Road Accident Dashboard - Tableau Project Report

➢ Project Overview:

The Road Accident Dashboard is an interactive Tableau visualization designed to analyze and present key insights about road accidents in UK. It allows users to monitor accident trends, casualty figures, and contributing factors using dynamic charts, filters, and KPIs.

➢ Dataset Used: https://www.kaggle.com/datasets/charliescott556/uk-vehicle-accident-database-2019-2022

➢ Objectives

- To visualize and compare yearly road accident statistics.
- To analyze casualties by vehicle type, road surface, weather conditions, and location.
- To provide interactive filtering (by year, accident severity).
- To help identify key factors contributing to serious accidents.

➢ Key Features

Filters & Parameters

- Current Year and Previous Year selectors (2019,2020,2021,2022)
- Accident severity selector (Serious, Fatal, Slight).

KPIs

- **Total Accidents**: 1,44,419 (↓ 11.70% YoY)
- **Total Casualties**: 1,95,737 (↓ 11.89% YoY)
- **Fatal Casualties**: 2,855 (↓ 26.40% YoY)
- **Serious Casualties**: 27,045 (↓ 16.30% YoY)
- **Slight Casualties**: 1,65,837 (↓ 10.82% YoY)

Charts

- **Sparklines** for monthly trends (J-F-M…D) for different casualty types.
- **Bar chart** for serious casualties by road type (e.g. single carriageway, dual carriageway).
- **Pie charts / donut charts** for serious casualties by:
    - Weather condition (Fine, Rain, Snow/Fog, Others)
    - Road surface (Dry, Wet, Frost/Snow)

- **Map view** plotting accident locations using geospatial data.

➢ Visualization Components

- Bar chart highlights major contributors (e.g. 21,235 serious casualties on single carriageway roads).
- Pie charts make it easy to see proportions (e.g. 83.73% of serious casualties occurred in fine weather).
- Map shows the distribution of serious accidents across the UK.

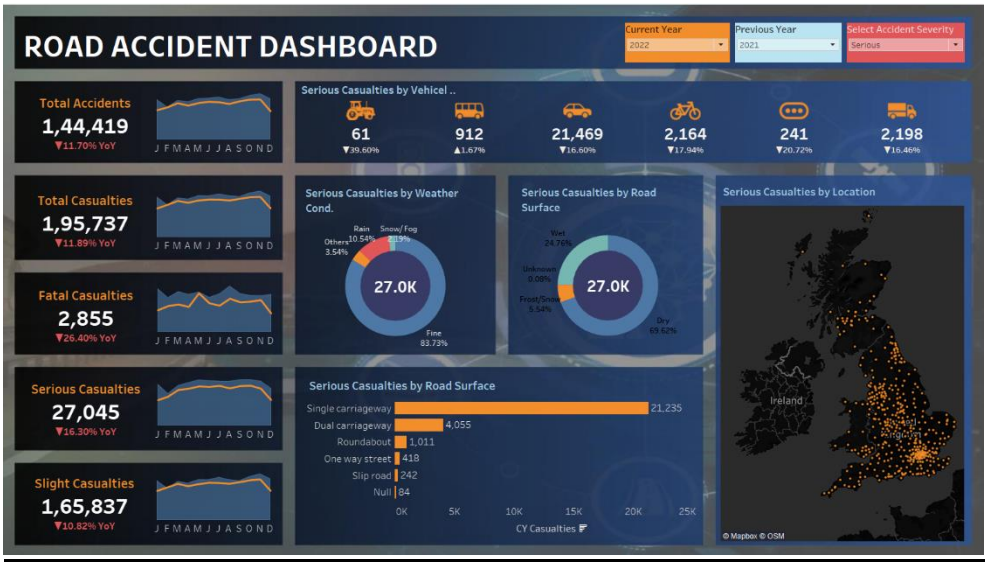
➢ Interactivity

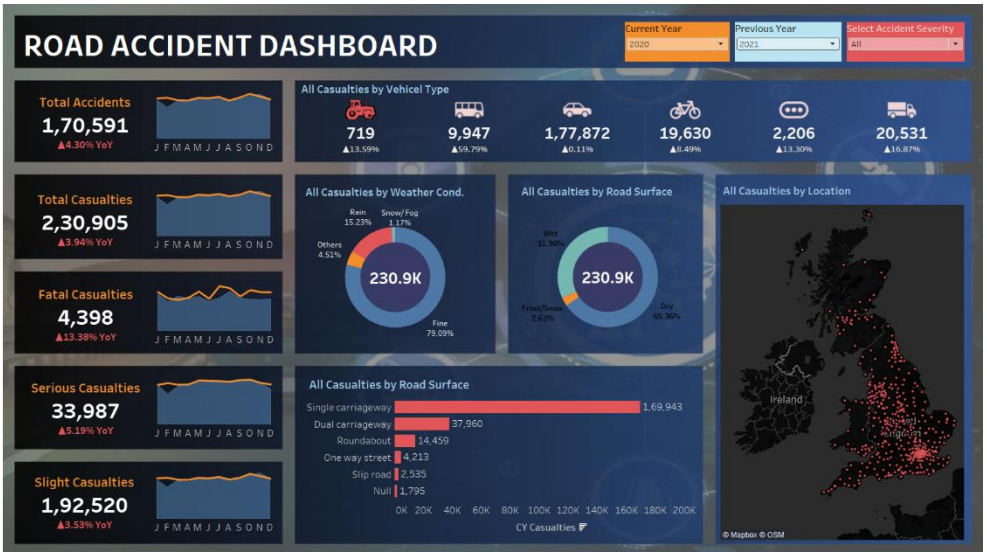
- Users can filter accident data based on year and severity level.
- All visuals update dynamically as filters are applied.

➢ Insights from the Dashboard

- There's a **year-on-year decrease** in accidents and casualties.
- **Single carriageway roads** contribute most to serious casualties.
- Most serious accidents happen in **fine weather** and on **dry roads**, suggesting human factors are more critical than just environmental conditions.
- Geographical clusters of accidents are visible in high-density regions (e.g. London, Midlands).

➢ Interactive Dashboard:

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Total Casualties
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Fatal Casualties
4,398
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Serious Casualties
33,987
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1,92,520
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19,630
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20,531
▲16.87%
All Casualties by Weather Cond.
Rain 15.23%
Snow/Fog 1.17%
Others 4.51%
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Fine 79.09%
All Casualties by Road Surface
Wet 11.90%
230.9K
Frost/Snow 2.63%
Dry 65.36%
All Casualties by Location
Ireland
England
© Mapbox © OSM
All Casualties by Road Surface
Single carriageway 1,69,943
Dual carriageway 37,960
Roundabout 14,459
One way street 4,213
Slip road 2,535
Null 1,795
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Dry 65.32%
Slight Casualties by Location
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© Mapbox © OSM
Slight Casualties by Road Surface
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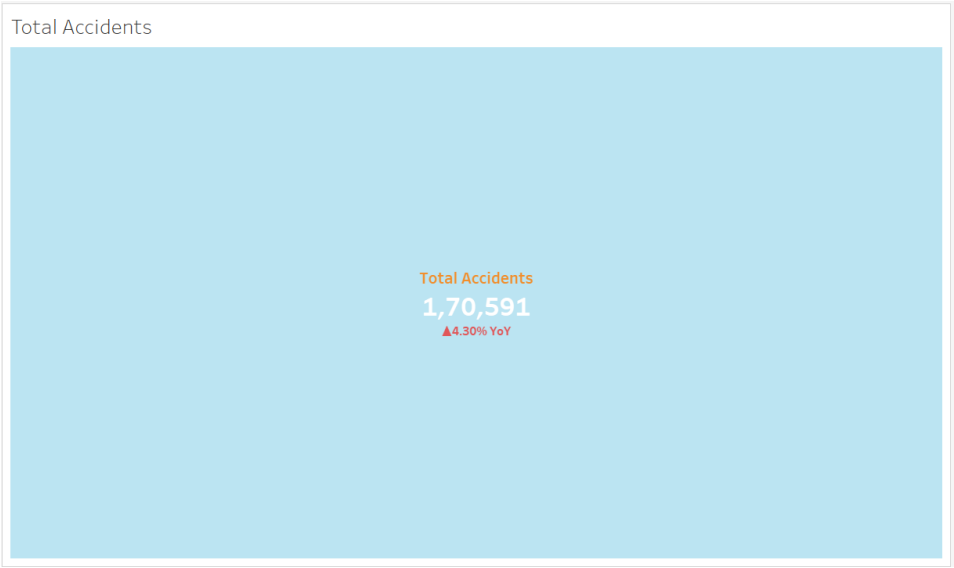
➢ Charts: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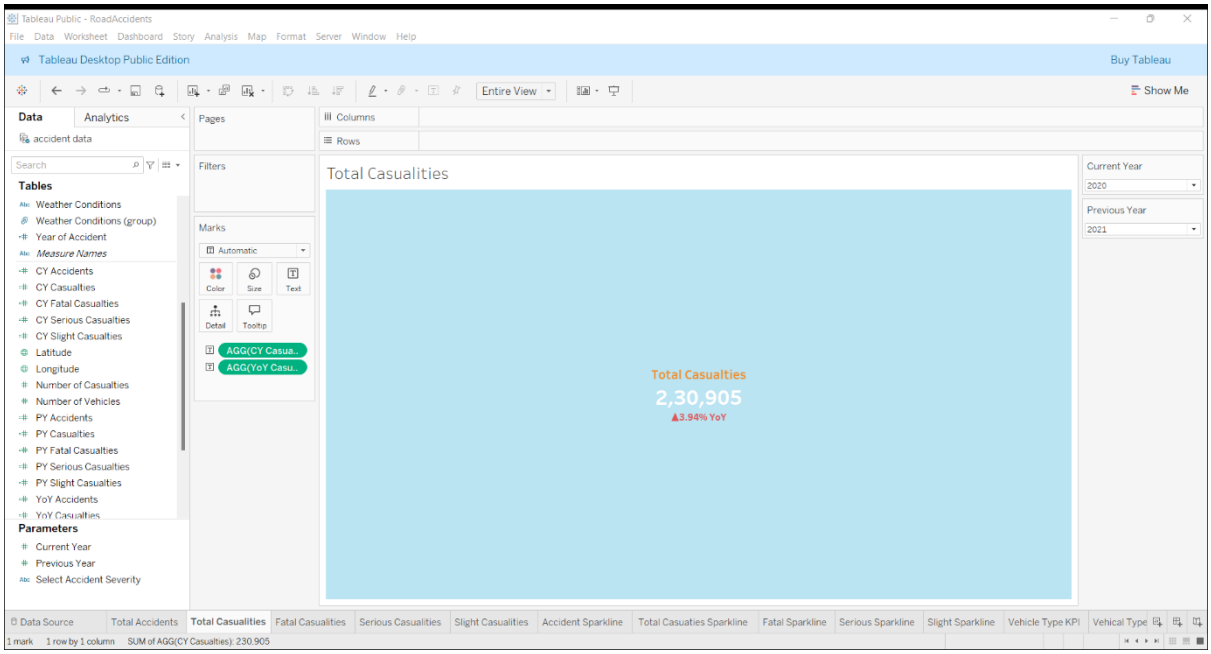
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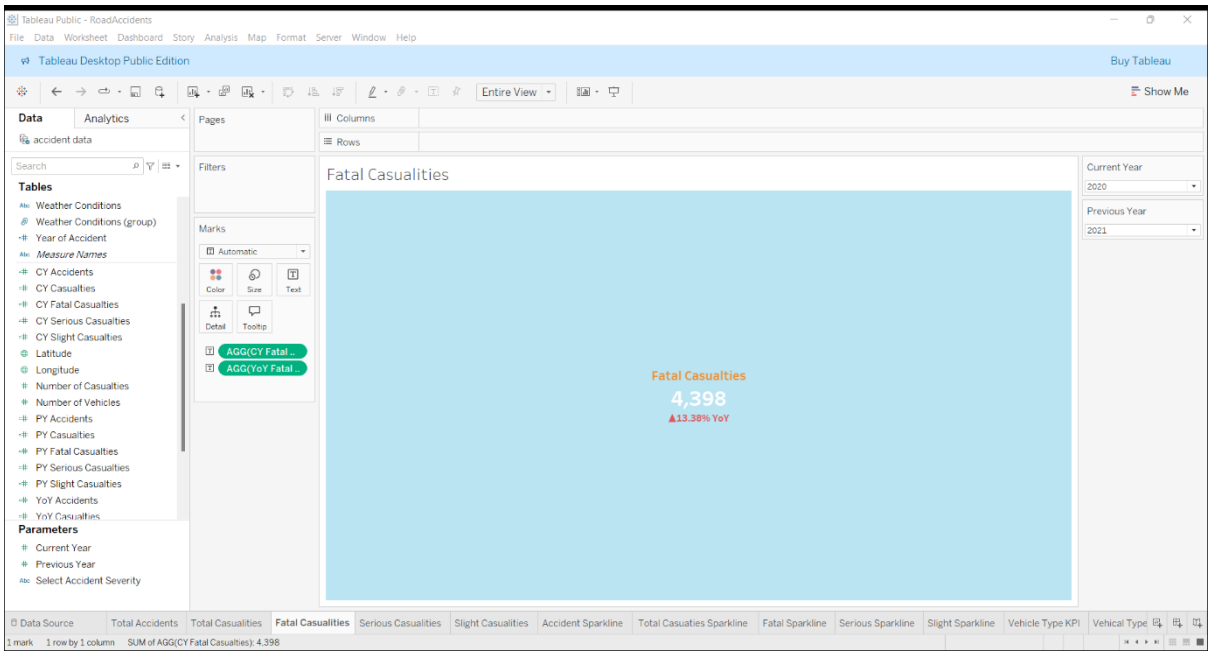
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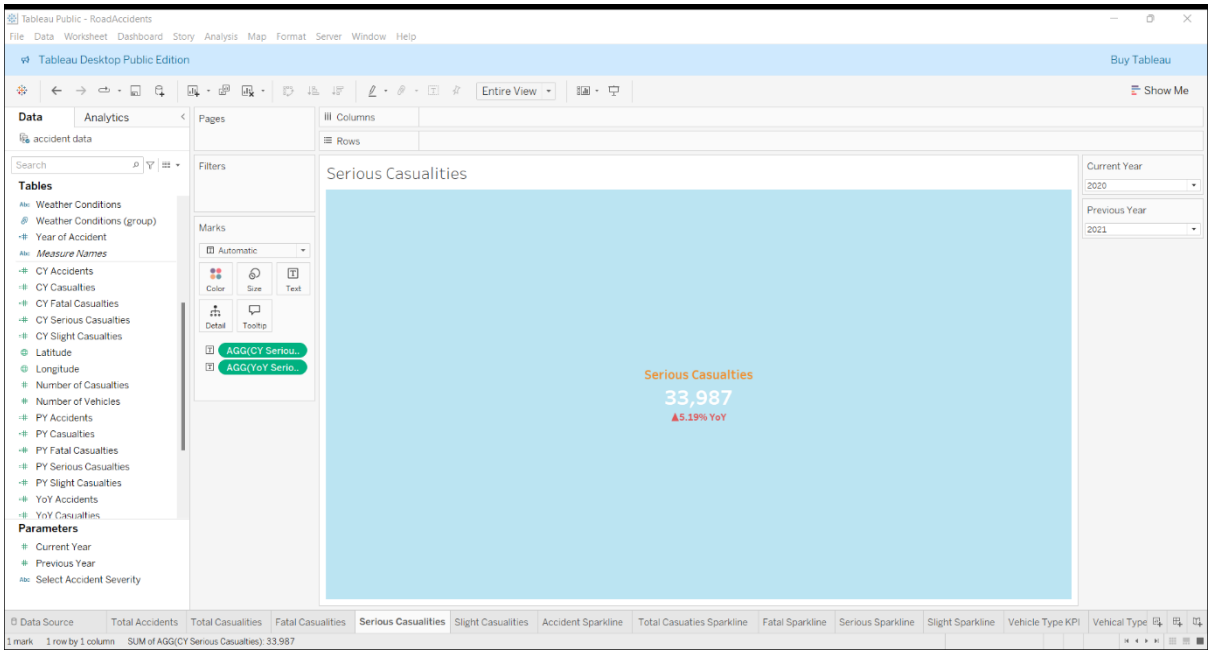
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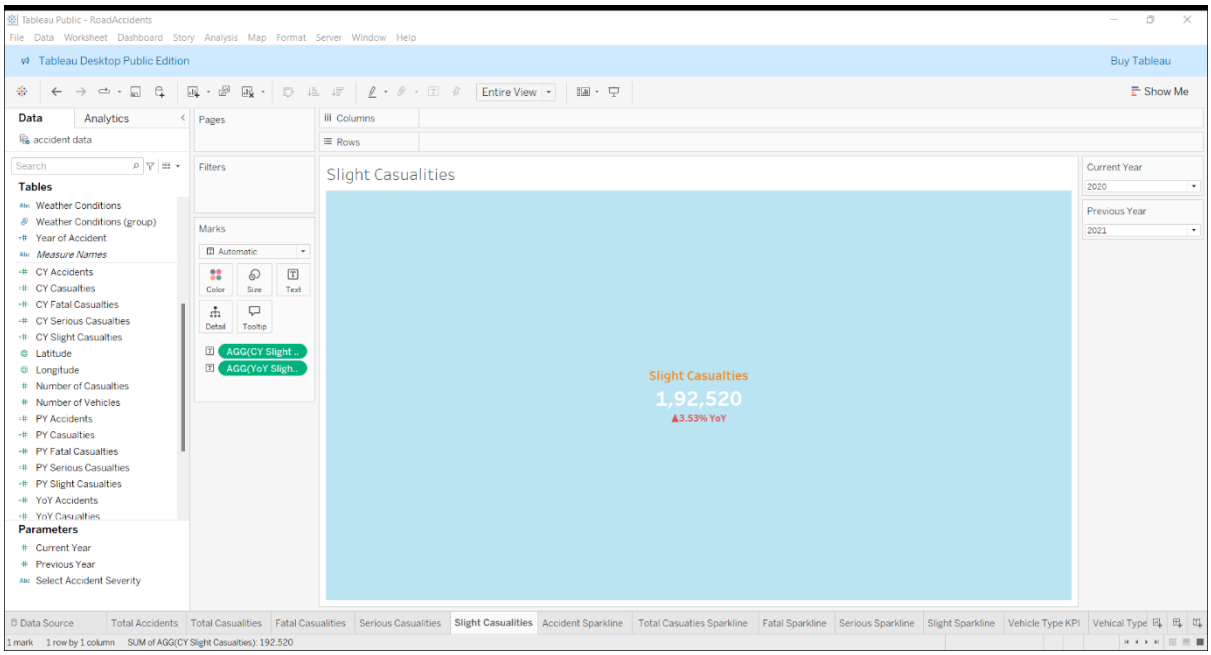
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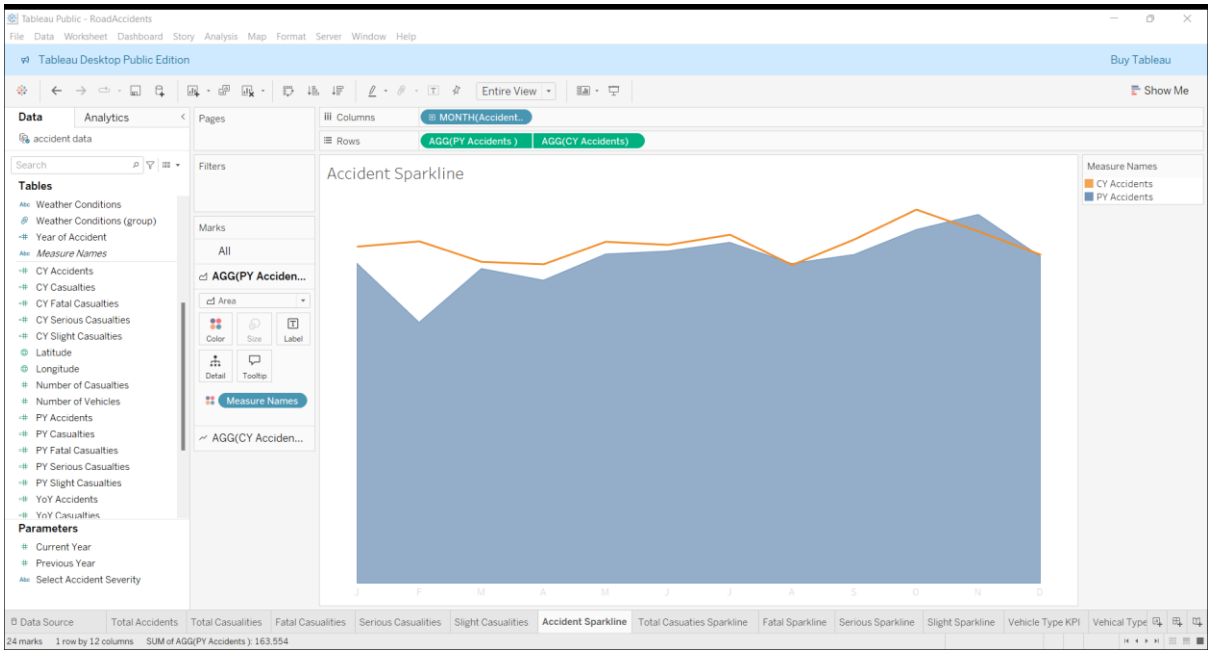
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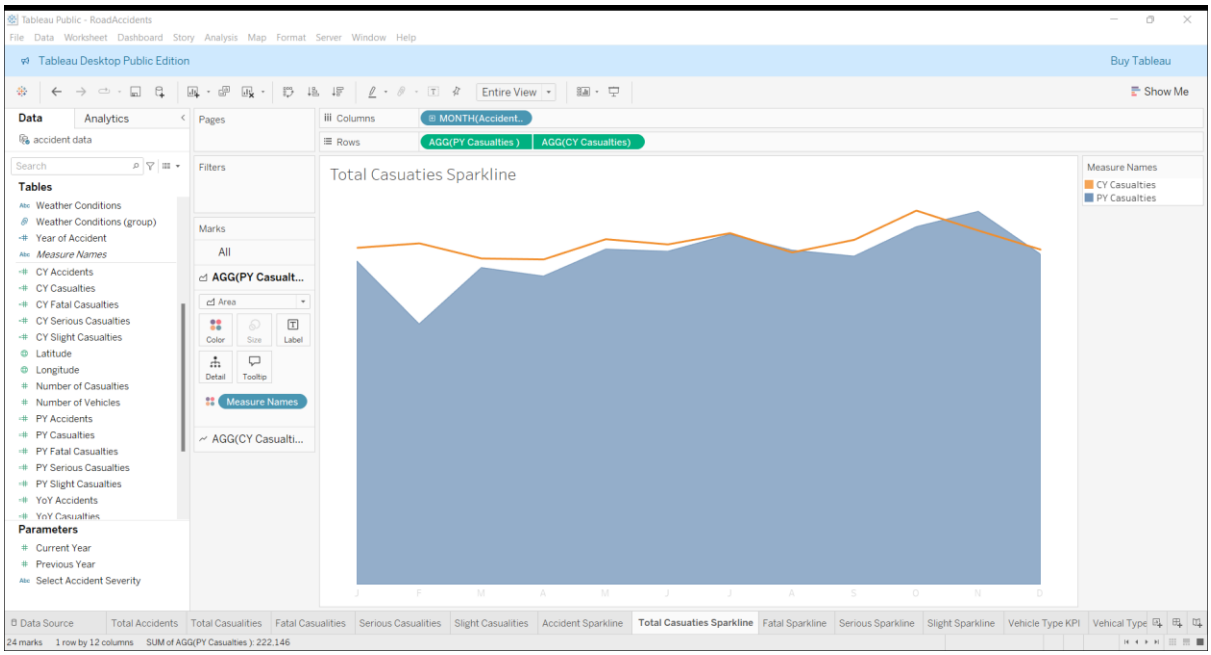
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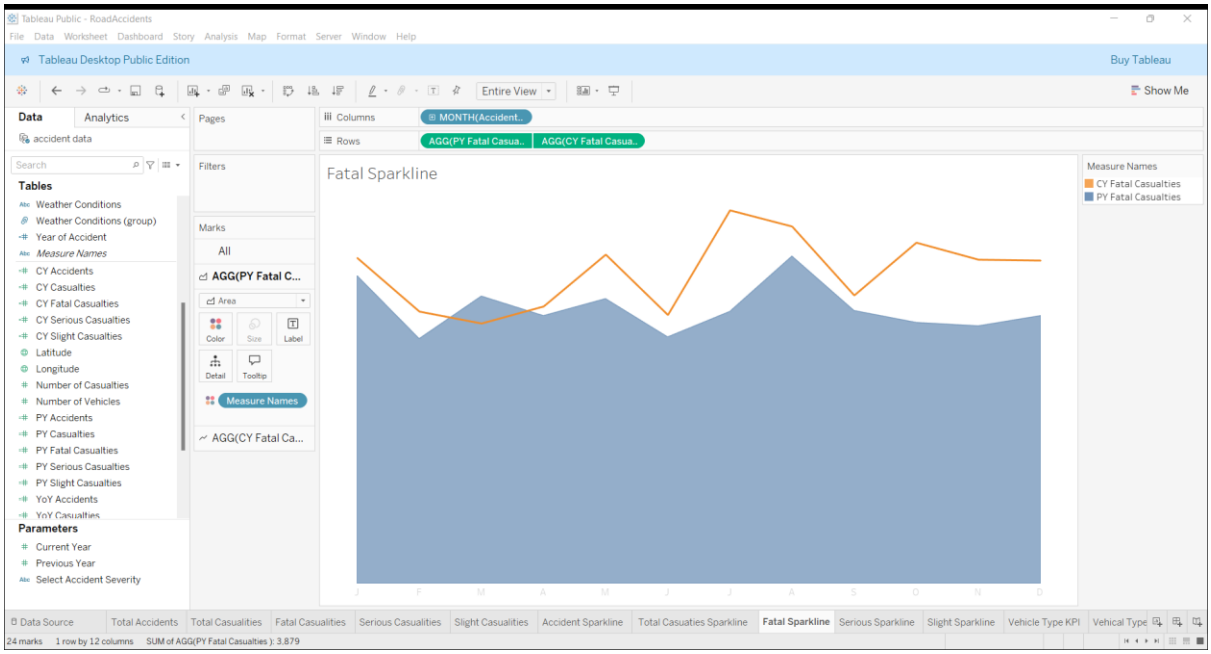
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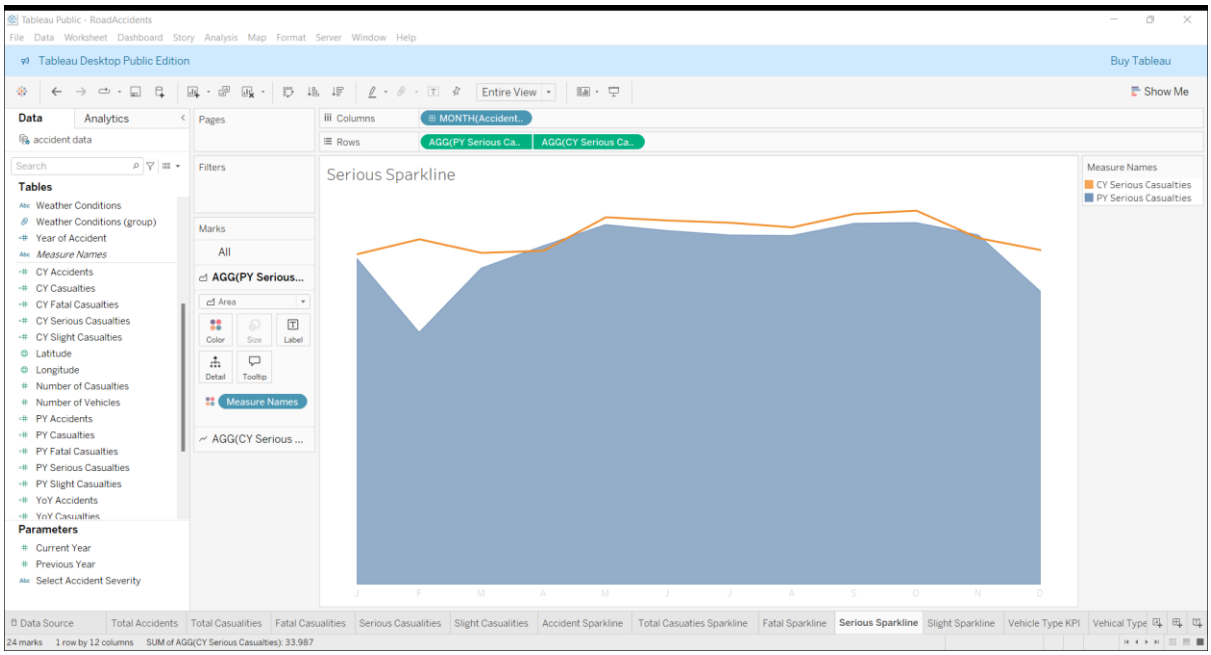
SUM of AGG(PY Fatal Casualties): 3.879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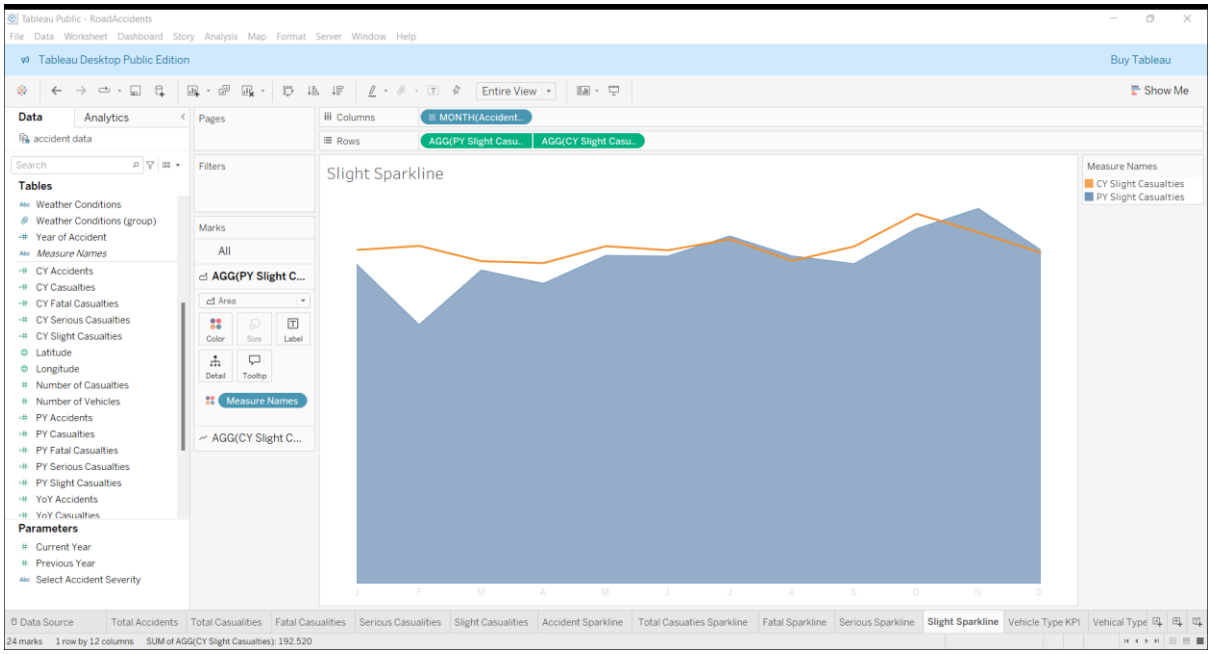
SUM of AGG(CY Serious Casualties): 33.987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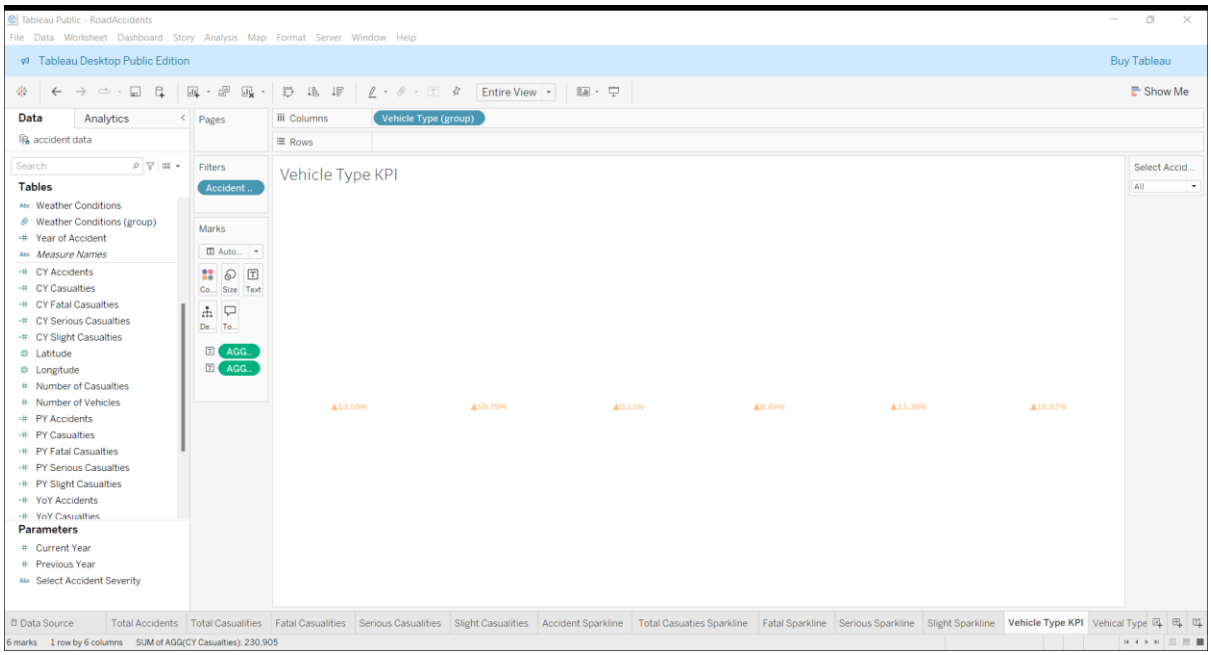
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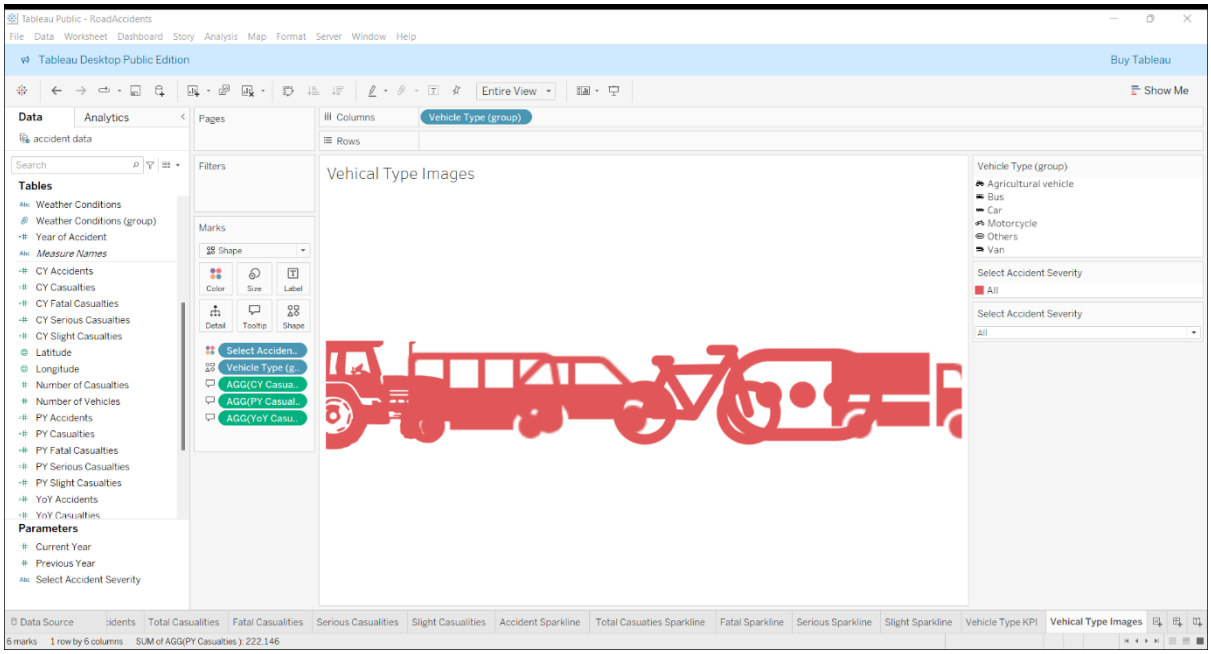
SUM of AGG(CY Casualties): 230,905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Total Casuaties Sparkline
Fatal Sparkline
Serious Sparkline
Slight Sparkline
Vehicle Type KPI
Vehical Type Images
6 marks
1 row by 6 columns
SUM of AGG(PY Casualties): 222,146

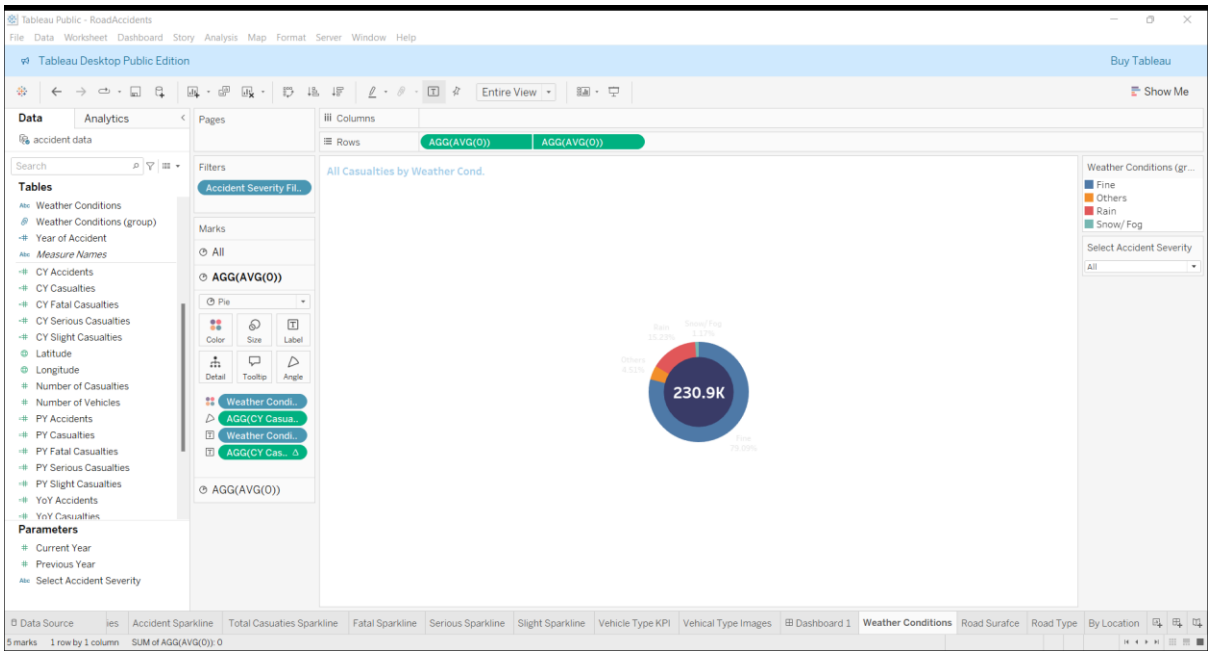
Tableau Public - RoadAccidents
Tableau Desktop Public Edition
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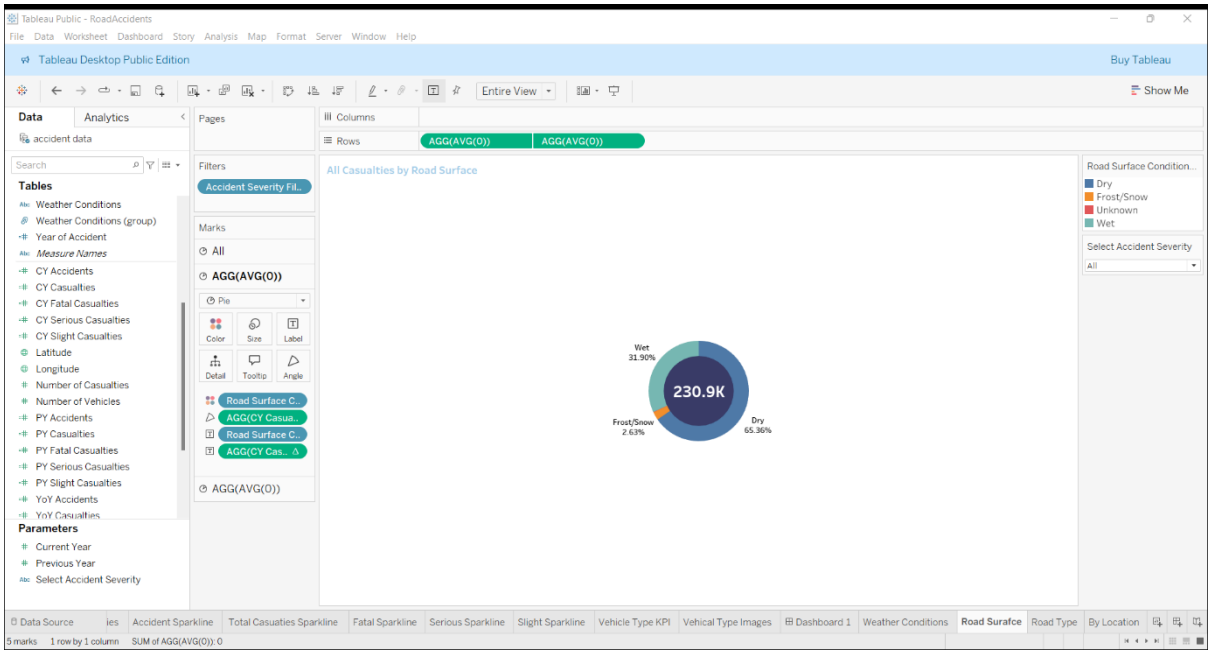
Show Me
Data
Analytics
accident data
Tables
Weather Conditions
Weather Conditions (group)
Year of Accident
Measure Names
CY Accidents
CY Casualties
CY Fatal Casualties
CY Serious Casualties
CY Slight Casualties
Latitude
Longitude
Number of Casualties
Number of Vehicles
PY Accidents
PY Casualties
PY Fatal Casualties
PY Serious Casualties
PY Slight Casualties
YoY Accidents
YoY Casualties
Parameters
Current Year
Previous Year
Select Accident Severity
Pages
Filters
Accident Severity Fil..
Marks
All
AGG(AVG(0))
Pie
Color
Size
Label
Detail
Tooltip
Angle
Weather Condi..
AGG(CY Casua..
Weather Condi..
AGG(CY Cas..
AGG(AVG(0))
Columns
Rows
AGG(AVG(0))
AGG(AVG(0))
All Casualties by Weather Cond.
230.9K
Weather Conditions (gr..
Fine
Others
Rain
Snow/ Fog
Select Accident Severity
All
Data Source
Accident Sparkline
Total Casuaties Sparkline
Fatal Sparkline
Serious Sparkline
Slight Sparkline
Vehicle Type KPI
Vehical Type Images
Dashboard 1
Weather Conditions
Road Surafce
Road Type
By Location
5 marks
1 row by 1 column
SUM of AGG(AVG(0)): 0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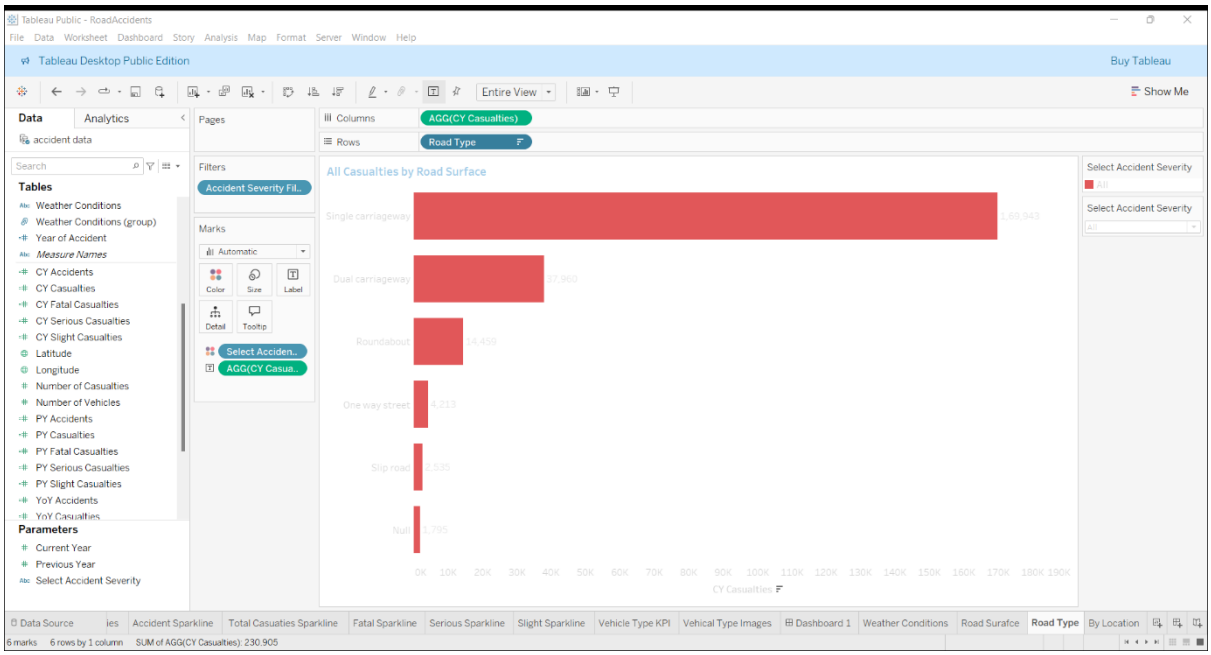
Data
Analytics
accident data
Tables
Weather Conditions
Weather Conditions (group)
Year of Accident
Measure Names
CY Accidents
CY Casualties
CY Fatal Casualties
CY Serious Casualties
CY Slight Casualties
Latitude
Longitude
Number of Casualties
Number of Vehicles
PY Accidents
PY Casualties
PY Fatal Casualties
PY Serious Casualties
PY Slight Casualties
YoY Accidents
YoY Casualties
Parameters
Current Year
Previous Year
Select Accident Severity
Pages
Columns
Rows
AGG(AVG(0))
AGG(AVG(0))
Filters
Accident Severity Fil..
Marks
All
AGG(AVG(0))
Pie
Color
Size
Label
Detail
Tooltip
Angle
Road Surface C..
AGG(CY Casua..
Road Surface C..
AGG(CY Cas..
All Casualties by Road Surface
Wet
31.90%
230.9K
Frost/Snow
2.63%
Dry
65.36%
Road Surface Condition..
Dry
Frost/Snow
Unknown
Wet
Select Accident Severity
All
Data Source
Accident Sparkline
Total Casualties Sparkline
Fatal Sparkline
Serious Sparkline
Slight Sparkline
Vehicle Type KPI
Vehicle Type Images
Dashboard 1
Weather Conditions
Road Surafce
Road Type
By Location
5 marks
1 row by 1 column
SUM of AGG(AVG(0)): 0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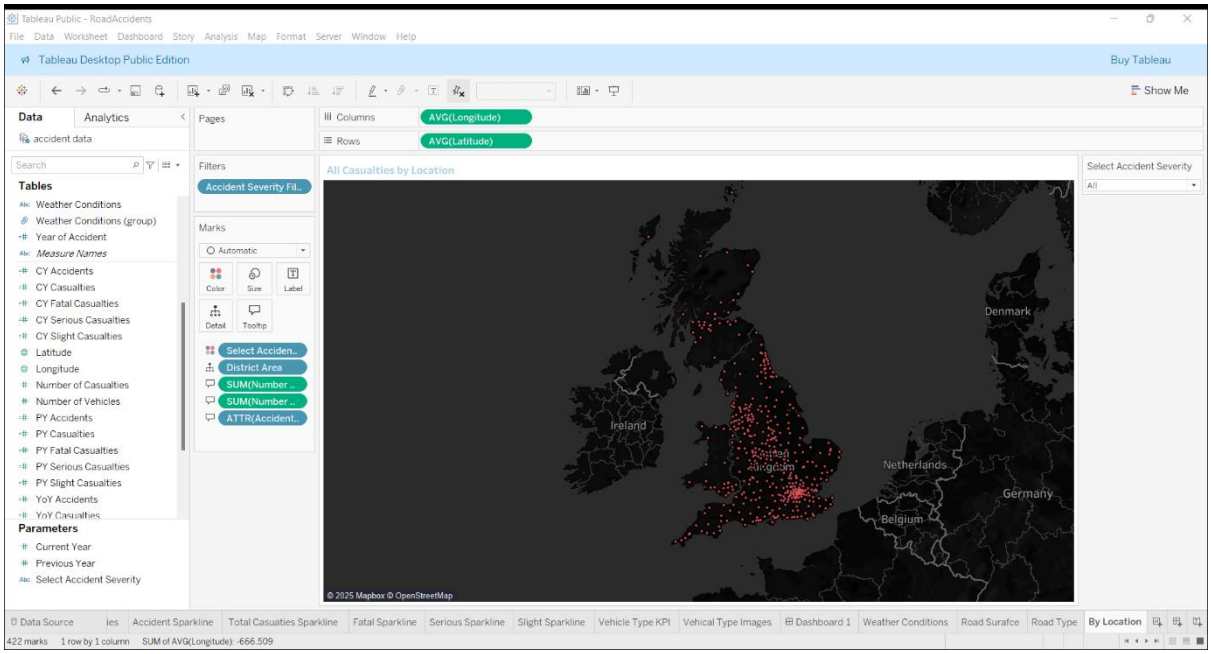
Show Me
Data
Analytics
accident data
Tables
Weather Conditions
Weather Conditions (group)
Year of Accident
Measure Names
CY Accidents
CY Casualties
CY Fatal Casualties
CY Serious Casualties
CY Slight Casualties
Latitude
Longitude
Number of Casualties
Number of Vehicles
PY Accidents
PY Casualties
PY Fatal Casualties
PY Serious Casualties
PY Slight Casualties
YoY Accidents
YoY Casualties
Parameters
Current Year
Previous Year
Select Accident Severity
Pages
Columns
AGG(CY Casualties)
Rows
Road Type
Filters
Accident Severity Fil..
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Select Acciden..
AGG(CY Casua..
All Casualties by Road Surface
Single carriageway
Dual carriageway
Roundabout
One way street
Slip road
Null
0K
10K
20K
30K
40K
50K
60K
70K
80K
90K
100K
110K
120K
130K
140K
150K
160K
170K
180K
190K
CY Casualties
Select Accident Severity
All
Select Accident Severity
All
Data Source
Accident Sparkline
Total Casualties Sparkline
Fatal Sparkline
Serious Sparkline
Slight Sparkline
Vehicle Type KPI
Vehicle Type Images
Dashboard 1
Weather Conditions
Road Surafce
Road Type
By Location
6 marks
6 rows by 1 column
SUM of AGG(CY Casualties): 230,905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File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
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Show Me
Data
Analytics
accident data
Search
Tables
Weather Conditions
Weather Conditions (group)
Year of Accident
Measure Names
CY Accidents
CY Casualties
CY Fatal Casualties
CY Serious Casualties
CY Slight Casualties
Latitude
Longitude
Number of Casualties
Number of Vehicles
PY Accidents
PY Casualties
PY Fatal Casualties
PY Serious Casualties
PY Slight Casualties
YoY Accidents
YoY Casualties
Parameters
Current Year
Previous Year
Select Accident Severity
Pages
Filters
Accident Severity Fil..
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Select Acciden..
District Area
SUM(Number ..
SUM(Number ..
ATTR(Accident..
Columns
AVG(Longitude)
Rows
AVG(Latitude)
All Casualties by Location
Ireland
Netherlands
Germany
Belgium
Denmark
© 2025 Mapbox © OpenStreetMap
Select Accident Severity
All
Data Source
Accident Sparkline
Total Casualties Sparkline
Fatal Sparkline
Serious Sparkline
Slight Sparkline
Vehicle Type KPI
Vehical Type Images
Dashboard 1
Weather Conditions
Road Surafce
Road Type
By Location
422 marks
1 row by 1 column
SUM of AVG(Longitude): -666.509

****