

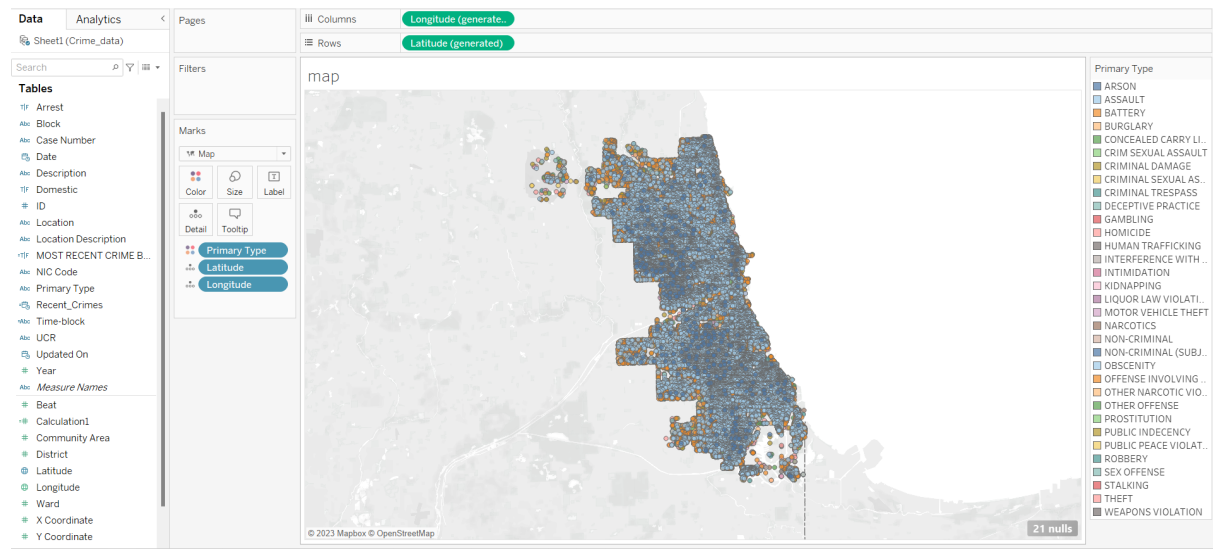
Crime Analysis

Problem objective:

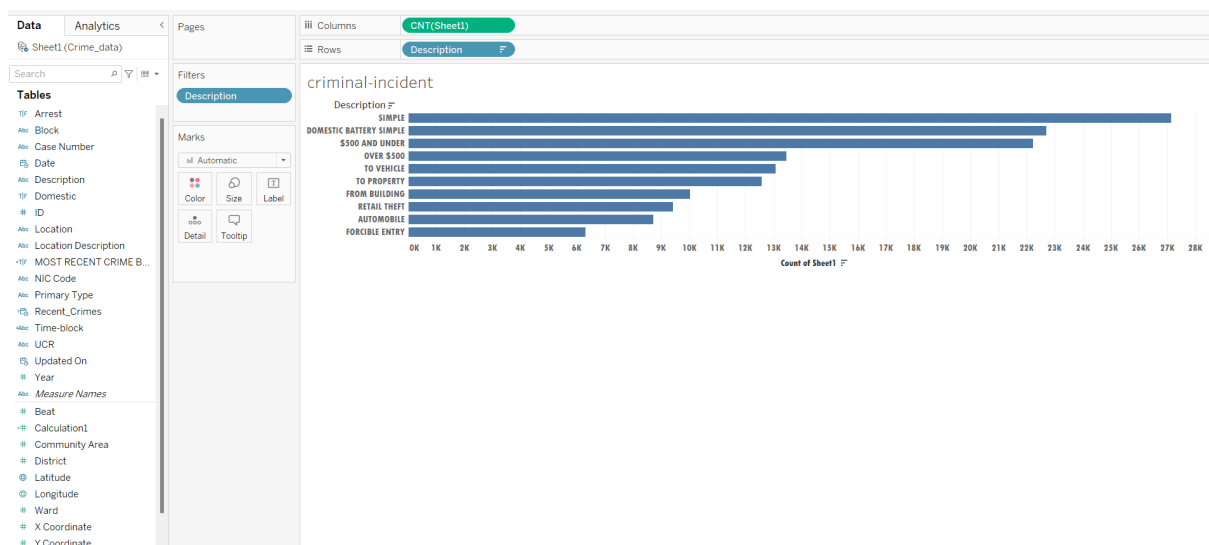
To Prepare a dashboard to keep the police department and the city updated on the statistics of crime events.

1. Overall Crime Statistics Dashboard:

- For personnel and resource management, the department needs to understand the count and types of crimes reported across the city. Mark the locations on a geo-map highlighting the locations with recent criminal history.



2. Identify the most common criminal incidents reported.



3. In this introductory dashboard, include a live crime feed to exhibit the total number of crimes reported for the current year and the most recently reported crimes with their time and locations.

CRIME BY DESCRIPTION

```
{FIXED [Description]:MAX([Date])}=[Date]
```

The calculation is valid. 2 Dependencies Apply OK

All

Search

ABS
ACOS
AND
AREA
ASCII
ASIN
ATAN
ATAN2
ATTR
AVG

ABS (number)
Returns the absolute value of the given number.
Example: ABS(-7) = 7

Filter [Description]

General Wildcard Condition Top

☐ None

☒ By field:

Top 5 by

Case Number Count (Distinct)

☐ By formula:

Top 10 by

Reset OK Cancel Apply

filter [MOST RECENT CRIME BY DESCRIPTION]

General
Condition
Top

☒ Select from list
☐ Custom value list
☐ Use all

Enter search text

☐ False
☒ True

All
None
☐ Exclude

Summary

Field: [MOST RECENT CRIME BY DESCRIPTION]
Selection: Selected 1 of 2 values
Wildcard: All
Condition: None
Limit: None

Reset
OK
Cancel
Apply

Data
Analytics

Pages

Sheet1 (Crime_data)

Columns

Description
Location Description
DAY(Updated On)

Rows

Description
Location Description
DAY(Updated On)

Filters

MOST RECENT CRIME BY DESCRIPTION

Marks

Automatic

Color
Size
Text

Detail
Tooltip

Table

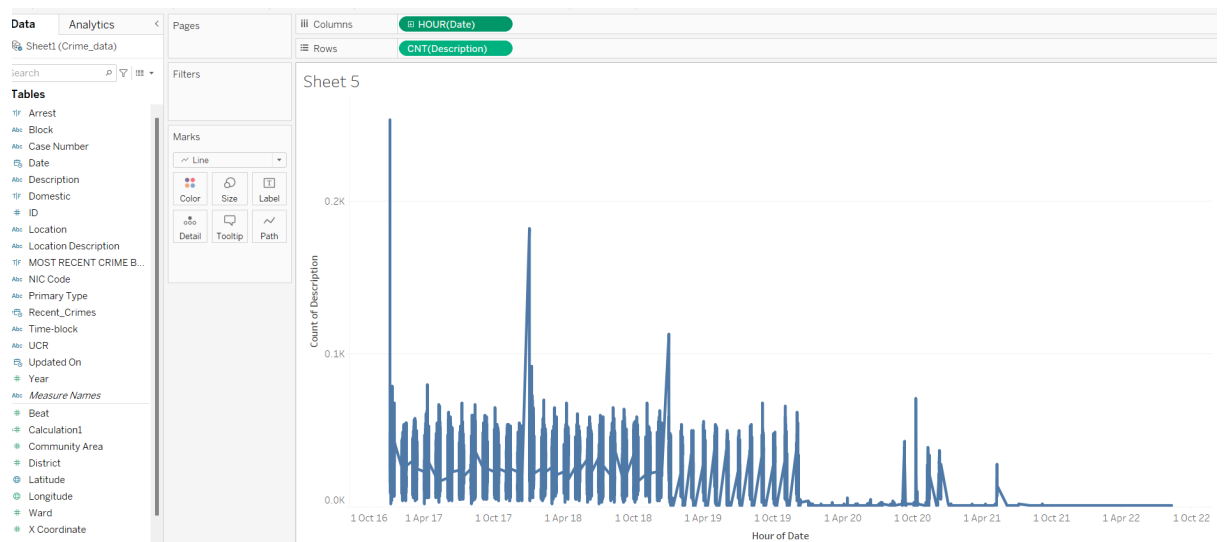
Sheet 4

Description	Location Description	Day of Updated On	
\$500 AND UNDER	APARTMENT	23 April 2021	Abc
DOMESTIC BATTERY..	SMALL RETAIL STORE	8 December 2021	Abc
	STREET	8 December 2021	Abc
OVER \$500	STREET	1 February 2023	Abc
SIMPLE	RESIDENCE	24 April 2021	Abc
TO VEHICLE	STREET	8 December 2021	Abc

This is the most recently recorded crime.

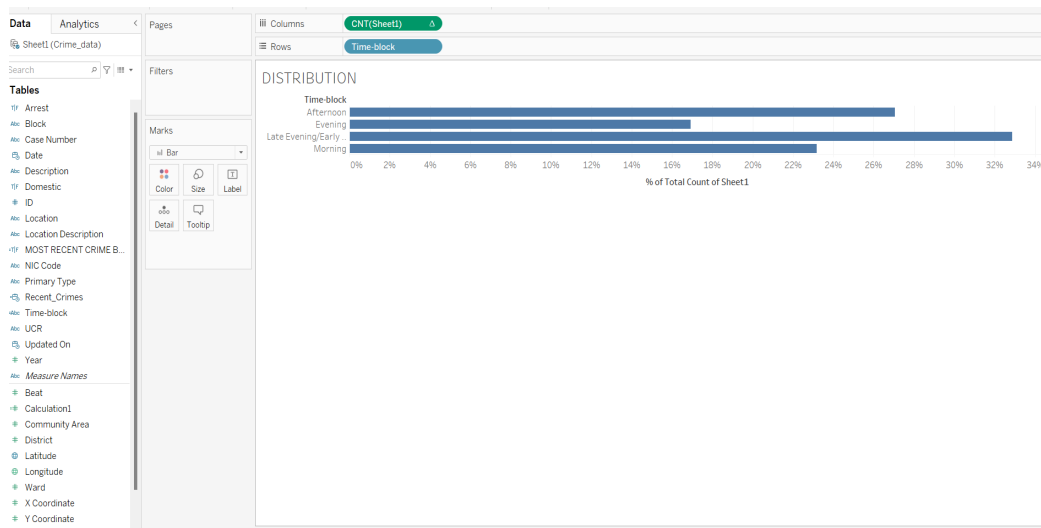
Time Period Analysis Dashboard:

- Study distribution count of crime incidents across different time periods such as day of the week or hour.



Crime incidents during the first week of 2017 were more.

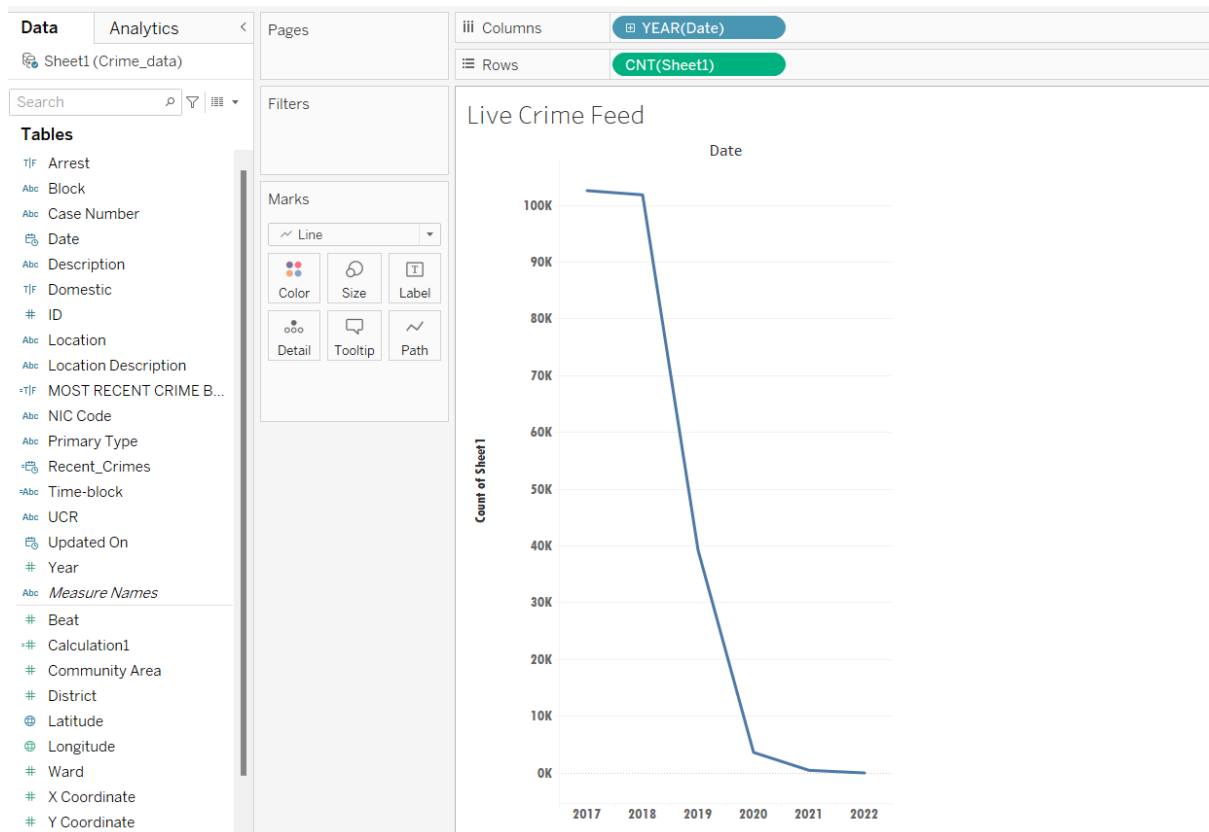
- Further explore the percentage of incident reporting for several time blocks (afternoon, evening, early morning, etc.).



Late evening and early morning crime is more than afternoon, evening, and morning crime.

Trend Analysis Dashboard:

1. Create a dashboard to study the change in crime rate over different years.



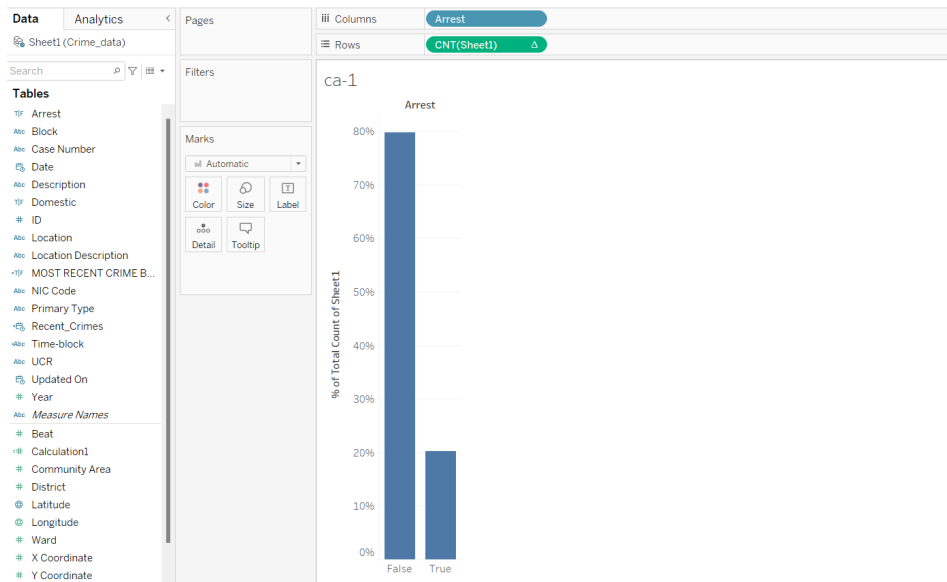
Compare the change in the incident reporting over the years for the same date and time.



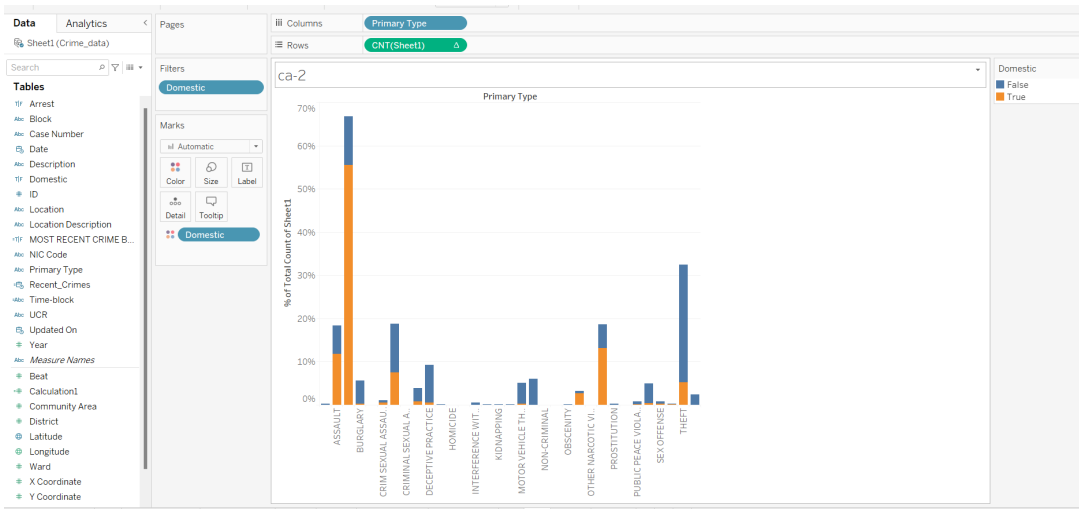
From this graph, we can say that the crime rate has decreased over time.

Comparative Analysis:

1. Study the distribution of incidents reported where an arrest was made vs. not.



Identify what percentage of the reported incidents under each incident category are domestic.



Here, is the dashboard of the crime analysis:

