SIMPLILEARN CRIME ANALYSIS TABLEAU PROJECT

BY- ANKITA KALA-15/07/2025

In this project, I assumed the role of a Data Analyst within the research wing of the police department. The primary objective was to analyze historical crime data using Tableau to uncover patterns, trends, and geographic hotspots of criminal activity. By transforming raw data into interactive dashboards and visual stories, the aim was to assist law enforcement agencies in making informed decisions for criminal investigations, resource allocation, and preventive strategies.

This crime analysis project involves time series analysis, category-wise segmentation of crimes, and geographical mapping to identify high-risk areas. The dashboards are designed to deliver actionable insights in a visually intuitive manner, enabling stakeholders to quickly interpret complex datasets. Ultimately, this analysis supports the department in reducing crime rates and improving public safety through data-driven strategies.

Action

Created four interactive Tableau dashboards to support the police department in analyzing crime data:

1.Overall Crime Statistics Dashboard – Mapped crime locations on a geo-map, highlighted most common incidents, and included a live feed showing total and recent crimes.

2.Time Period Analysis Dashboard – Analyzed crime patterns by day, hour, and time blocks (morning to night) to identify peak crime periods.

3.Trend Analysis Dashboard – Visualized year-over-year changes in crime rates and compared incident trends for the same date/time across years.

4.Comparative Analysis Dashboard – Compared incidents with and without arrests, analyzed severity by category, and added filters for type and location for deeper insights.

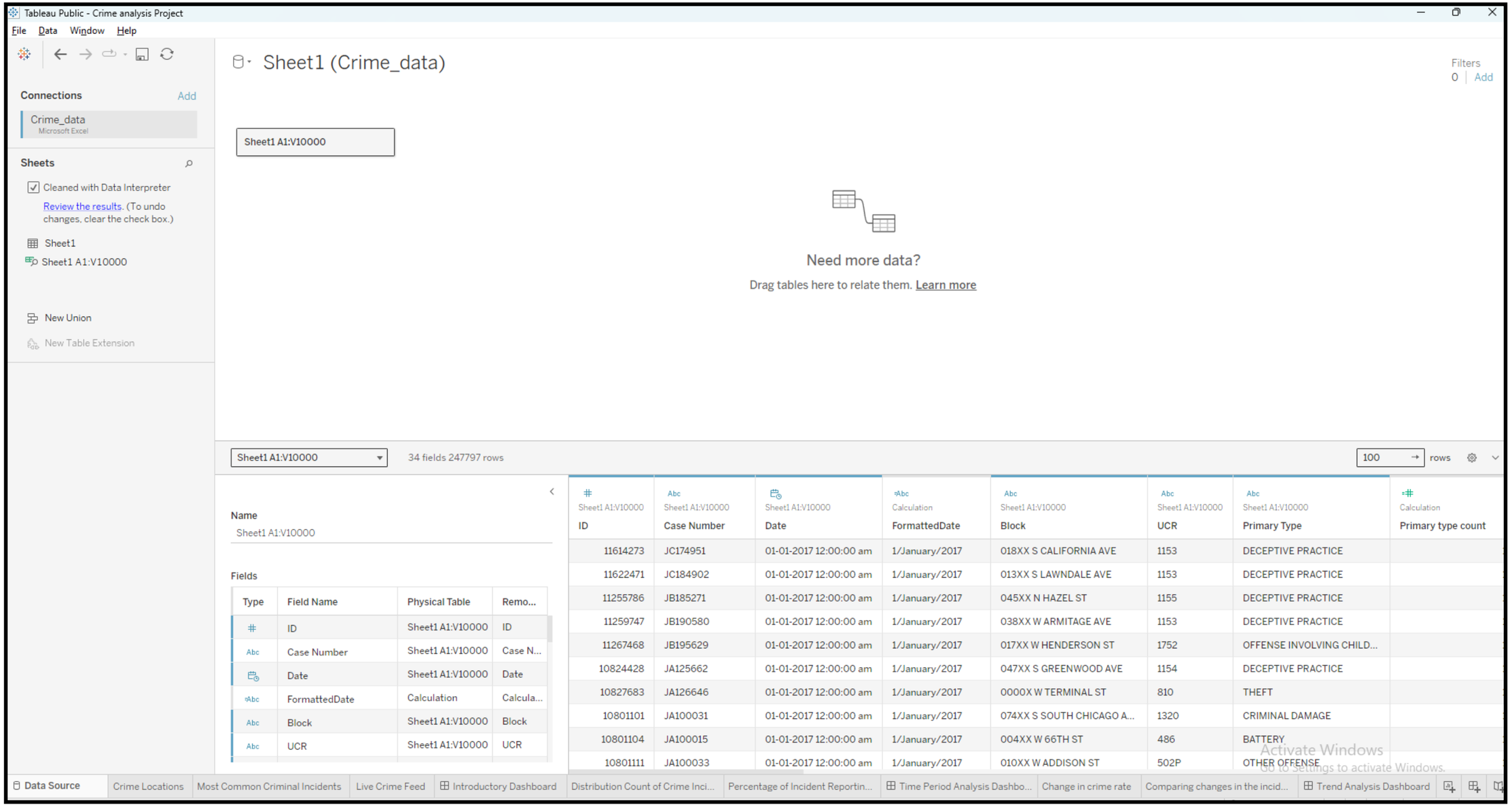
Tableau Public - Crime analysis Project
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Activate Windows
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Crime Locations
Most Common Criminal Incidents
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Time Period Analysis Dashbo...
Change in crime rate
Comparing changes in the incid...
Trend Analysis Dashboard

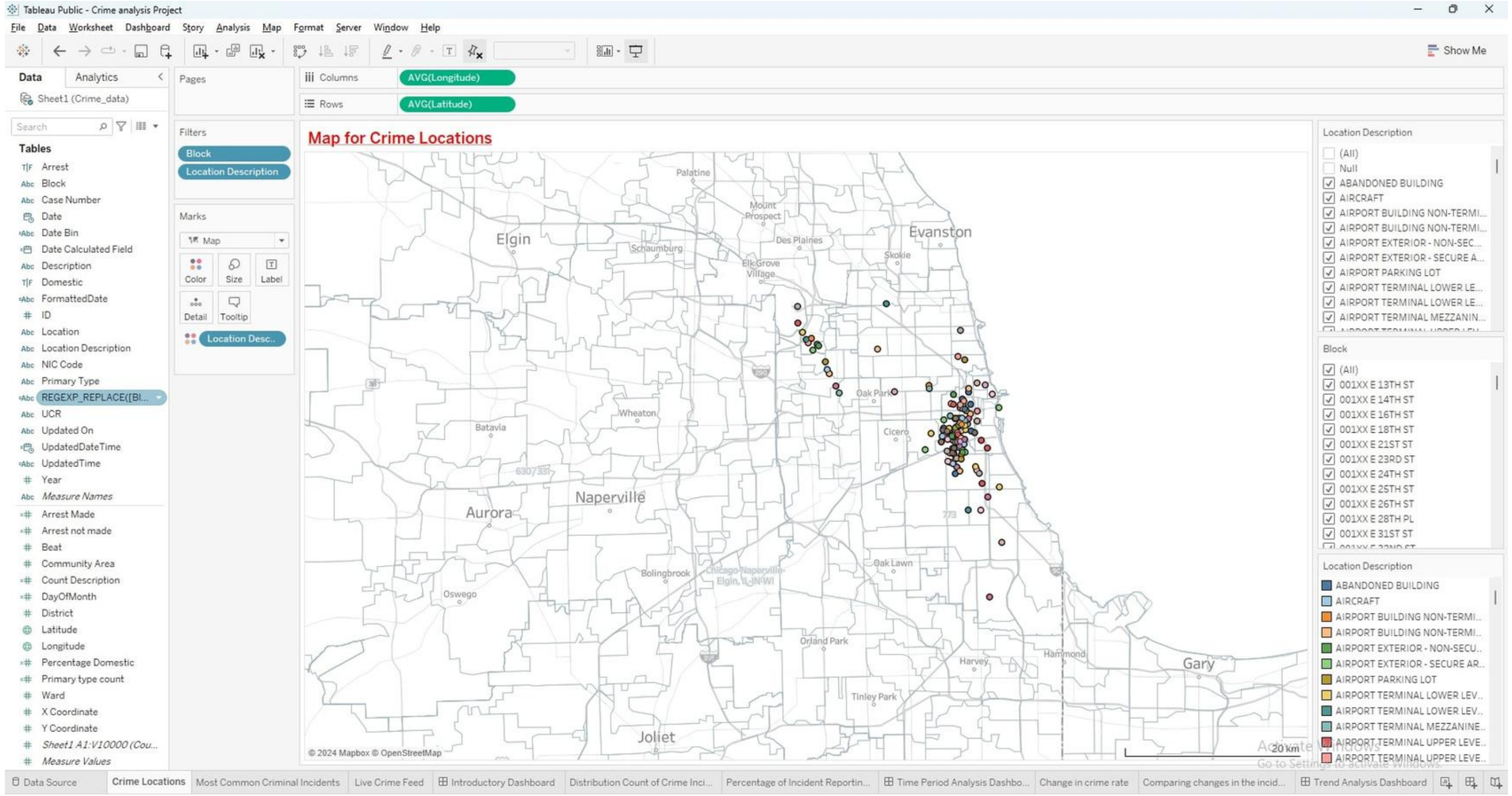
Tableau Public - Crime analysis Project
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© 2024 Mapbox © OpenStreetMap
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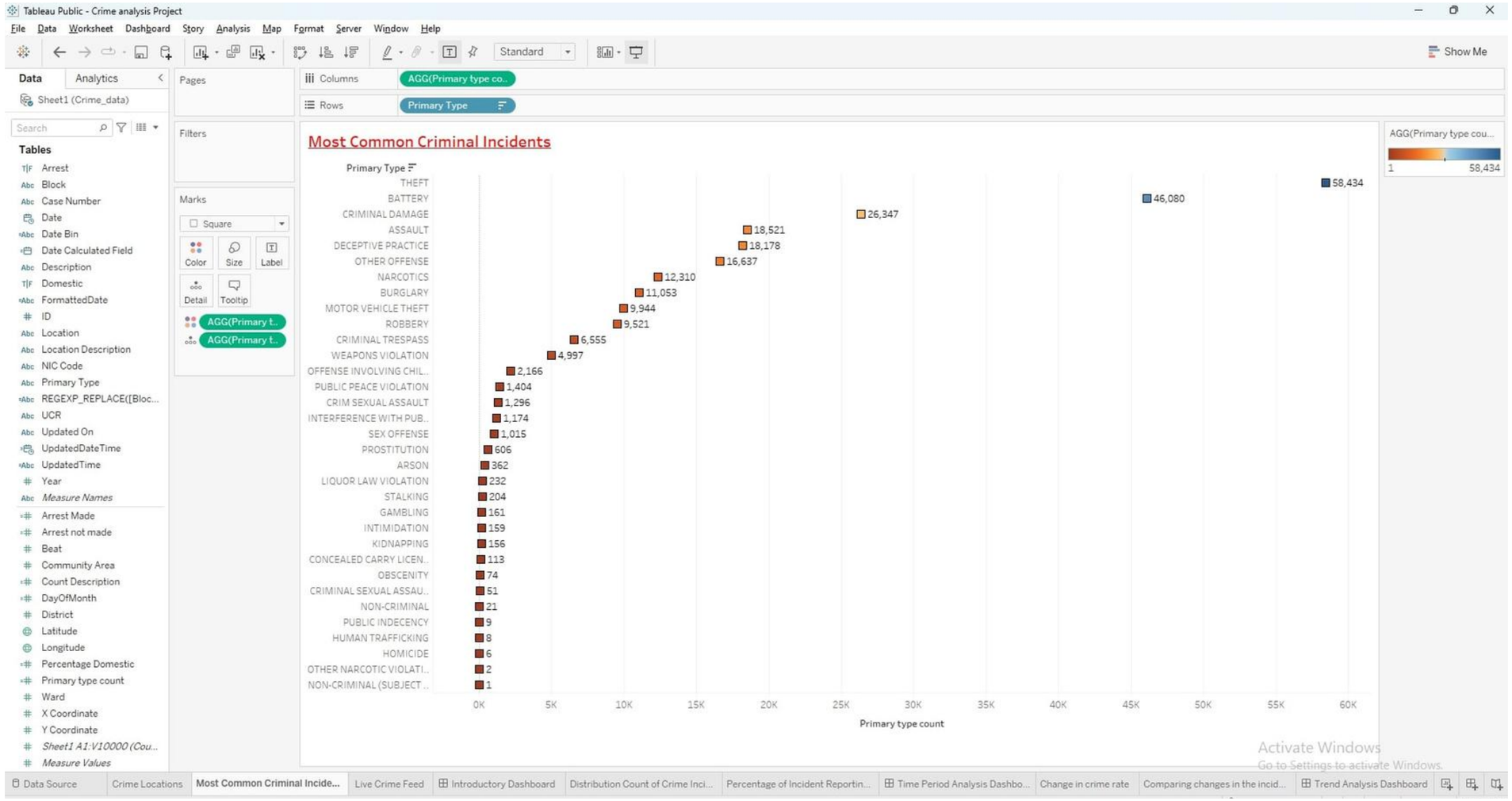
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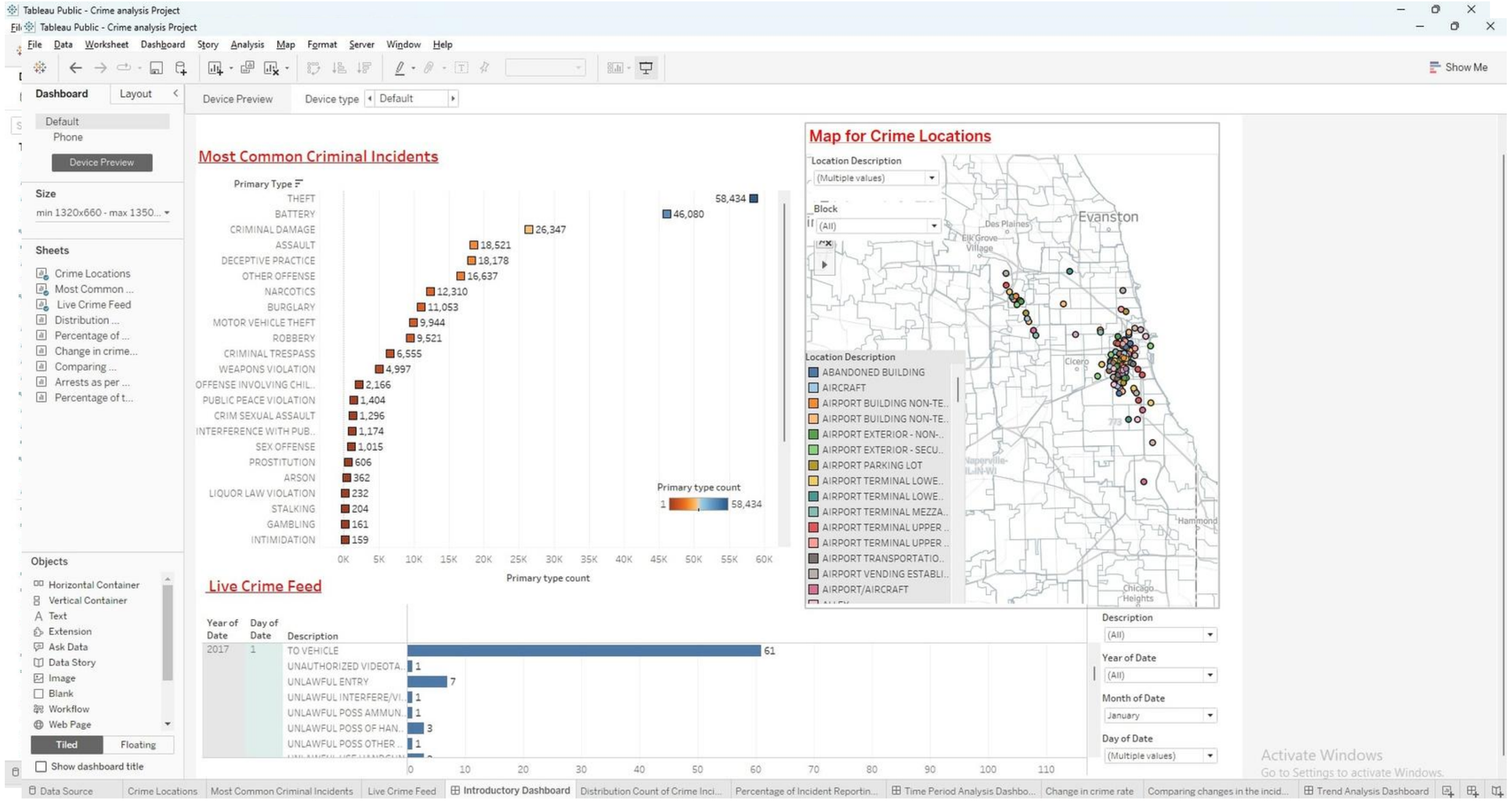
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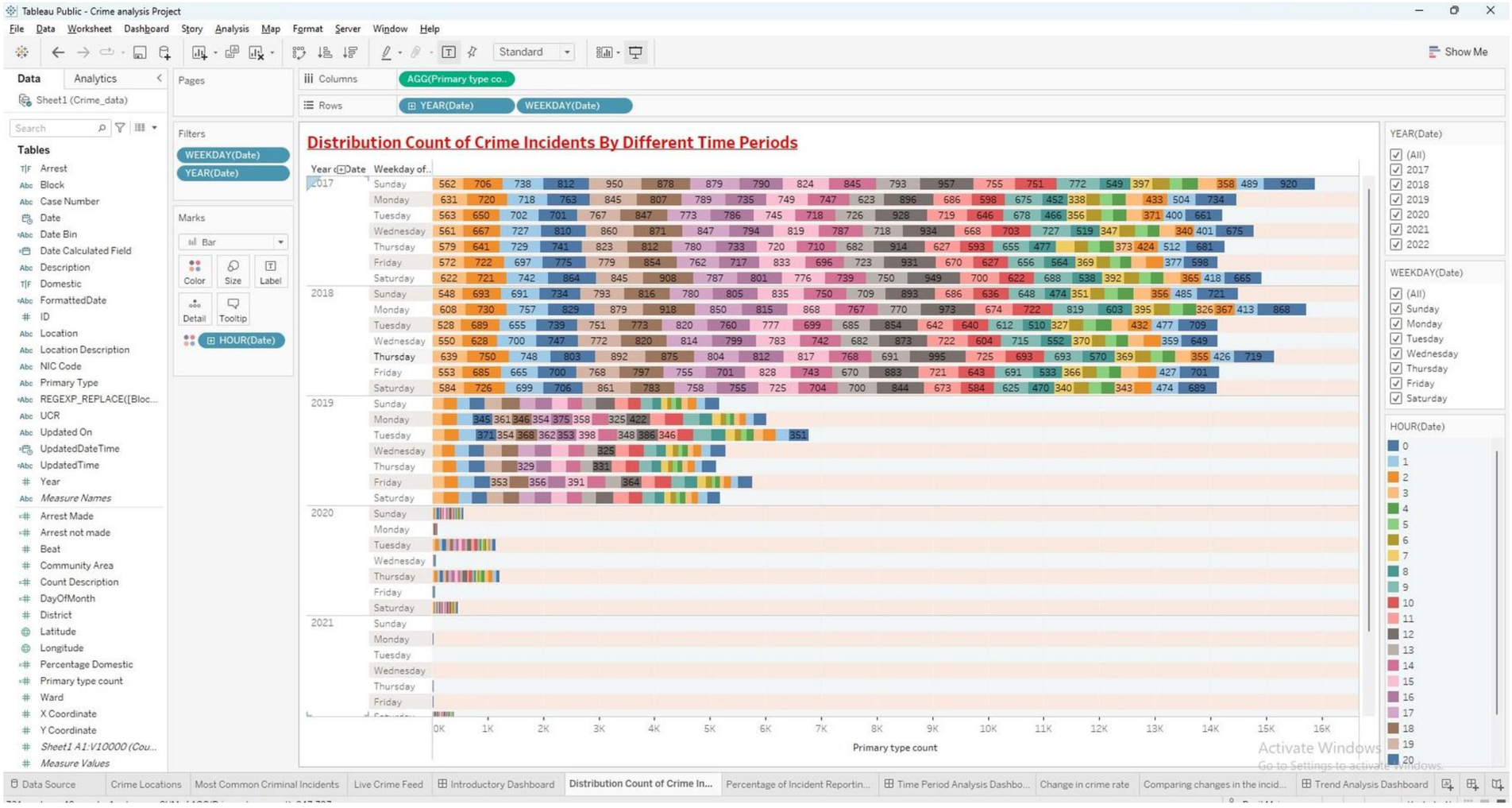
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Data Source
Crime Locations
Most Common Criminal Incidents
Live Crime Feed
Introductory Dashboard
Distribution Count of Crime In...
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Time Period Analysis Dashbo...
Change in crime rate
Comparing changes in the incid...
Trend Analysis Dashboard

Tableau Public - Crime analysis Project
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
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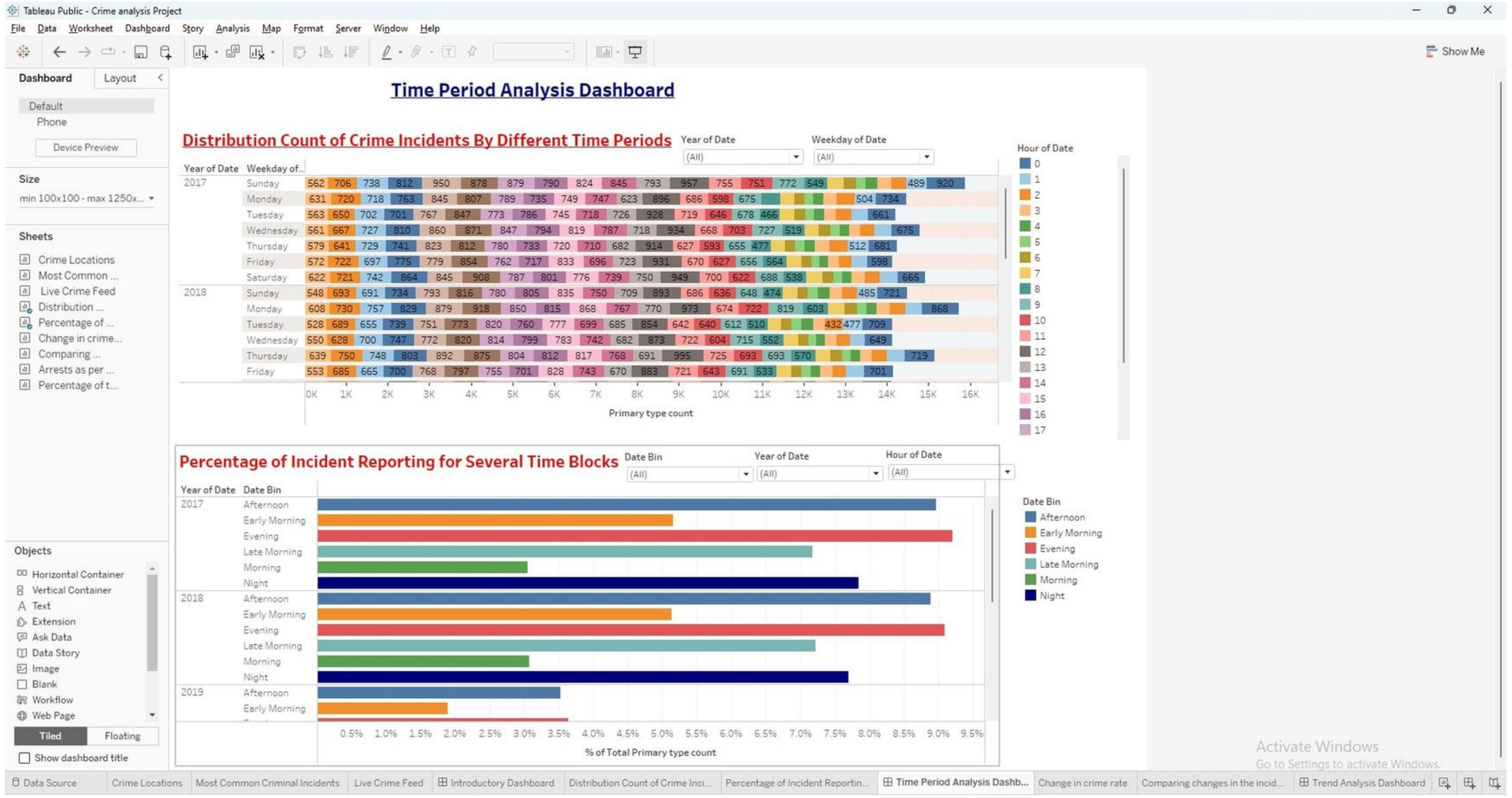
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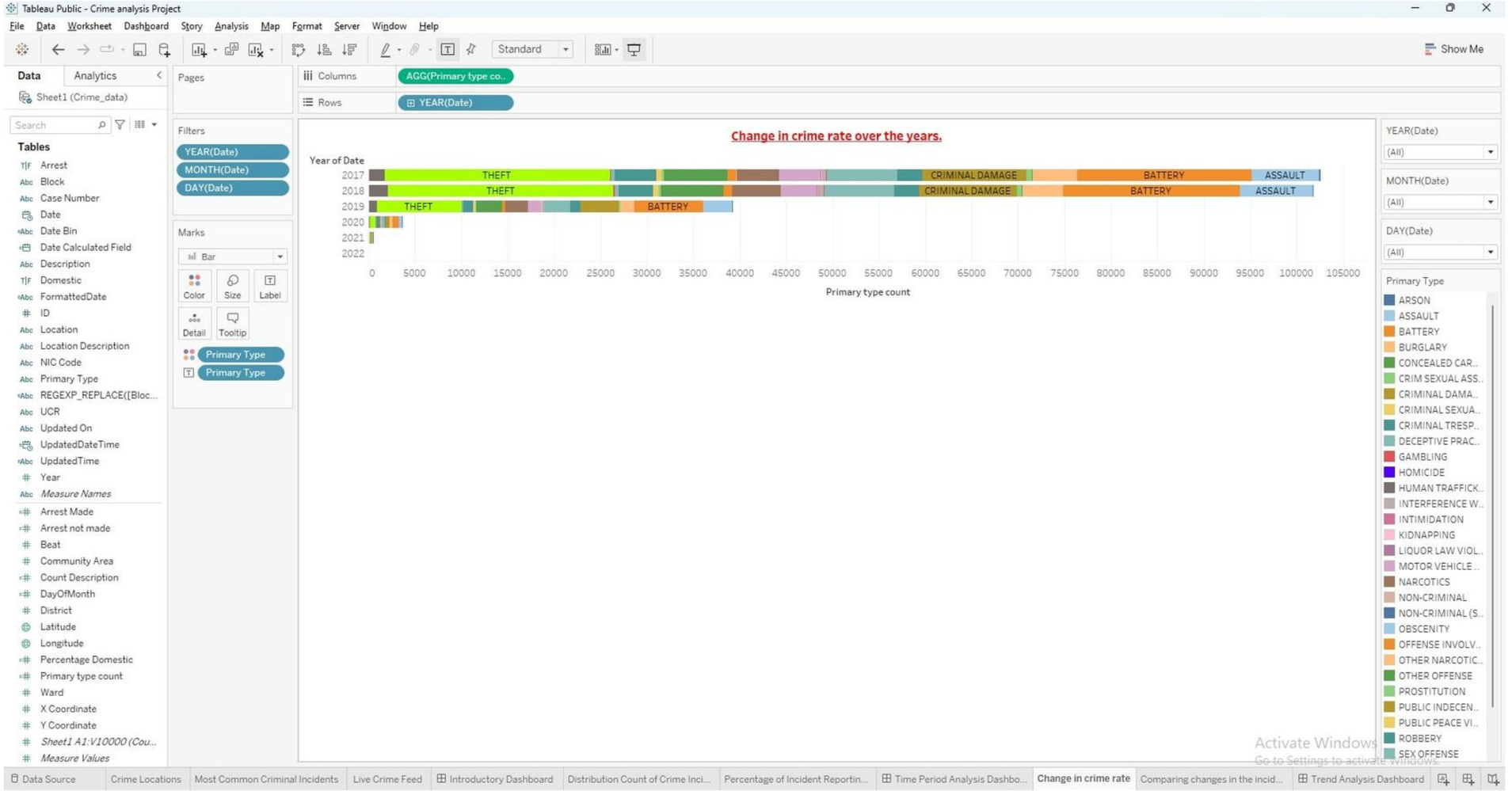
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Change in crime rate over the years.
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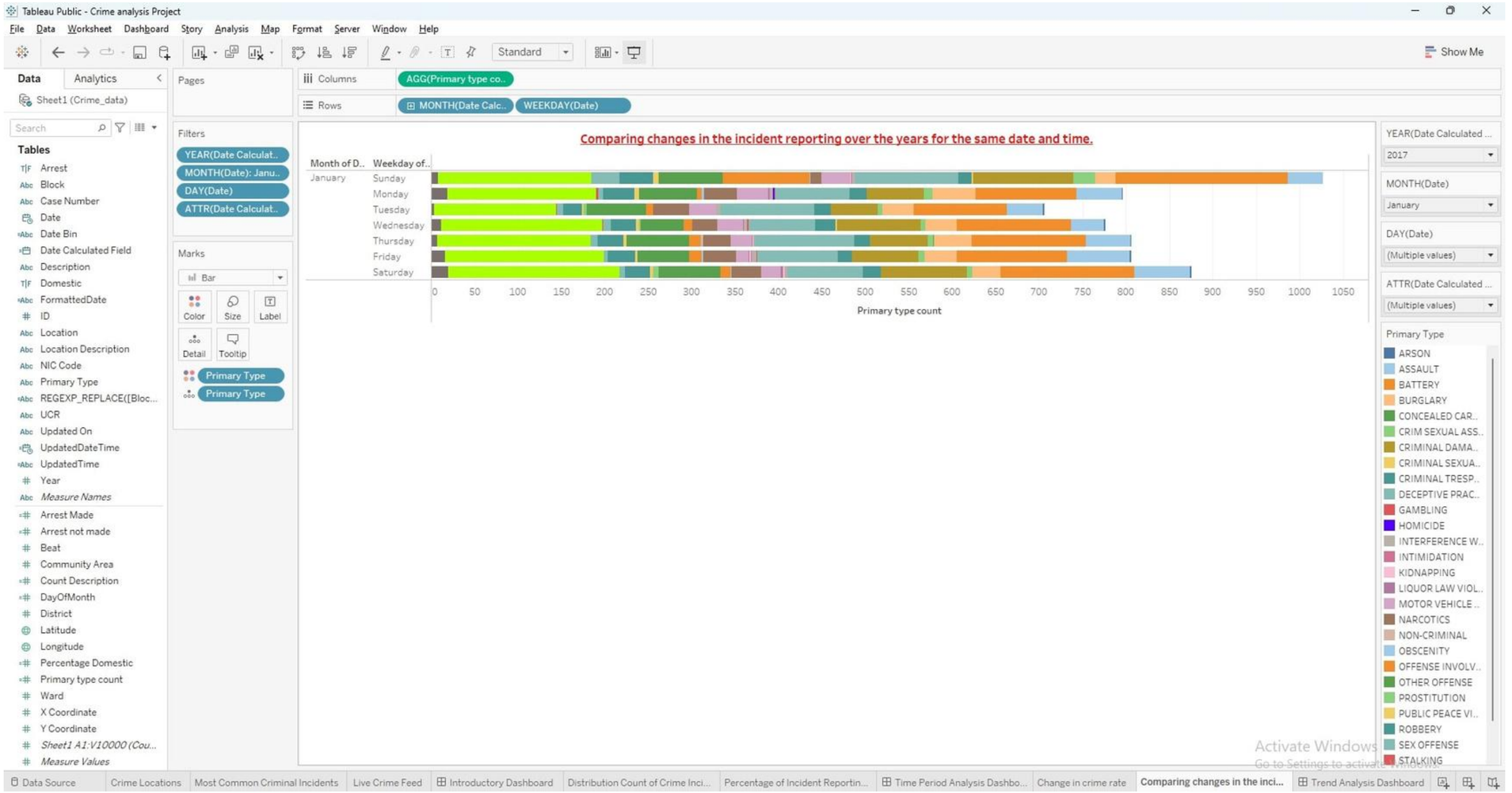
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Weekday of..
January
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050
Primary type count
YEAR(Date Calculated ...
2017
MONTH(Date)
January
DAY(Date)
(Multiple values)
ATTR(Date Calculated ...
(Multiple values)
Primary Type
ARSON
ASSAULT
BATTERY
BURGLARY
CONCEALED CAR..
CRIM SEXUAL ASS..
CRIMINAL DAMA..
CRIMINAL SEXUA..
CRIMINAL TRESP..
DECEPTIVE PRAC..
GAMBLING
HOMICIDE
INTERFERENCE W..
INTIMIDATION
KIDNAPPING
LIQUOR LAW VIOL..
MOTOR VEHICLE ..
NARCOTICS
NON-CRIMINAL
OBSCENITY
OFFENSE INVOLV..
OTHER OFFENSE
PROSTITUTION
PUBLIC PEACE VI..
ROBBERY
SEX OFFENSE
STALKING
Activate Windows
Go to Settings to activate Windows.
Data Source
Crime Locations
Most Common Criminal Incidents
Live Crime Feed
Introductory Dashboard
Distribution Count of Crime Inci...
Percentage of Incident Reportin...
Time Period Analysis Dashbo...
Change in crime rate
Comparing changes in the inci...
Trend Analysis Dashboard

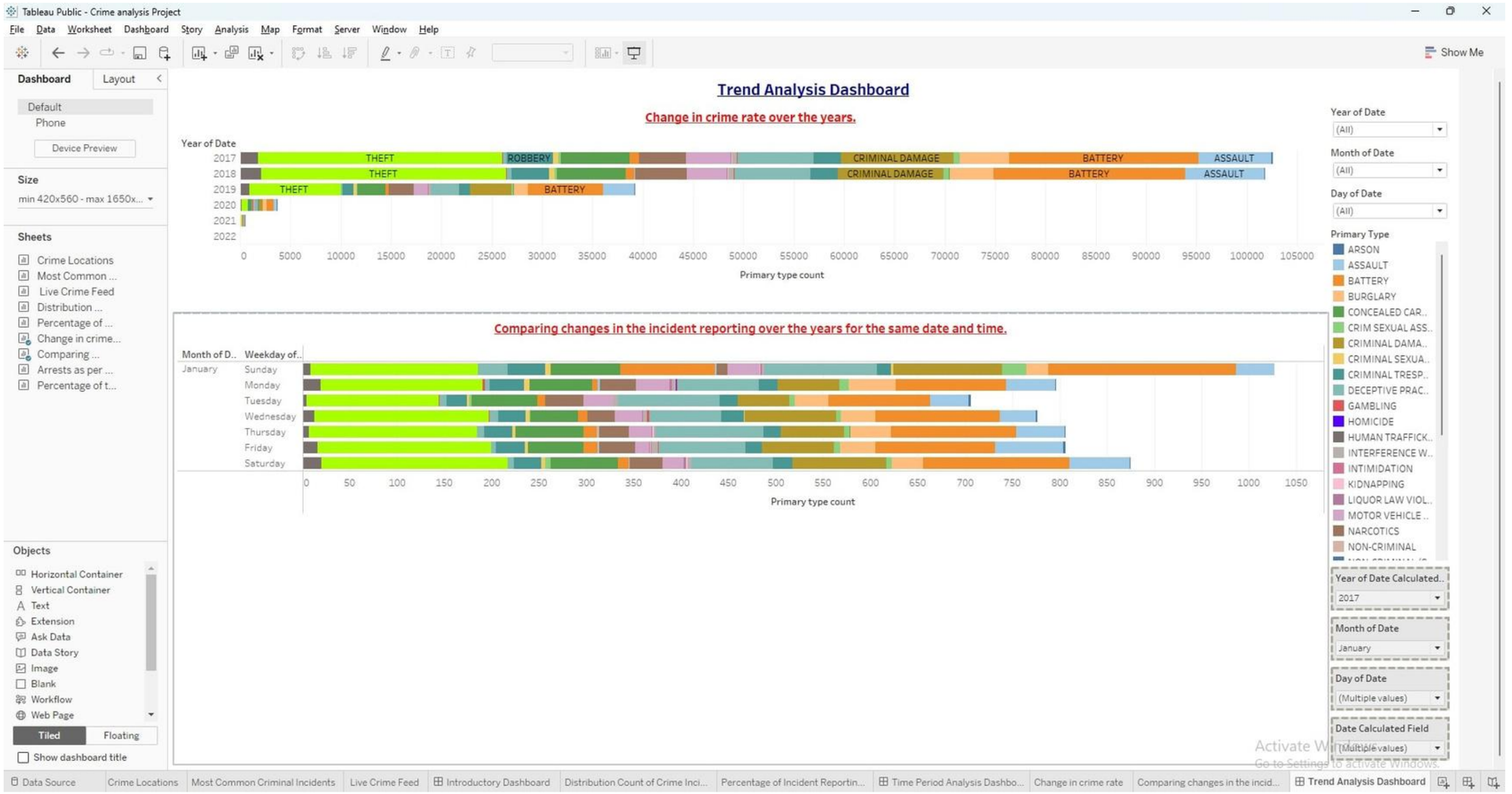


Tableau Public - Crime analysis Project
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Show Me
Dashboard Layout
Default
Phone
Device Preview
Size
min 420x560 - max 1650x...
Sheets
Crime Locations
Most Common ...
Live Crime Feed
Distribution ...
Percentage of ...
Change in crime...
Comparing ...
Arrests as per ...
Percentage of t...
Objects
Horizontal Container
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
Web Page
Tiled
Floating
Show dashboard title
Trend Analysis Dashboard
Change in crime rate over the years.
Year of Date
2017 THEFT ROBBERY CRIMINAL DAMAGE BATTERY ASSAULT
2018 THEFT CRIMINAL DAMAGE BATTERY ASSAULT
2019 THEFT BATTERY
2020
2021
2022
0 5000 10000 15000 20000 25000 30000 35000 40000 45000 50000 55000 60000 65000 70000 75000 80000 85000 90000 95000 100000 105000
Primary type count
Comparing changes in the incident reporting over the years for the same date and time.
Month of D..
Weekday of..
January
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050
Primary type count
Year of Date
(All)
Month of Date
(All)
Day of Date
(All)
Primary Type
ARSON
ASSAULT
BATTERY
BURGLARY
CONCEALED CAR..
CRIM SEXUAL ASS..
CRIMINAL DAMA..
CRIMINAL SEXUA..
CRIMINAL TRESP..
DECEPTIVE PRAC..
GAMBLING
HOMICIDE
HUMAN TRAFFICK..
INTERFERENCE W..
INTIMIDATION
KIDNAPPING
LIQUOR LAW VIOL..
MOTOR VEHICLE ..
NARCOTICS
NON-CRIMINAL
Year of Date Calculated..
2017
Month of Date
January
Day of Date
(Multiple values)
Date Calculated Field
(Multiple values)
Activate Windows
Go to Settings to activate Windows.
Data Source
Crime Locations
Most Common Criminal Incidents
Live Crime Feed
Introductory Dashboard
Distribution Count of Crime Inci...
Percentage of Incident Reportin...
Time Period Analysis Dashbo...
Change in crime rate
Comparing changes in the incid...
Trend Analysis Dashboard

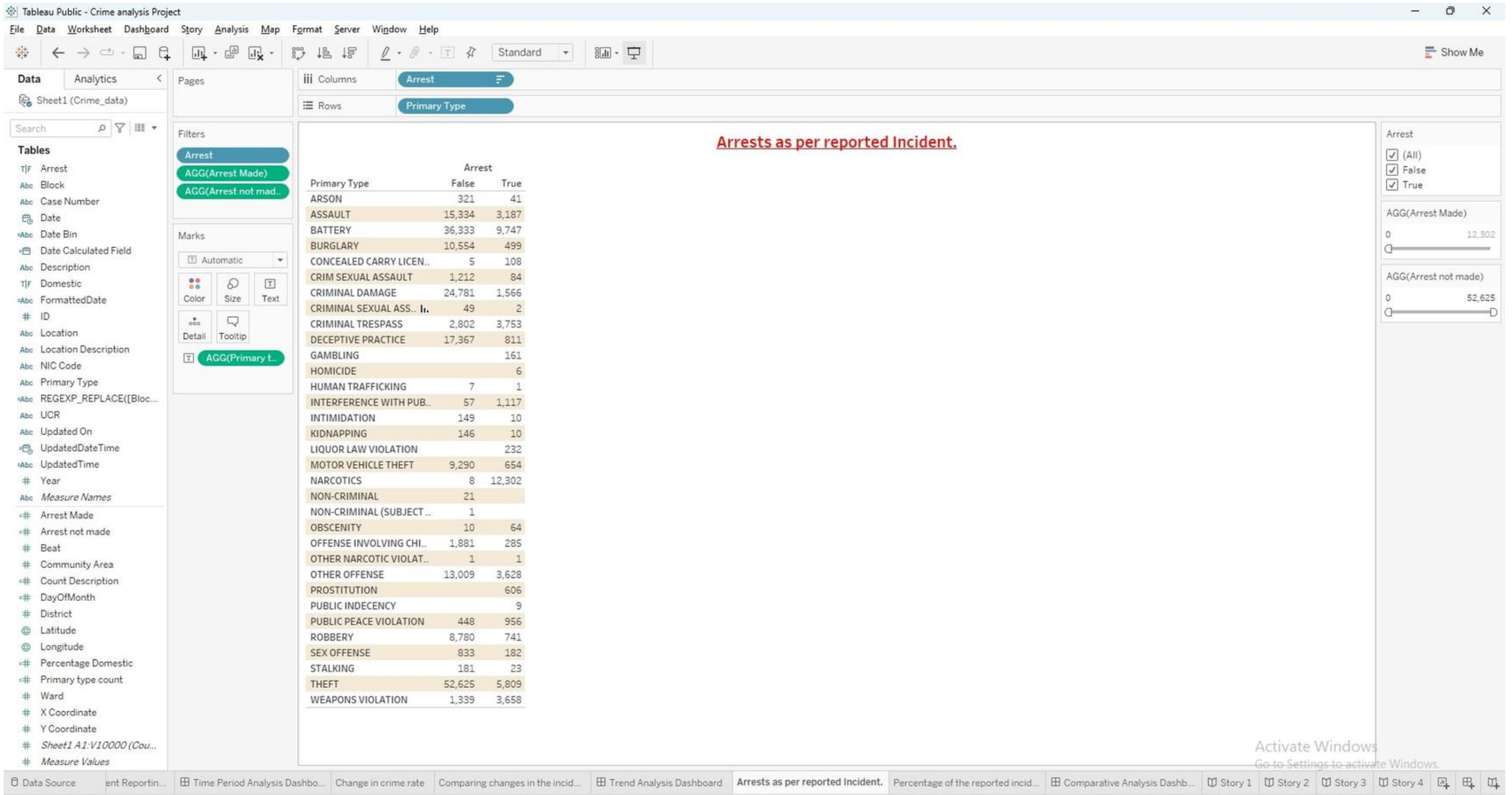
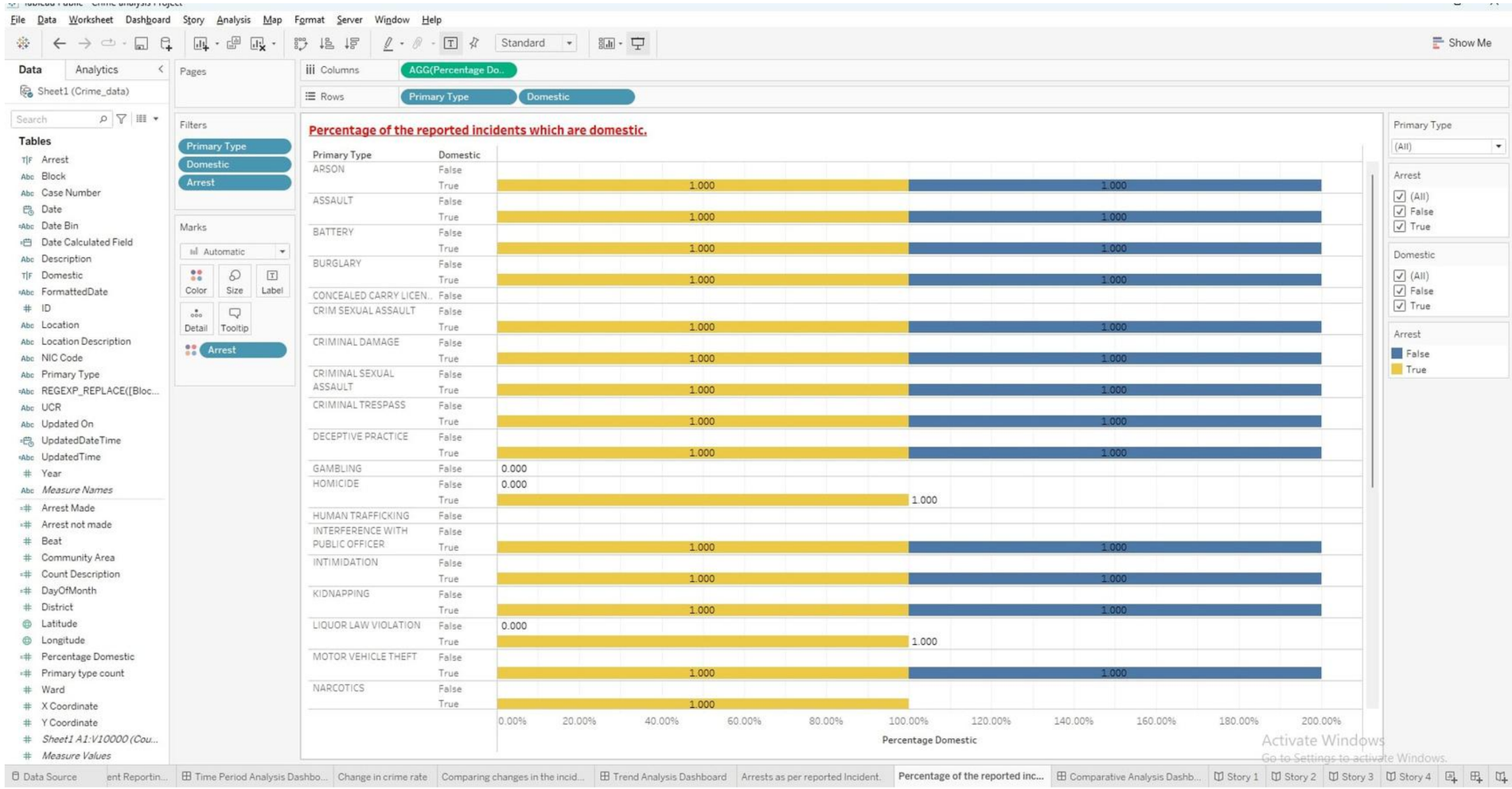


Tableau Public - Crime analysis Project
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
Sheet1 (Crime_data)
Search
Tables
Arrest
Block
Case Number
Date
Date Bin
Date Calculated Field
Description
Domestic
FormattedDate
ID
Location
Location Description
NIC Code
Primary Type
REGEXP_REPLACE([Bloc...
UCR
Updated On
UpdatedDateTime
UpdatedTime
Year
Measure Names
Arrest Made
Arrest not made
Beat
Community Area
Count Description
DayOfMonth
District
Latitude
Longitude
Percentage Domestic
Primary type count
Ward
X Coordinate
Y Coordinate
Sheet1 A1:V10000 (Cou...
Measure Values
Pages
Columns
Arrest
Rows
Primary Type
Filters
Arrest
AGG(Arrest Made)
AGG(Arrest not mad..
Marks
Automatic
Color
Size
Text
Detail
Tooltip
AGG(Primary t..
Arrests as per reported Incident.
Arrest
Primary Type False True
ARSON 321 41
ASSAULT 15,334 3,187
BATTERY 36,333 9,747
BURGLARY 10,554 499
CONCEALED CARRY LICEN.. 5 108
CRIM SEXUAL ASSAULT 1,212 84
CRIMINAL DAMAGE 24,781 1,566
CRIMINAL SEXUAL ASS.. 49 2
CRIMINAL TRESPASS 2,802 3,753
DECEPTIVE PRACTICE 17,367 811
GAMBLING 161
HOMICIDE 6
HUMAN TRAFFICKING 7 1
INTERFERENCE WITH PUB.. 57 1,117
INTIMIDATION 149 10
KIDNAPPING 146 10
LIQUOR LAW VIOLATION 232
MOTOR VEHICLE THEFT 9,290 654
NARCOTICS 8 12,302
NON-CRIMINAL 21
NON-CRIMINAL (SUBJECT .. 1
OBSCENITY 10 64
OFFENSE INVOLVING CHI.. 1,881 285
OTHER NARCOTIC VIOLAT.. 1 1
OTHER OFFENSE 13,009 3,628
PROSTITUTION 606
PUBLIC INDECENCY 9
PUBLIC PEACE VIOLATION 448 956
ROBBERY 8,780 741
SEX OFFENSE 833 182
STALKING 181 23
THEFT 52,625 5,809
WEAPONS VIOLATION 1,339 3,658
Arrest
(All)
False
True
AGG(Arrest Made)
0 12,302
AGG(Arrest not made)
0 52,625
Activate Windows
Go to Settings to activate Windows.
Data Source
ent Reportin...
Time Period Analysis Dashbo...
Change in crime rate
Comparing changes in the incid...
Trend Analysis Dashboard
Arrests as per reported Incident.
Percentage of the reported incid...
Comparative Analysis Dashb...
Story 1
Story 2
Story 3
Story 4


File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
Sheet1 (Crime_data)
Search
Tables
Arrest
Block
Case Number
Date
Date Bin
Date Calculated Field
Description
Domestic
FormattedDate
ID
Location
Location Description
NIC Code
Primary Type
REGEXP_REPLACE([Bloc...
UCR
Updated On
UpdatedDateTime
UpdatedTime
Year
Measure Names
Arrest Made
Arrest not made
Beat
Community Area
Count Description
DayOfMonth
District
Latitude
Longitude
Percentage Domestic
Primary type count
Ward
X Coordinate
Y Coordinate
Sheet1 A1:V10000 (Cou...
Measure Values
Pages
Columns
AGG(Percentage Do...
Rows
Primary Type
Domestic
Filters
Primary Type
Domestic
Arrest
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Arrest
Percentage of the reported incidents which are domestic.
Primary Type
Domestic
ARSON
ASSAULT
BATTERY
BURGLARY
CONCEALED CARRY LICEN..
CRIM SEXUAL ASSAULT
CRIMINAL DAMAGE
CRIMINAL SEXUAL ASSAULT
CRIMINAL TRESPASS
DECEPTIVE PRACTICE
GAMBLING
HOMICIDE
HUMAN TRAFFICKING
INTERFERENCE WITH PUBLIC OFFICER
INTIMIDATION
KIDNAPPING
LIQUOR LAW VIOLATION
MOTOR VEHICLE THEFT
NARCOTICS
False
True
1.000
0.000
0.00%
20.00%
40.00%
60.00%
80.00%
100.00%
120.00%
140.00%
160.00%
180.00%
200.00%
Percentage Domestic
Primary Type
(All)
Arrest
(All)
False
True
Domestic
(All)
False
True
Arrest
False
True
Activate Windows
Go to Settings to activate Windows.
Data Source
Time Period Analysis Dashbo...
Change in crime rate
Comparing changes in the incid...
Trend Analysis Dashboard
Arrests as per reported Incident.
Percentage of the reported inc...
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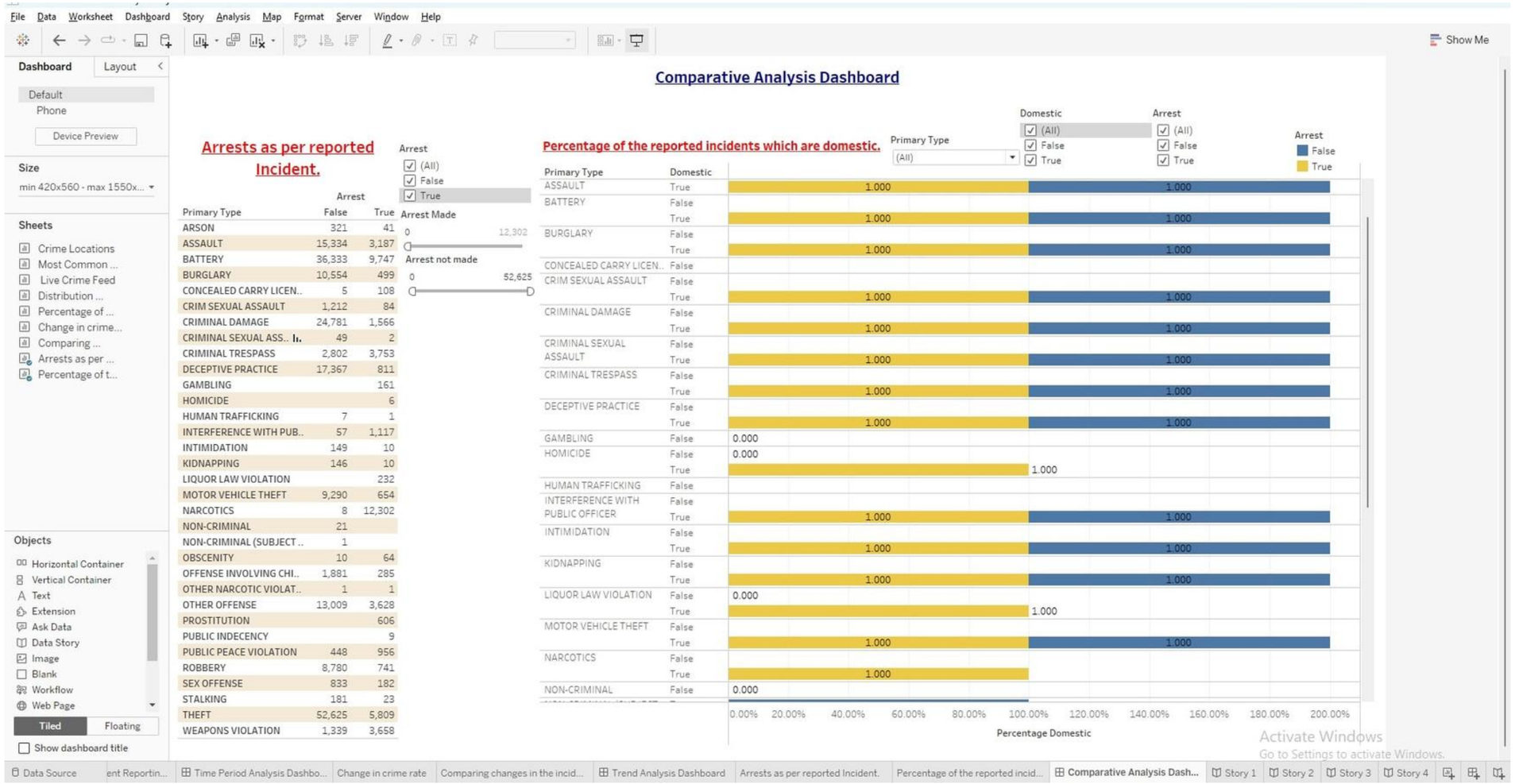
Story 1
Story 2
Story 3
Story 4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Dashboard Layout
Default
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Device Preview
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Crime Locations
Most Common ...
Live Crime Feed
Distribution ...
Percentage of ...
Change in crime...
Comparing ...
Arrests as per ...
Percentage of t...
Objects
Horizontal Container
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
Web Page
Tiled
Floating
Show dashboard title
Comparative Analysis Dashboard
Arrests as per reported Incident.
Arrest
(All)
False
True
Arrest Made
0
12,302
Arrest not made
0
52,625
Primary Type | Arrest: False | Arrest: True
ARSON 321 41
ASSAULT 15,334 3,187
BATTERY 36,333 9,747
BURGLARY 10,554 499
CONCEALED CARRY LICEN.. 5 108
CRIM SEXUAL ASSAULT 1,212 84
CRIMINAL DAMAGE 24,781 1,566
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NON-CRIMINAL 21
NON-CRIMINAL (SUBJECT .. 1
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OTHER OFFENSE 13,009 3,628
PROSTITUTION 606
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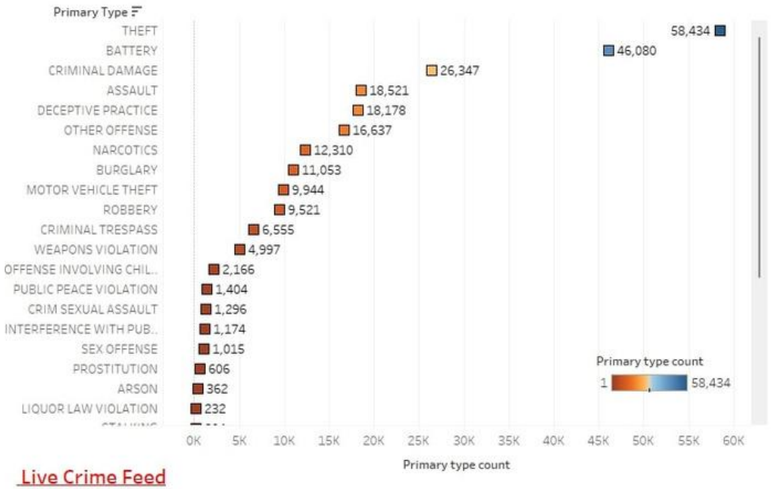
PUBLIC PEACE VIOLATION 448 956
ROBBERY 8,780 741
SEX OFFENSE 833 182
STALKING 181 23
THEFT 52,625 5,809
WEAPONS VIOLATION 1,339 3,658
Percentage of the reported incidents which are domestic.
Primary Type
(All)
Domestic
(All)
False
True
Arrest
(All)
False
True
Arrest
False
True
Primary Type | Domestic
ASSAULT True 1.000 1.000
BATTERY False
True 1.000 1.000
BURGLARY False
True 1.000 1.000
CONCEALED CARRY LICEN.. False
CRIM SEXUAL ASSAULT False
True 1.000 1.000
CRIMINAL DAMAGE False
True 1.000 1.000
CRIMINAL SEXUAL ASSAULT False
True 1.000 1.000
CRIMINAL TRESPASS False
True 1.000 1.000
DECEPTIVE PRACTICE False
True 1.000 1.000
GAMBLING False 0.000
HOMICIDE False 0.000
True 1.000
HUMAN TRAFFICKING False
INTERFERENCE WITH PUBLIC OFFICER False
True 1.000 1.000
INTIMIDATION False
True 1.000 1.000
KIDNAPPING False
True 1.000 1.000
LIQUOR LAW VIOLATION False 0.000
True 1.000
MOTOR VEHICLE THEFT False
True 1.000 1.000
NARCOTICS False
True 1.000
NON-CRIMINAL False 0.000
0.00% 20.00% 40.00% 60.00% 80.00% 100.00% 120.00% 140.00% 160.00% 180.00% 200.00%
Percentage Domestic
Activate Windows
Go to Settings to activate Windows.
Data Source
ent Reportin...
Time Period Analysis Dashbo...
Change in crime rate
Comparing changes in the incid...
Trend Analysis Dashboard
Arrests as per reported Incident.
Percentage of the reported incid...
Comparative Analysis Dash...
Story 1
Story 2
Story 3
Story 4

In this introductory dashboard, includes Most common crimes, Crime location and live crime feed

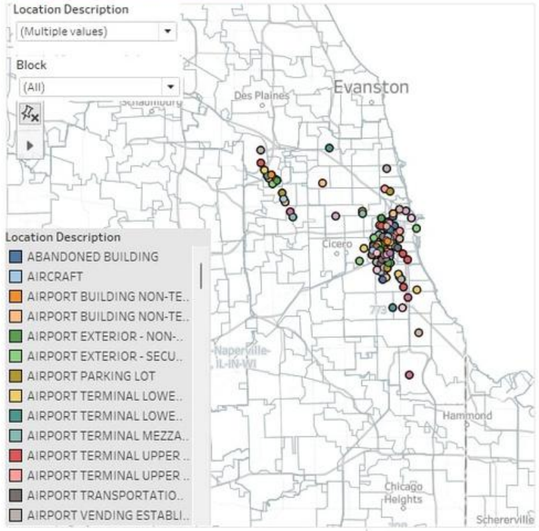
Time Analysis

Overall Crime Statistics Dashboard

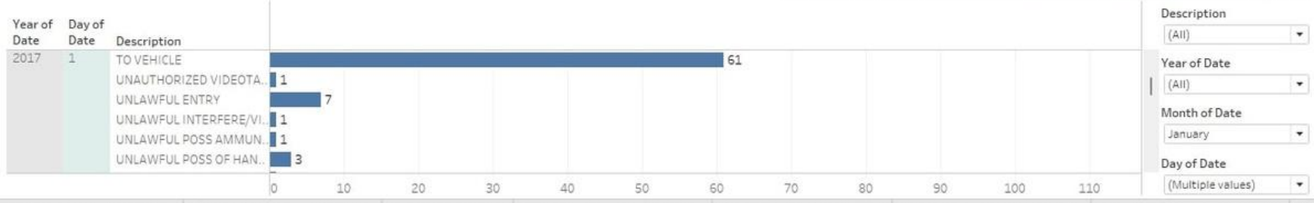
Most Common Criminal Incidents



Map for Crime Locations



Live Crime Feed

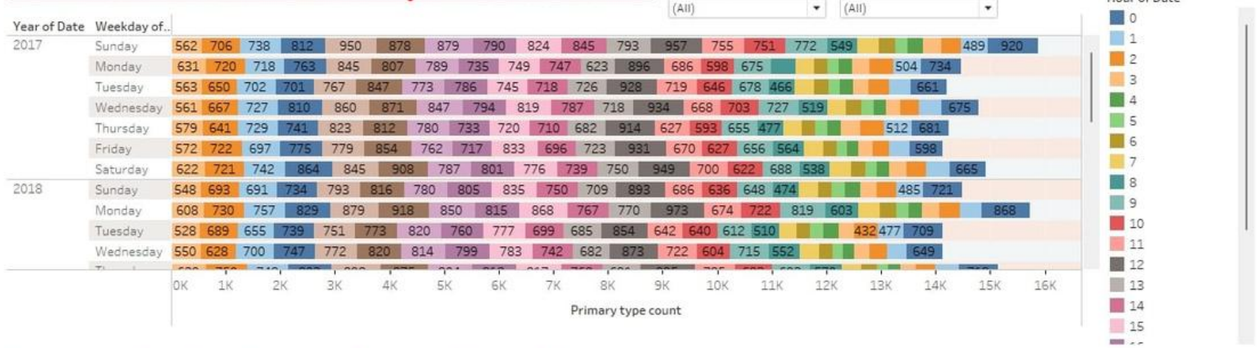


ercentage of Incident Reportin... | Time Period Analysis Dashbo... | Change in crime rate | Comparing changes in the incid... | Trend Analysis Dashboard | Arrests as per reported Incident. | Percentage of the reported incid... | Comparative

Time Period Analysis Dashboard

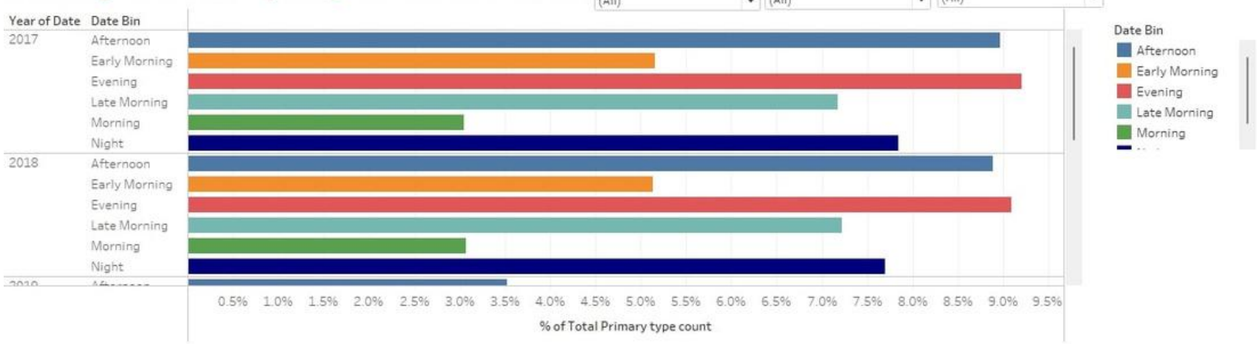
Distribution Count of Crime Incidents By Different Time Periods

Year of Date: (All)
Weekday of Date: (All)



Percentage of Incident Reporting for Several Time Blocks

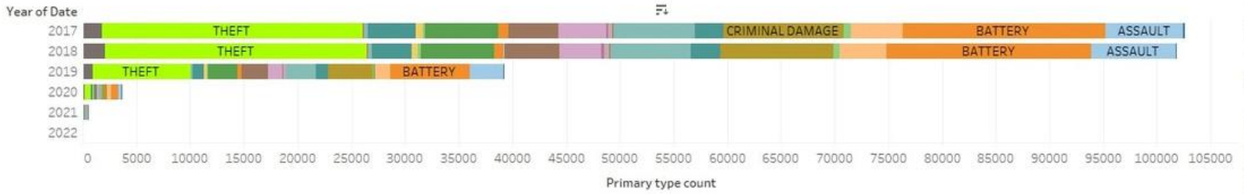
Date Bin: (All)
Year of Date: (All)
Hour of Date: (All)



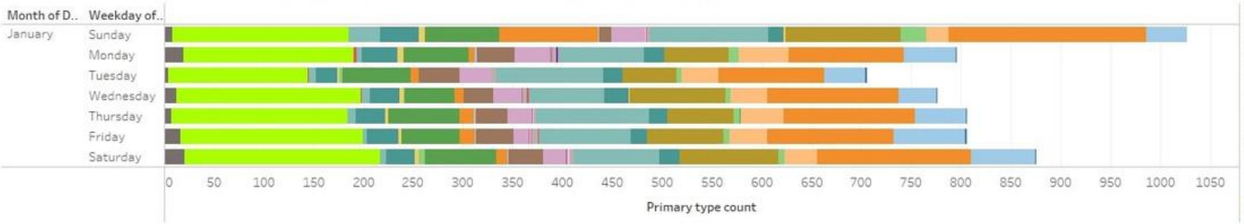
Trend and comparision of the trend through various years.

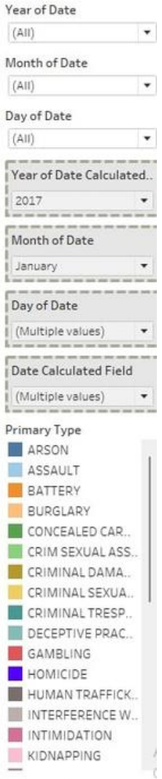
Trend Analysis Dashboard

Change in crime rate over the years.



Comparing changes in the incident reporting over the years for the same date and time.





Trend and comparision of the trend through various years.

Arest made and details of domestic report.

Comparative Analysis Dashboard

Arrests as per reported Incident.

Primary Type	Arrest False	Arrest True
ARSON	321	41
ASSAULT	15,334	3,187
BATTERY	36,333	9,747
BURGLARY	10,554	499
CONCEALED CARRY LICEN..	5	108
CRIM SEXUAL ASSAULT	1,212	84
CRIMINAL DAMAGE	24,781	1,566
CRIMINAL SEXUAL ASS..	49	2
CRIMINAL TRESPASS	2,802	3,753
DECEPTIVE PRACTICE	17,367	811
GAMBLING		161
HOMICIDE		6
HUMAN TRAFFICKING	7	1
INTERFERENCE WITH PUB..	57	1,117
INTIMIDATION	149	10
KIDNAPPING	146	10
LIQUOR LAW VIOLATION		232
MOTOR VEHICLE THEFT	9,290	654
NARCOTICS	8	12,302
NON-CRIMINAL	21	
NON-CRIMINAL (SUBJECT ..	1	
OBSCENITY	10	64
OFFENSE INVOLVING CHI..	1,881	285
OTHER NARCOTIC VIOLAT..	1	1
OTHER OFFENSE	13,009	3,628
PROSTITUTION		606
PUBLIC INDECENCY		9
PUBLIC PEACE VIOLATION	448	956
ROBBERY	8,780	741

Arrest
- (All)
- False
- True

Arrest Made
0 — 12,302

Arrest not made
0 — 52,625

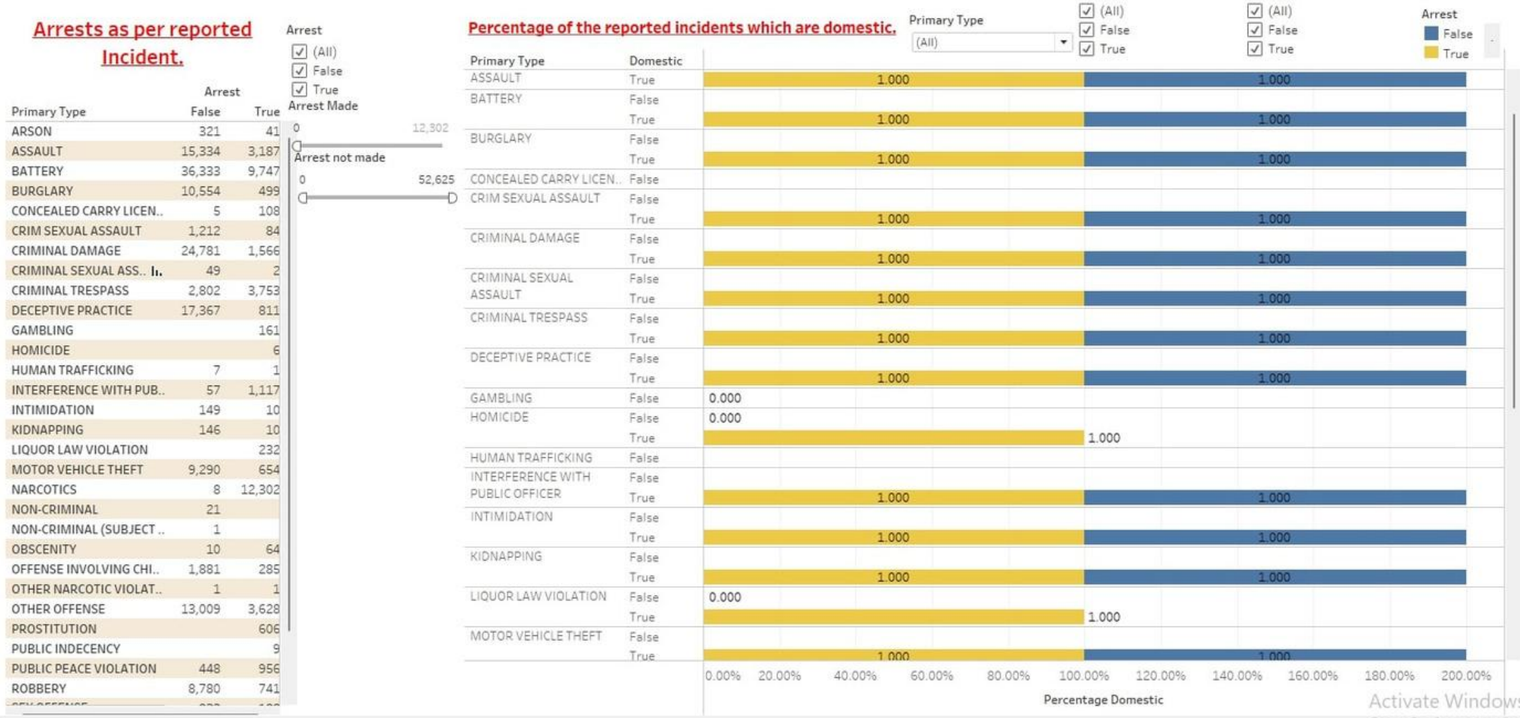
Percentage of the reported incidents which are domestic.

Primary Type: (All)

Domestic
- (All)
- False
- True

Arrest
- (All)
- False
- True

Arrest
- False
- True



Activate Windows
Go to Settings to activate Windows.

THANK YOU