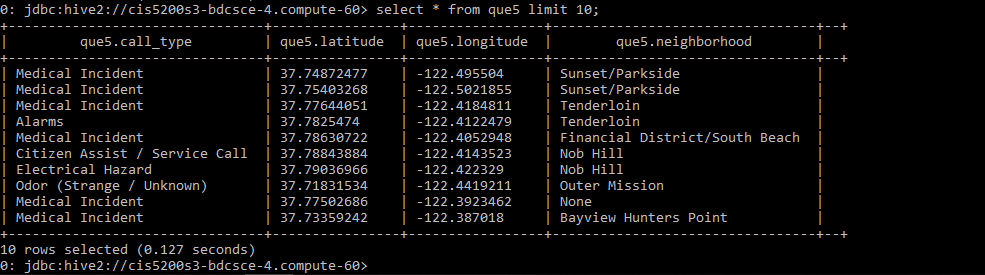
ROW FORMAT DELIMITED FIELDS TERMINATED BY ','

STORED AS TEXTFILE LOCATION '/user/ianbudu/NIM/que5/'

AS

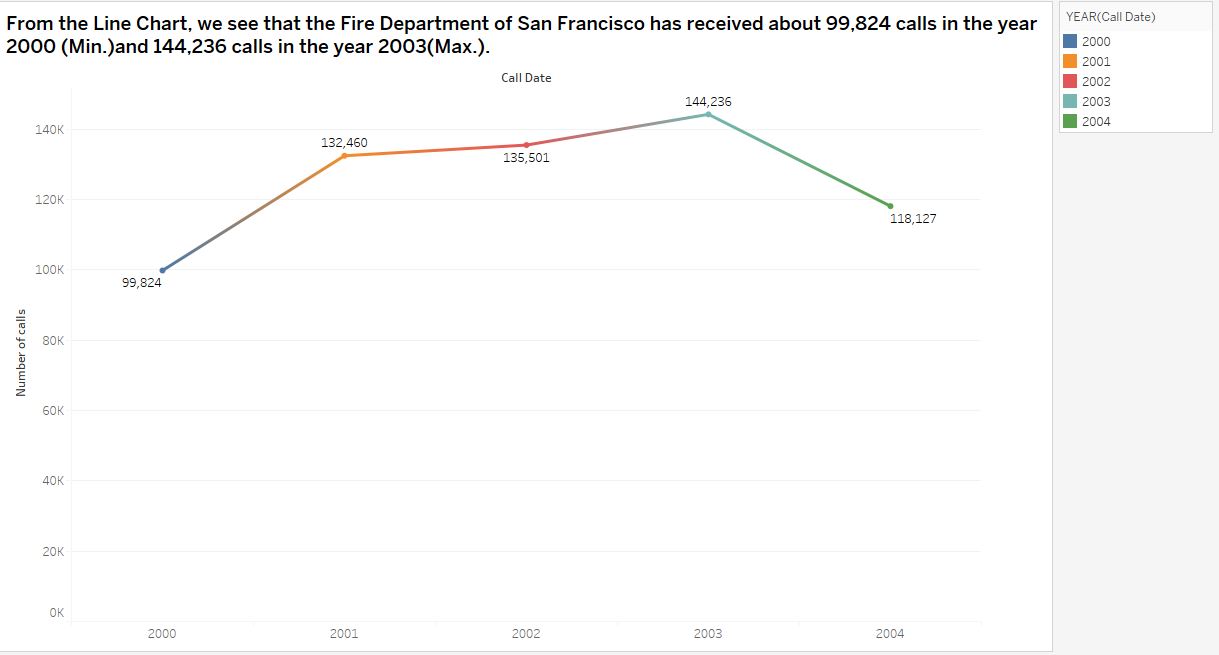
Select call\_type, Latitude, Longitude, Neighborhood from FIRE;

**OUTPUT**



**Step 3: Visualization**

**1) This is the step to analysis the number of calls registered by fire department over the five-year period**

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* **In the above given visualization, we have tried to monitor the number of calls registered in the period of more than 05 years**
* **The rows and column are the year of the calls registered and number of calls recorded in that particular year**
* **From the above visualization, we see State of San Francisco received maximum call i.e. 144,236 in the year 2003**

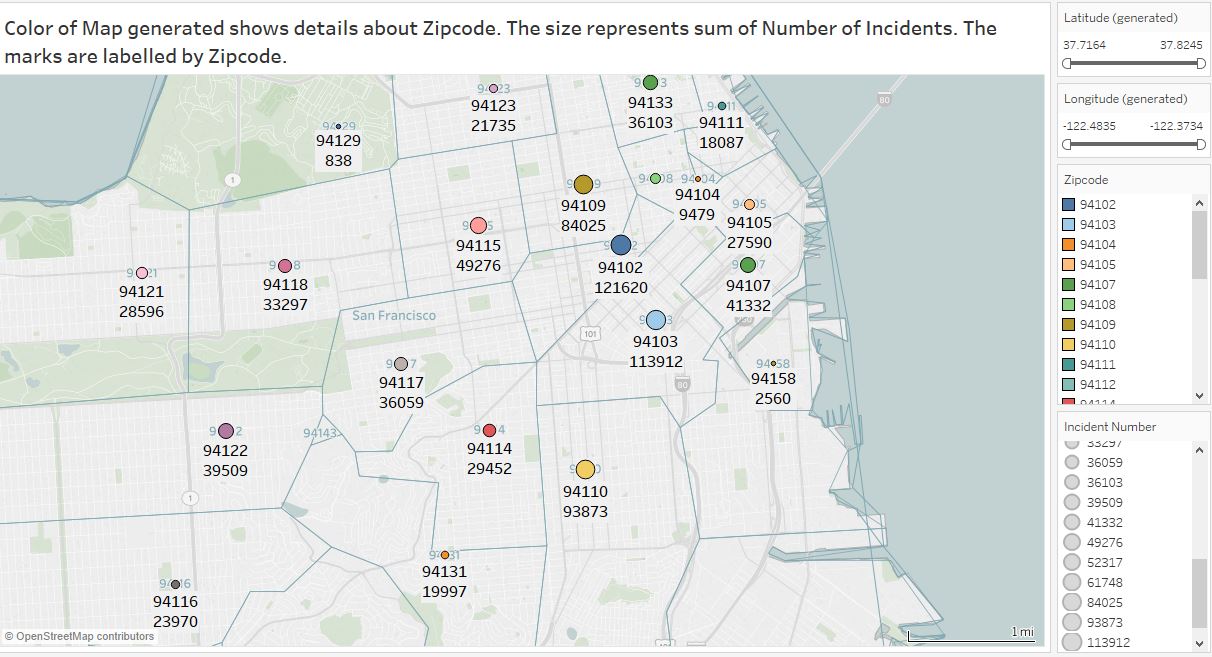
**2) This is the step to analysis the number of units dispatched according to the different types of calls registered**

![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RCIRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQcuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFQ1MjAtMgAAAAHqHAAHAAAIDAAACGQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* **From the next visualization, we try to look at the number of Units dispatched with respect to each unique incident recorded in the particular neighborhood in San Francisco**
* **The columns are the Call and Unit types while the Rows are the count of the different unit types dispatched**
* **For instance, Explosives are the major type of Incident calls for which maximum no of Unit type i.e. Engine has been sent to the site**

**3) This is the step to analysis the number of incidents that happened in a particular zip code:**



* **In the above given Geo-Spatial visualization, we have generated a color map showing details of the Zip code in San Francisco**
* **The unique number like 94129 are assigned to the Zip code. Further we have also tried to show the count of Incidents pertaining to the particular zip code**
* **The size represents the count i.e. the more the number of Incidents bigger is the size**
* **Like 94102 zip code area recorded highest number of Incidents i.e. 121,620**

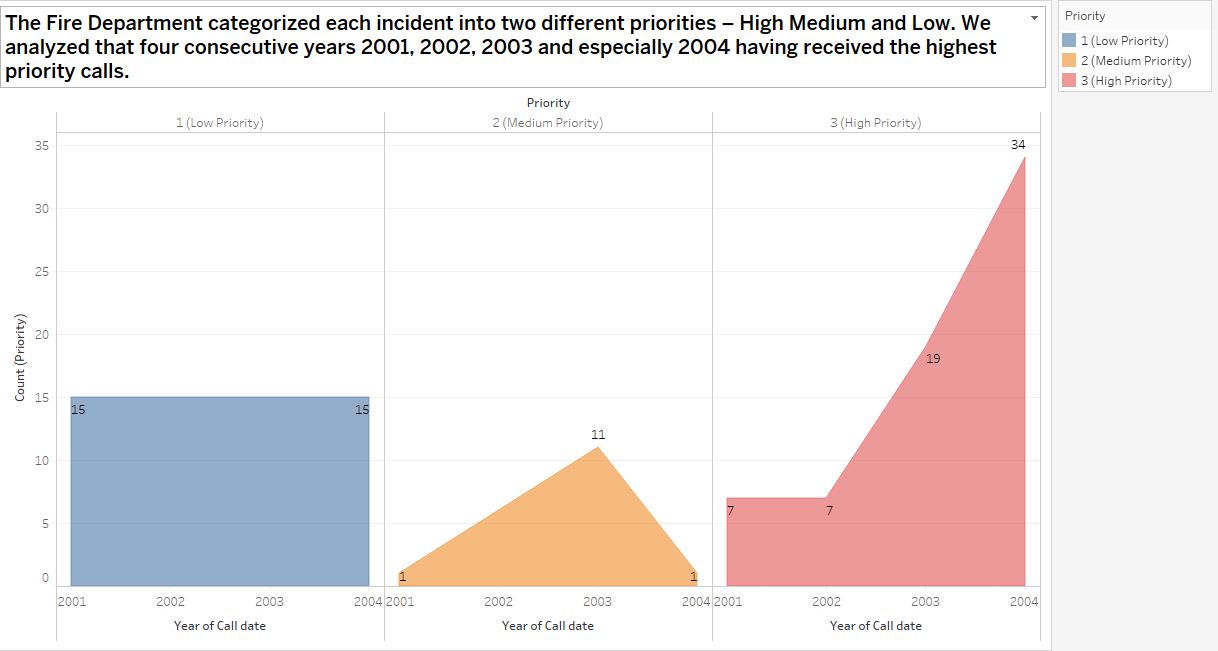
**4) This is the step to analysis of incidents over the period of five years**

**![A picture containing screenshot

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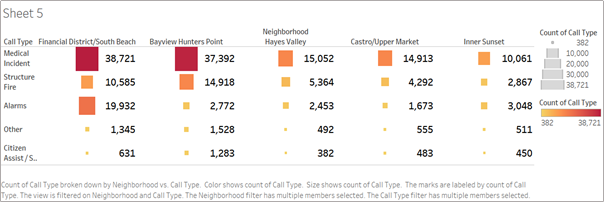
* **The Packed Bubbles chart clearly states that from the year 2000 to 2004 the fire department received calls majorly for three issues, Medical Incidents leading the list.**

**5) This is the step to analysis the call types categorized according to low and high priorities**

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* **According to our dataset, we have tried to categorize calls according to the levels of priorities**
* **1 represents low priority, 2 means medium and 3 means High priority**
* **The rows and columns are stacked against each other as year of Call date and Call priority**
* **The color also signifies the varied levels of Priority**

**6) This is the step to analysis the count of call types according to neighborhood**

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* **In the above visualization, we have done analysis with no of call types with respect to the neighborhood areas**
* **For the above given visualization, the columns represent the call types, while the row depicts the different areas of San Francisco**
* **The Range of the call types are portrayed using light to dark colors. The lightest color represent low no of call type i.e. 382(Citizen Assist for Neighborhood Hayes valley) while the dark red is for the highest no call registered i.e. 38,721 (Medical Incident for South Beach area)**

**GITHUB:**

DATA SET LINK: <https://data.sfgov.org/Public-Safety/Fire-Department-Calls-for-Service/nuek-vuh3>

GITHUB LINK: <https://github.com/ianbudu/CIS5200>

References

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