

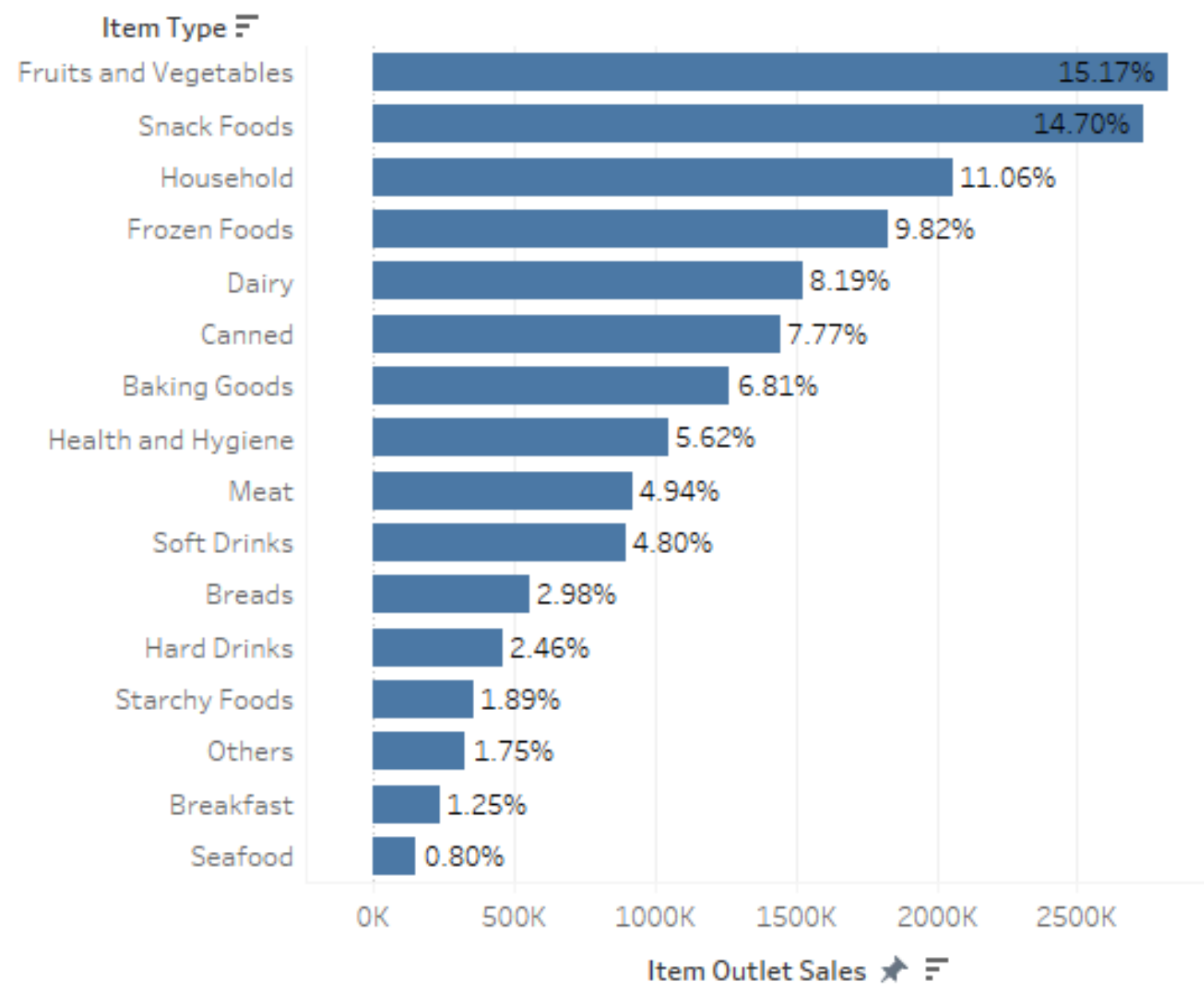
ADVANCED DATA VISUALIZATION

By Chirag Mehta
UID: 2021600044

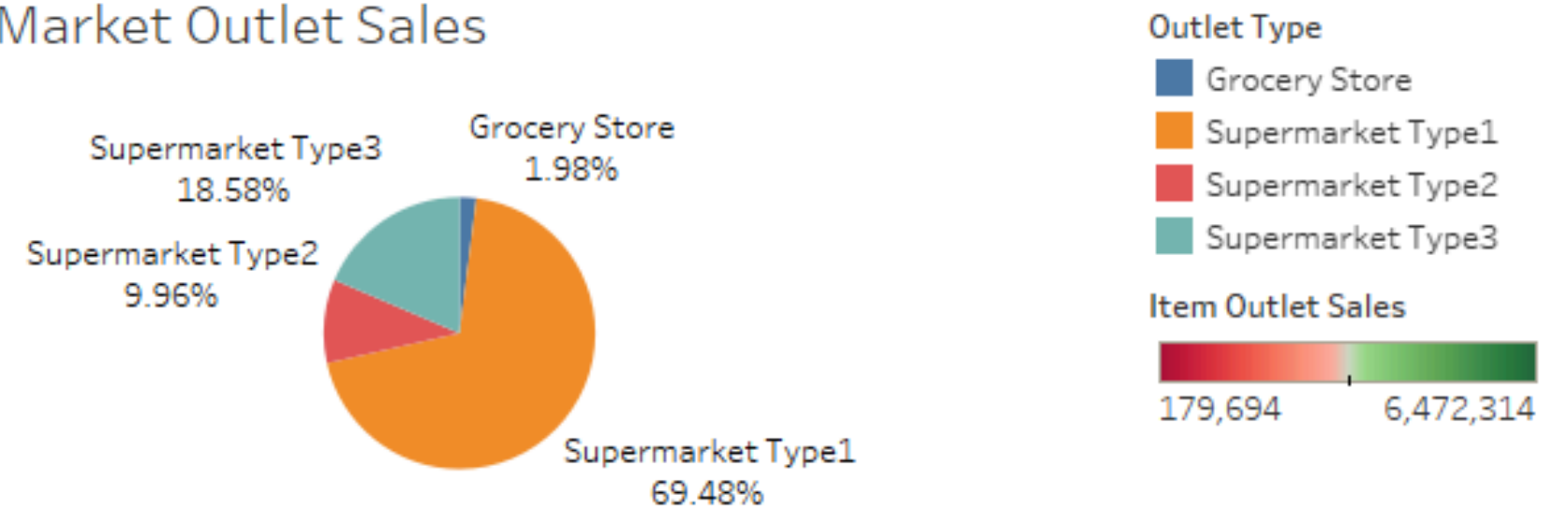
Experiment 1:

Creating basic charts using Power BI/ Python on E commerce dataset. Plot bar charts, pie charts, timeline, scatter plots for product wise and region wise sale. Write observations for each chart. Using bar chart, column chart, histogram , map chart and pie chart to plot and visualize amazon sales data by category, state , etc.

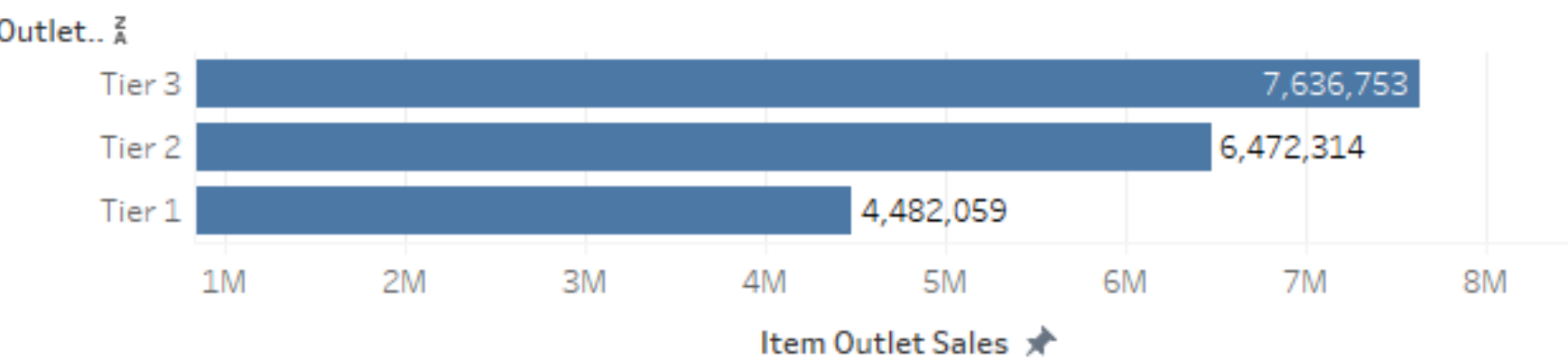
Item Outlet Sales



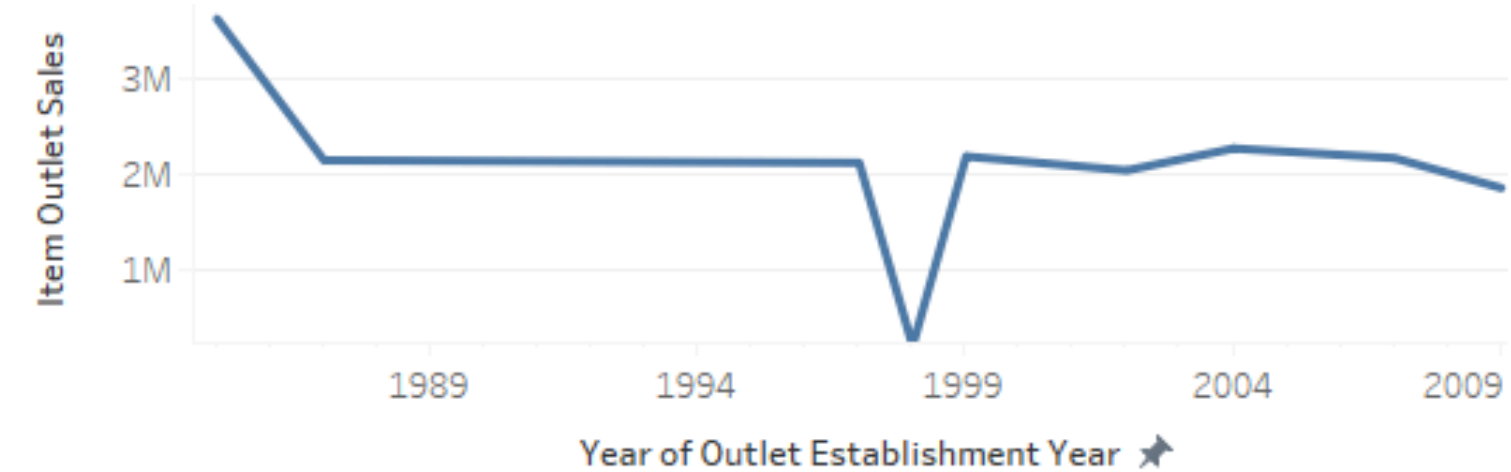
SuperMarket Outlet Sales



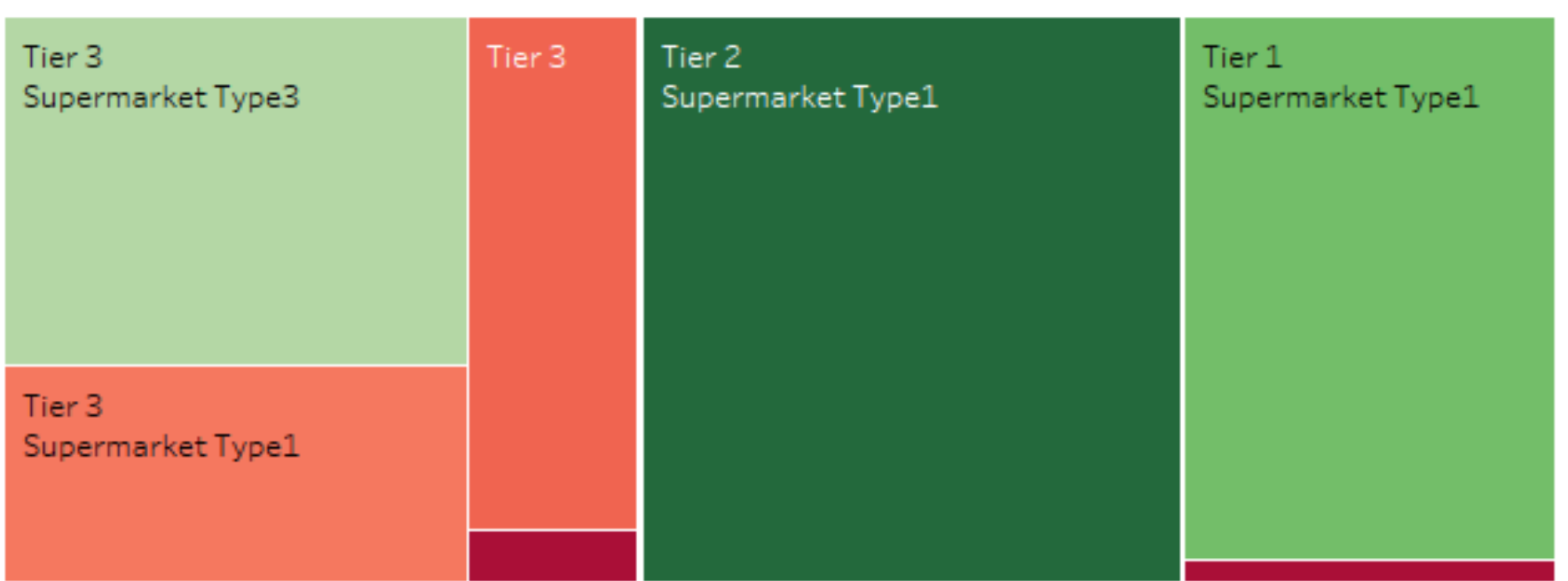
Location: Item Sales



Yearly : Total Outlet Sales



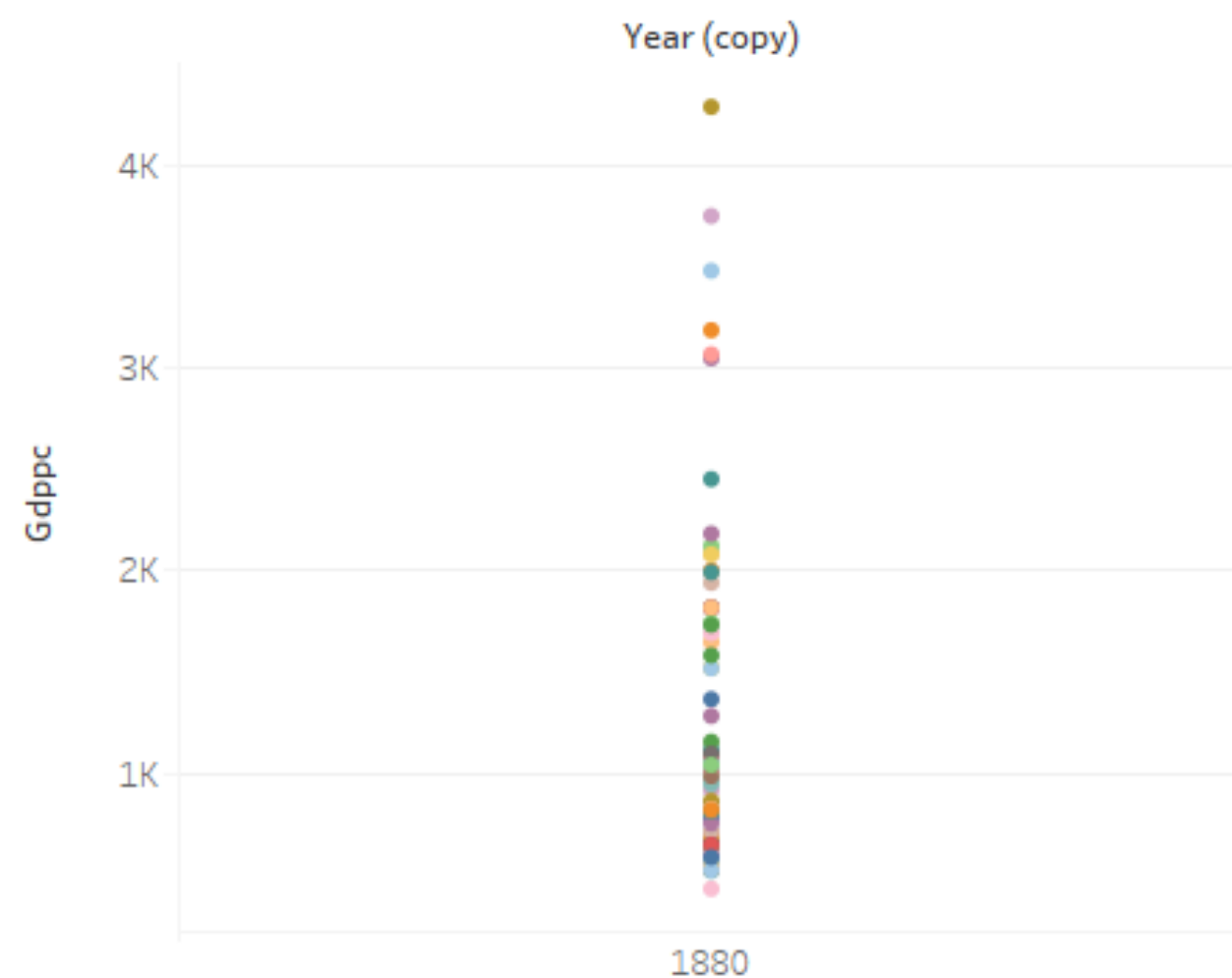
Location V/S Type and Sales



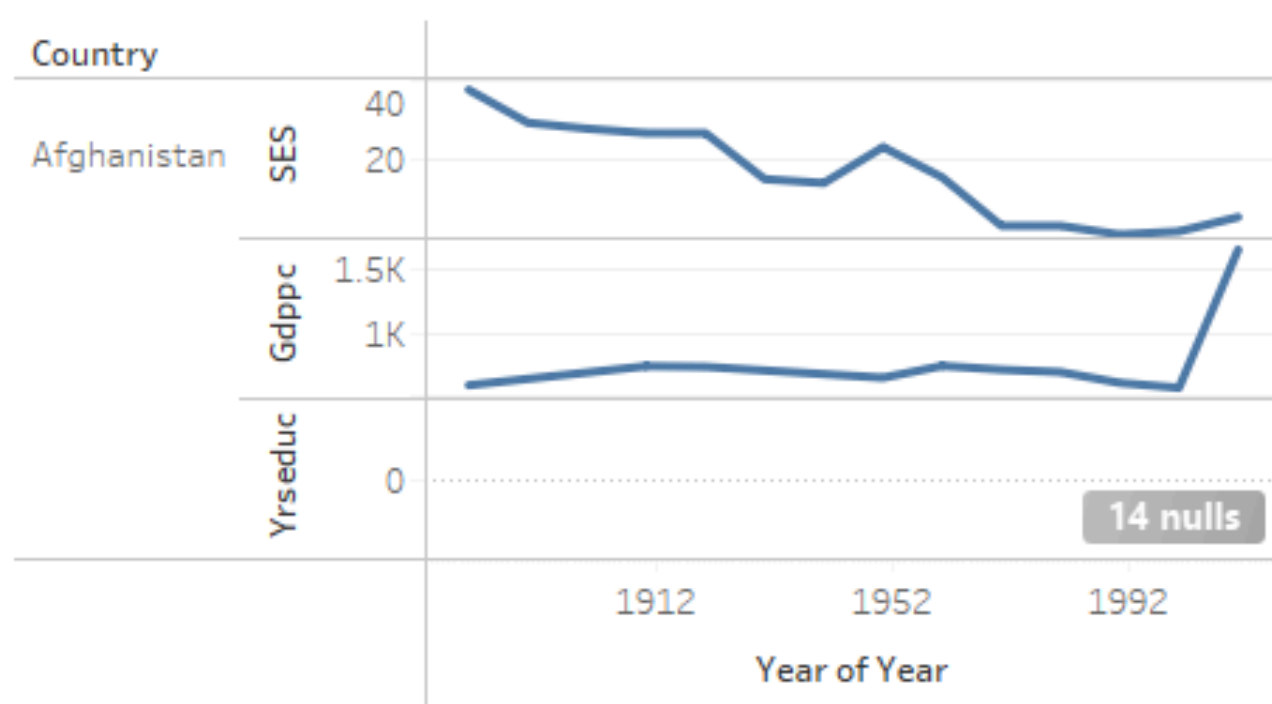
Experiment 2:

Create advanced charts using
Tableau / Power BI / R / Python
/ Plotly or Chart or D3.js to be
performed on the dataset-
Socio economic data

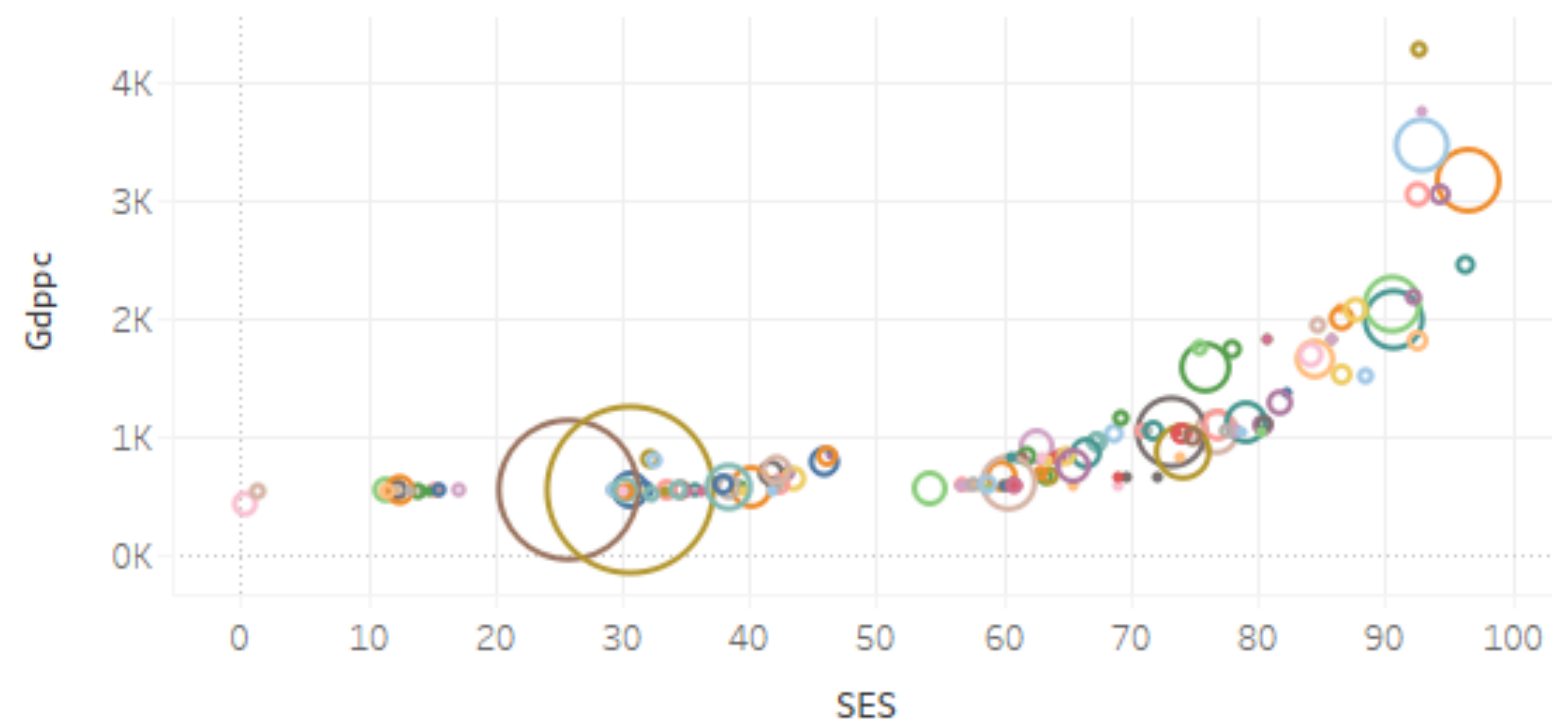
Year V/S GDP



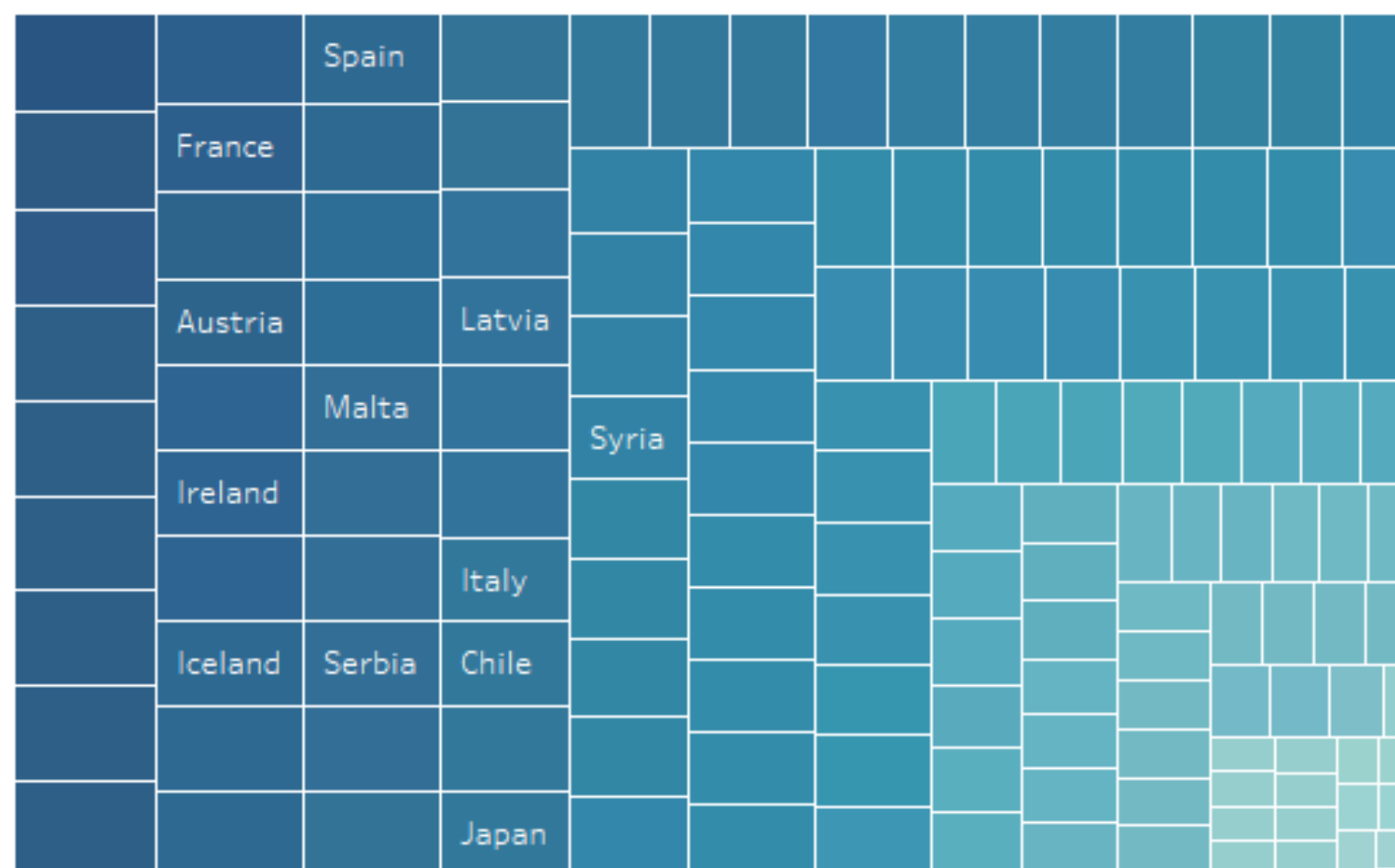
Economic Status : Afghanistan



All - 1880



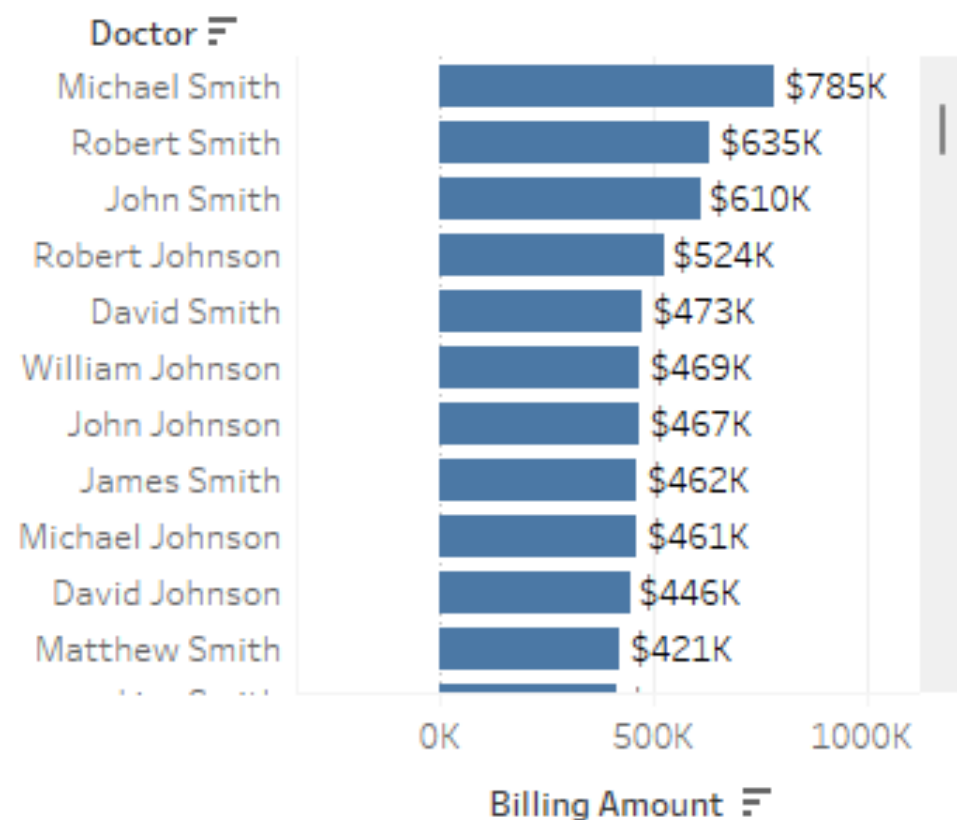
Country V/S SES



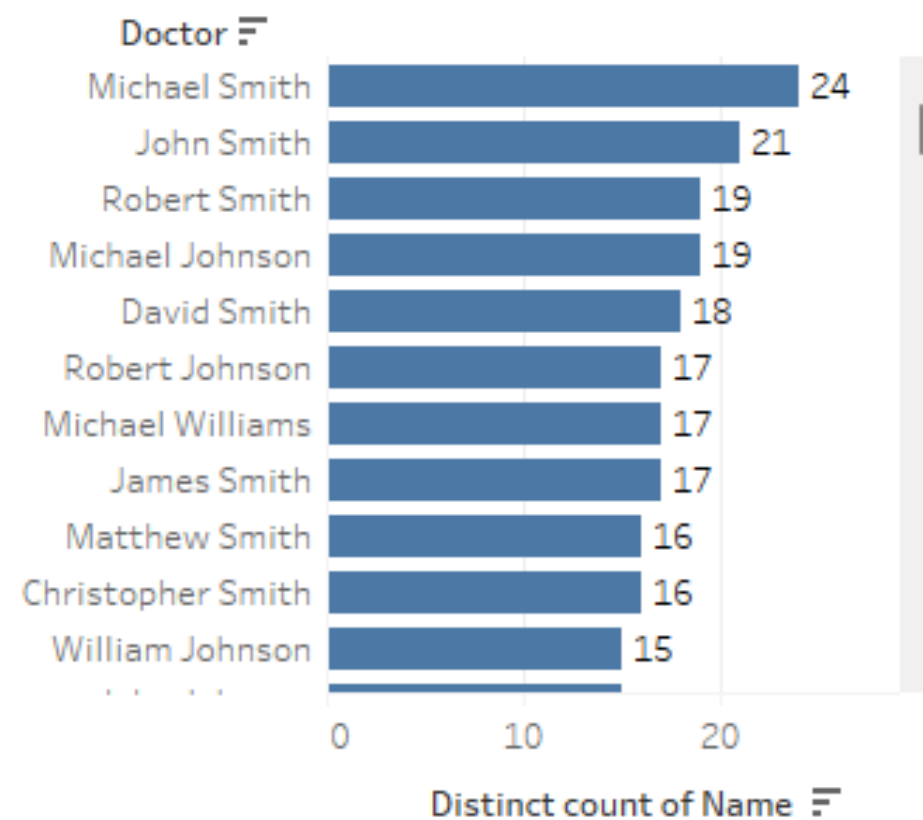
Experiment 3:

**Design Interactive Dashboard
and storytelling using Power BI
/Python**

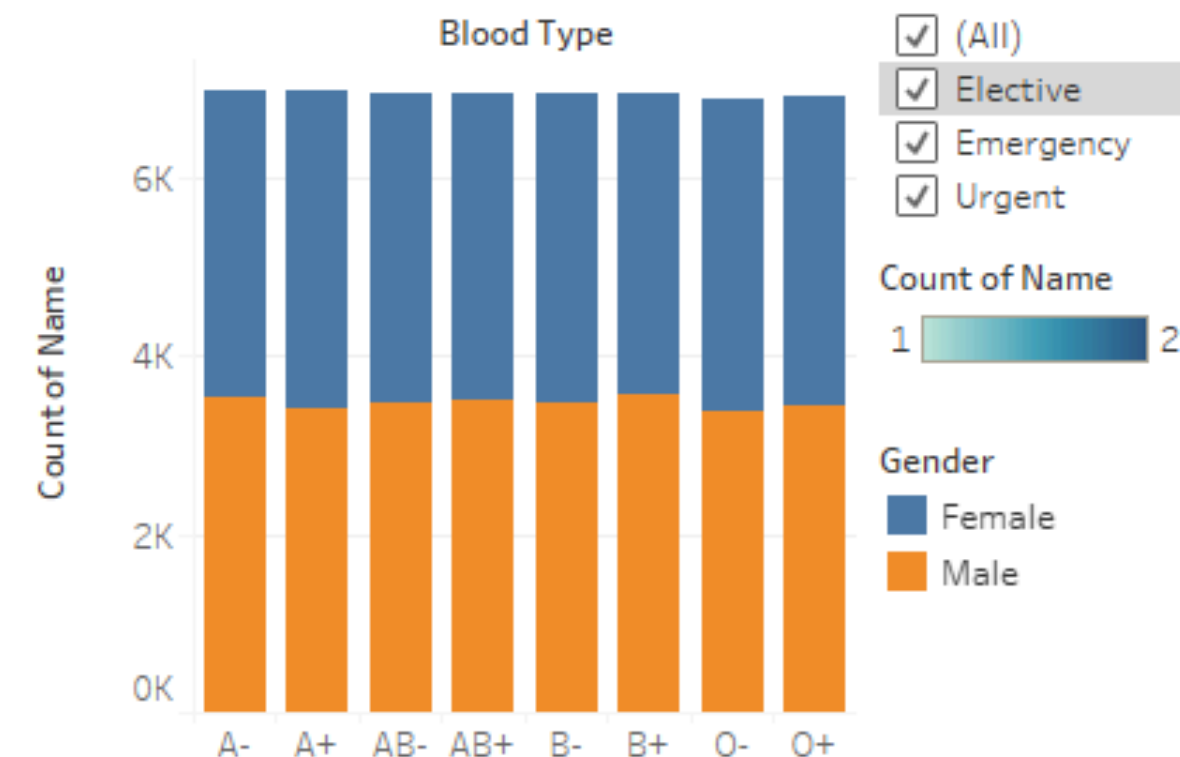
Doctor-Wise Billing Amount



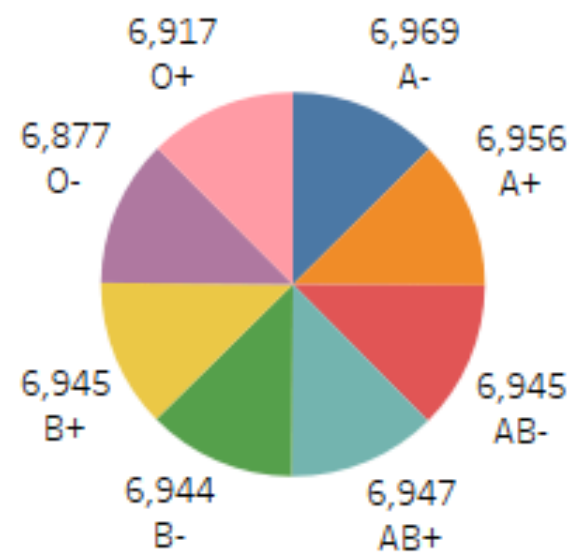
Doctor-Wise Patient Count



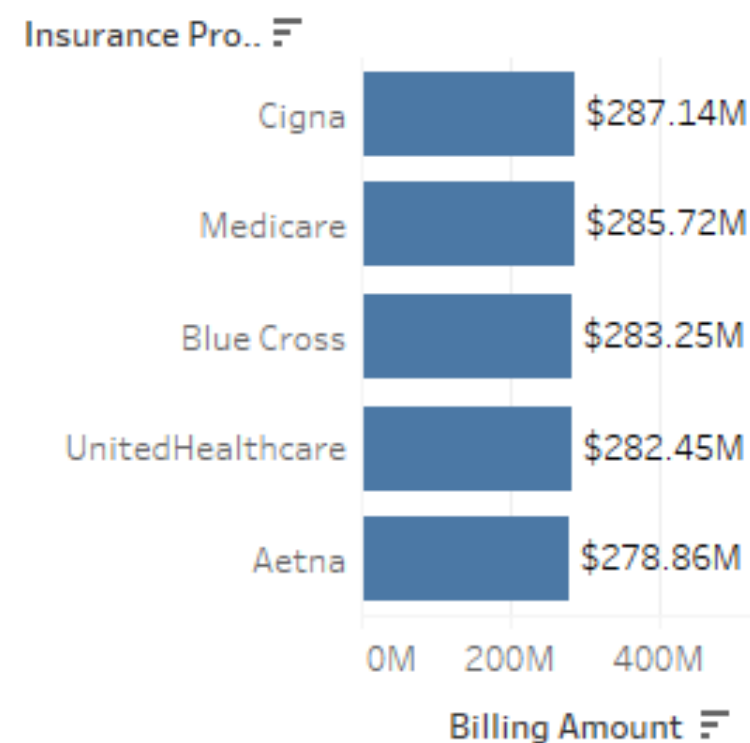
Gender distribution by blood type



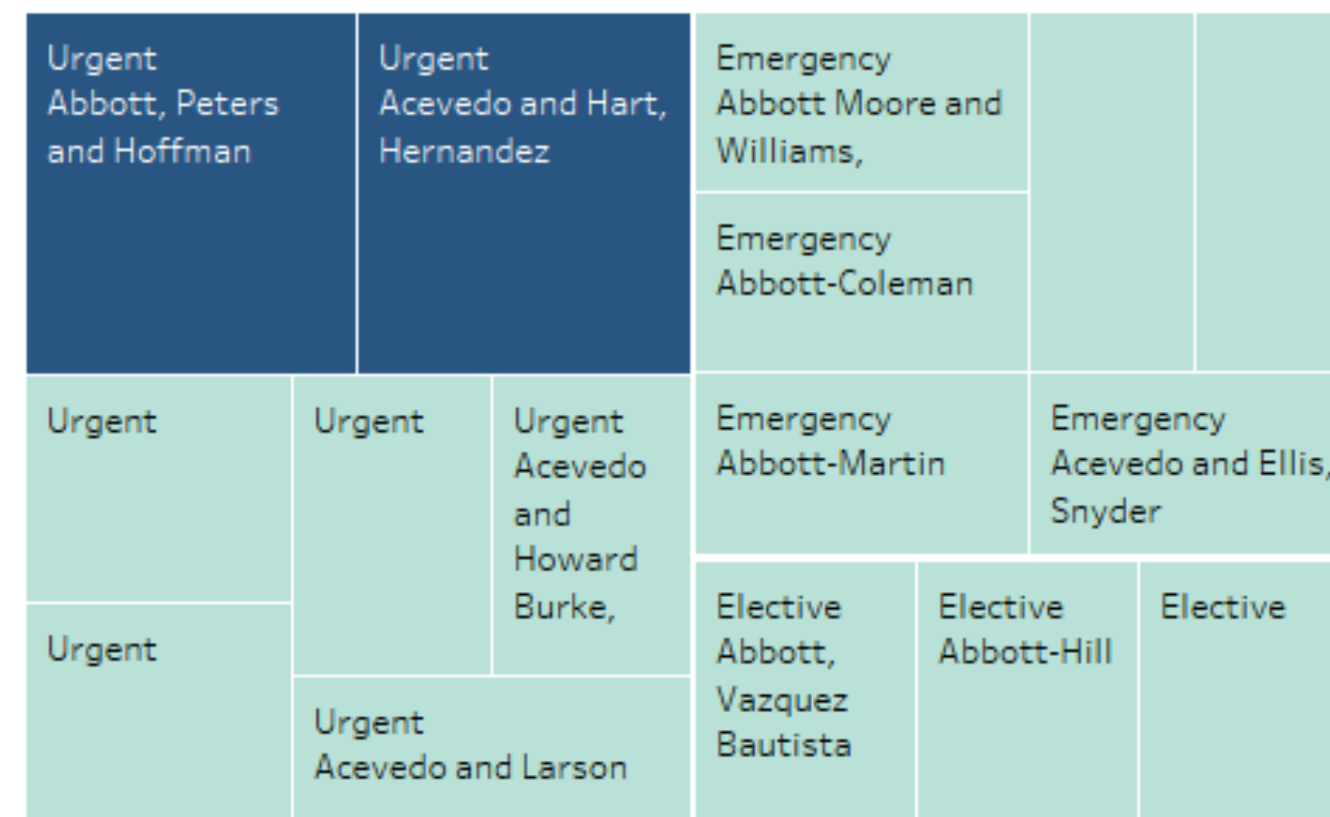
Patient Distribution by Blood Type



Insurance provider by Billing Amount



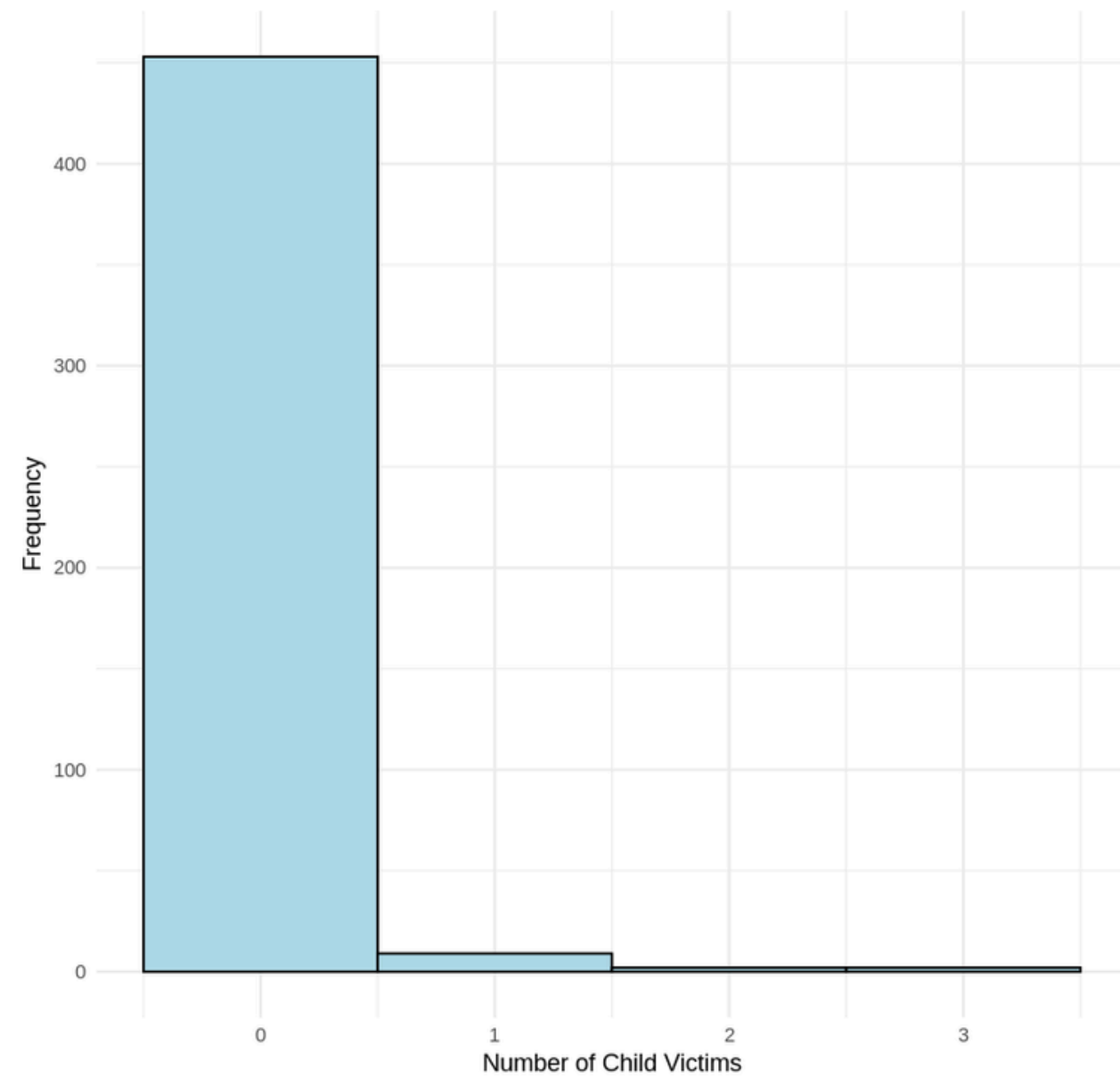
Hospital Patient Distribution by Urgency Type



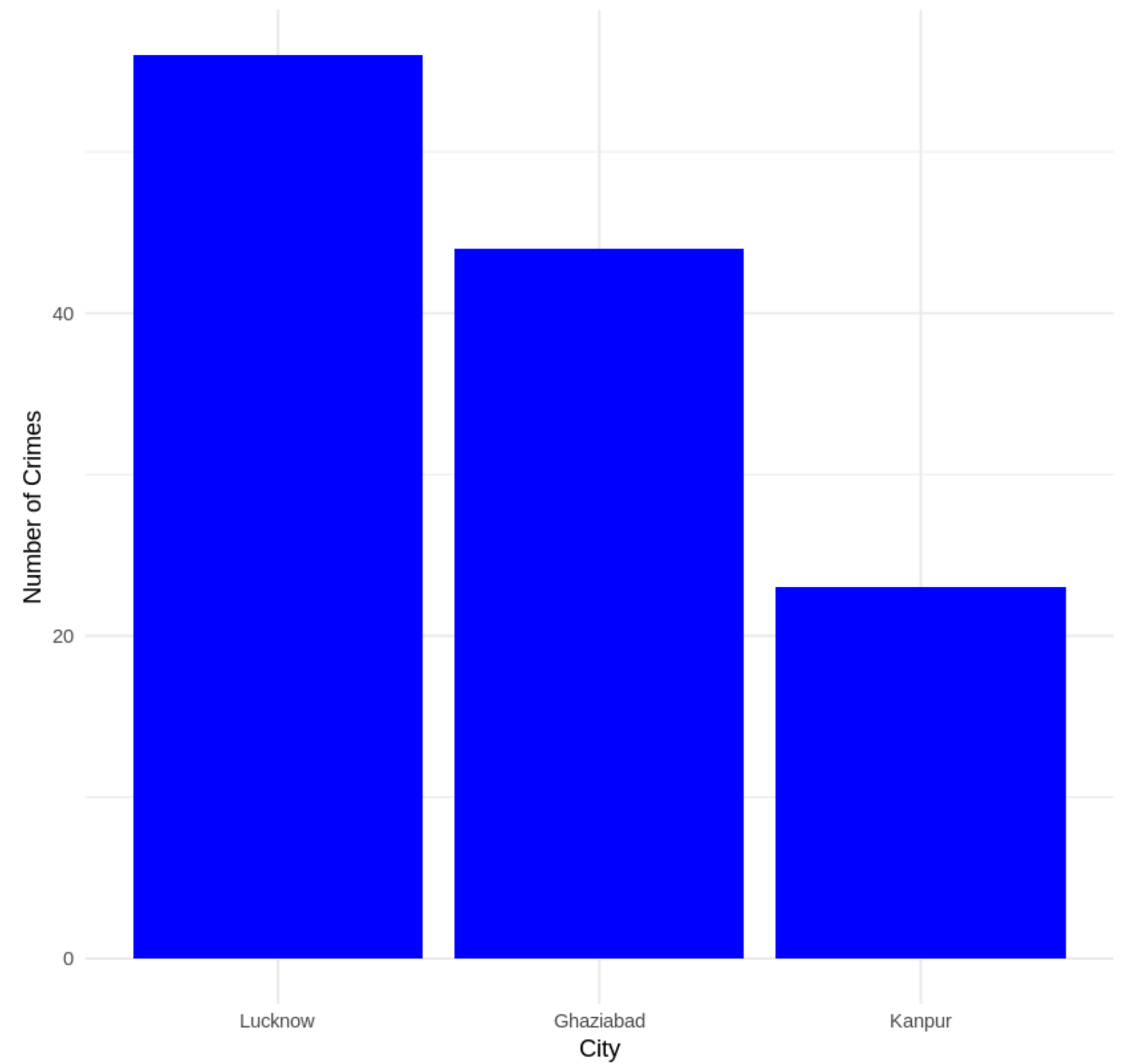
Experiment 4:

Create basic charts using R
programming language on
dataset Crime or Police / Law
and Order

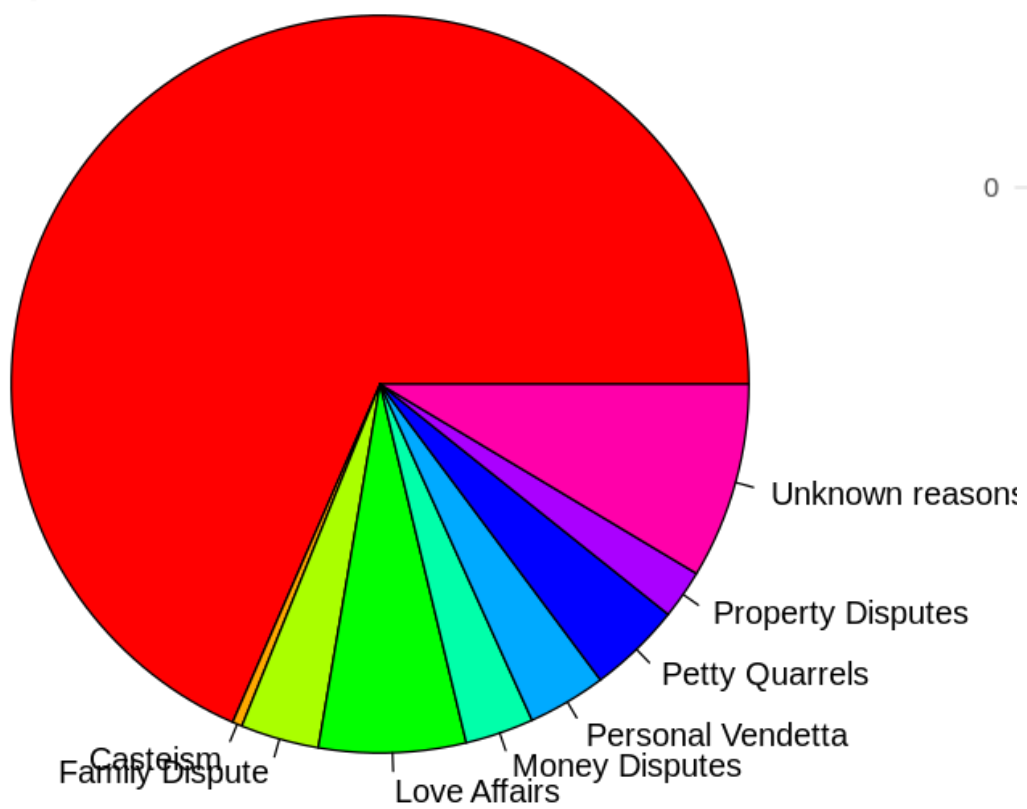
Distribution of Child Victims



Total Crimes by City



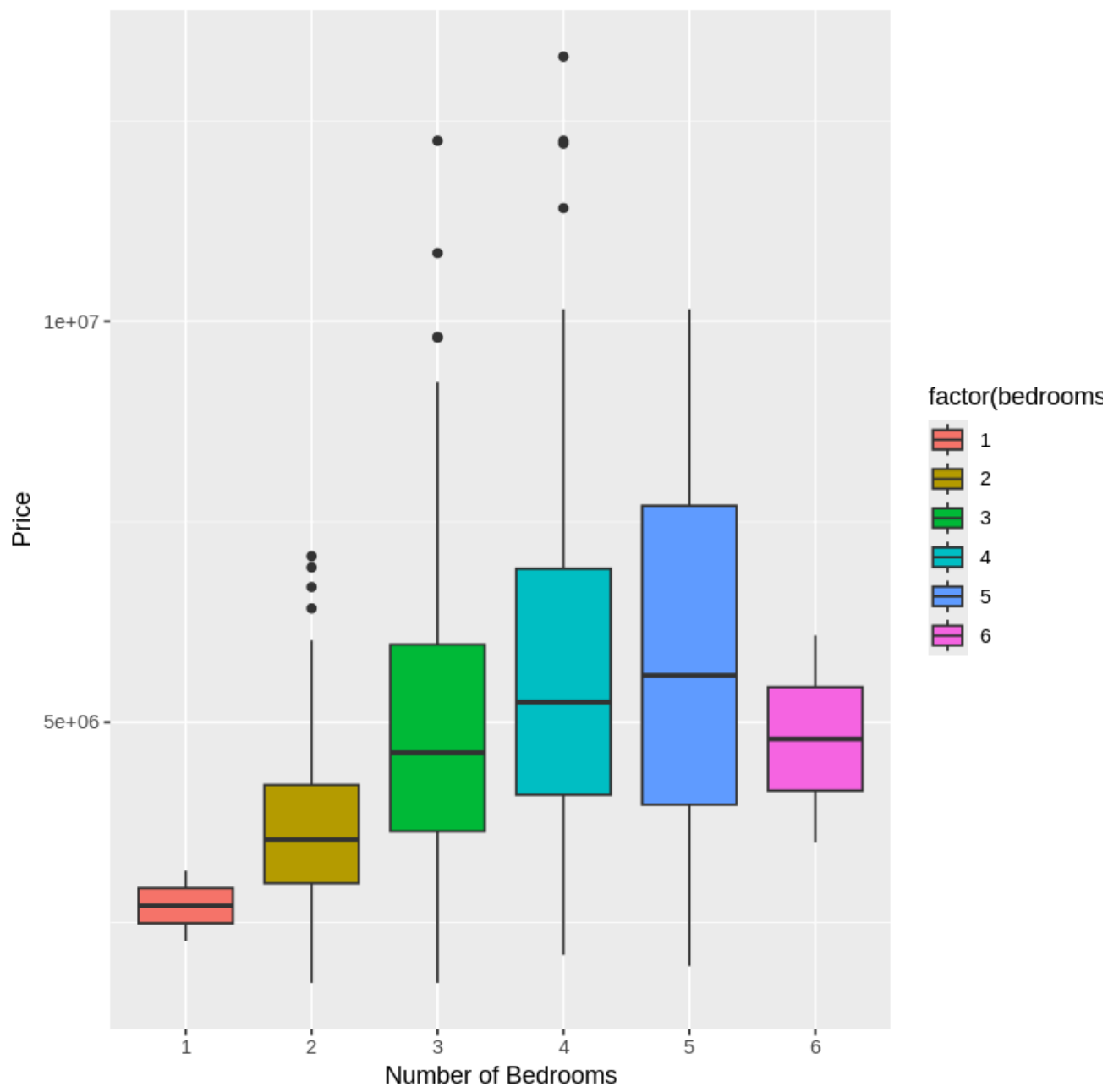
Reasons for Murders



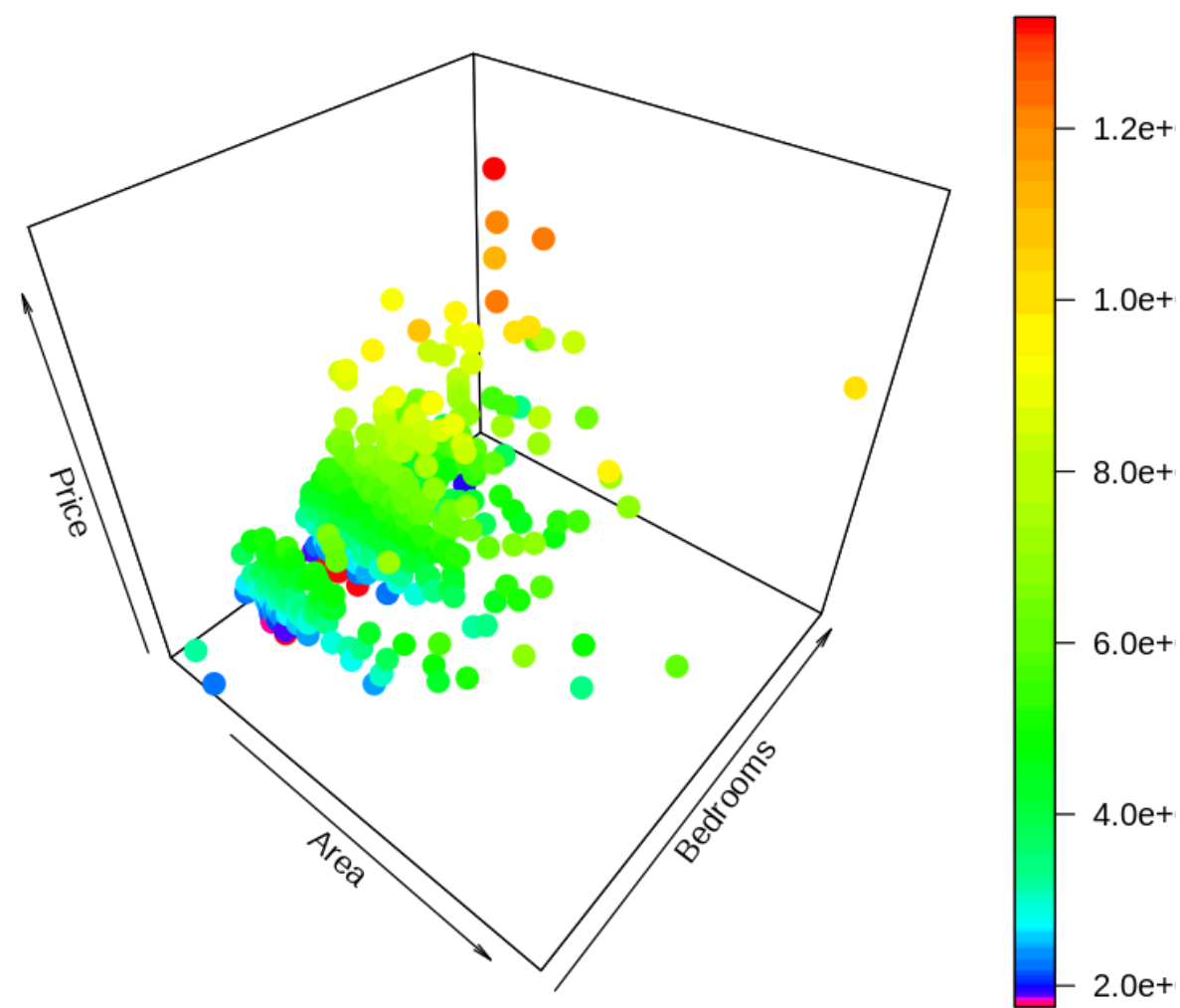
Experiment 5:

Create advanced charts using
R programming language on
the dataset- Housing data

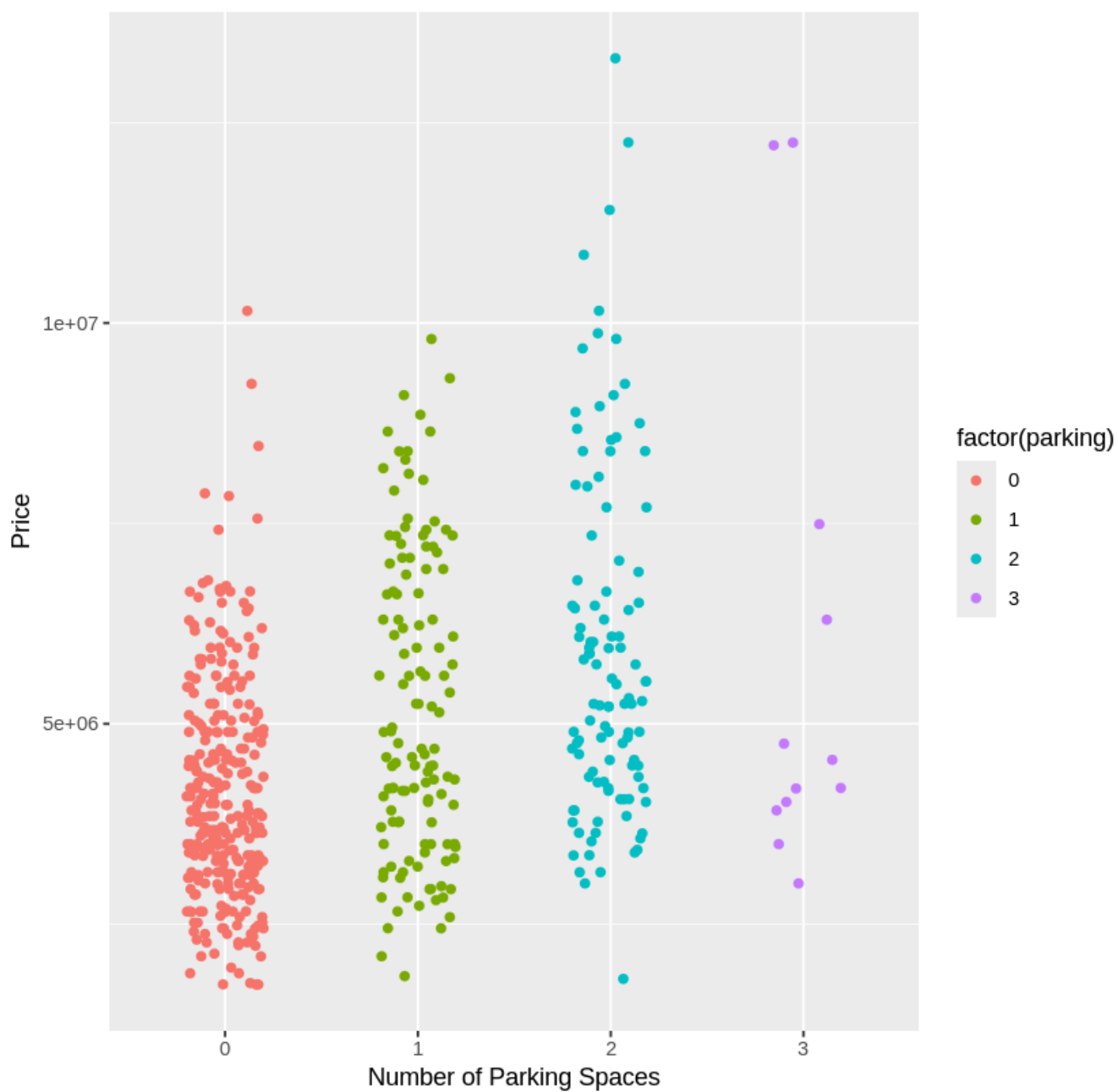
Boxplot of Price by Number of Bedrooms



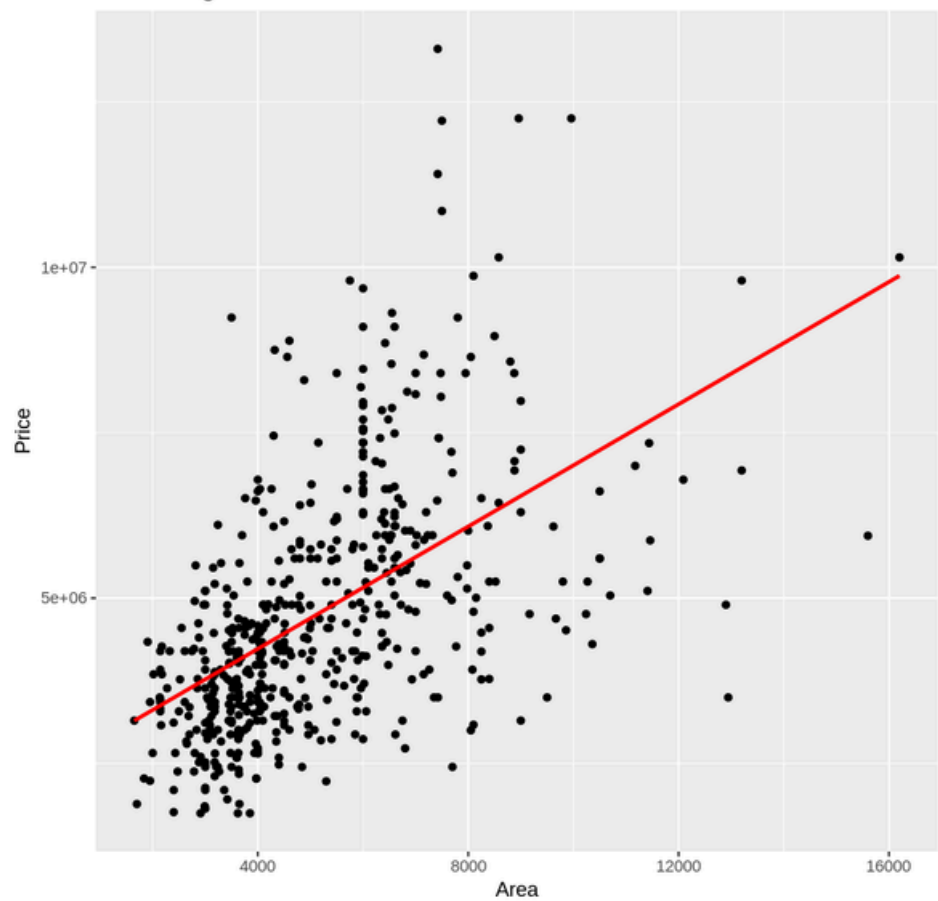
3D Plot of Price vs Area vs Bedrooms



Jitter Plot of Price by Parking



Linear Regression of Price vs Area

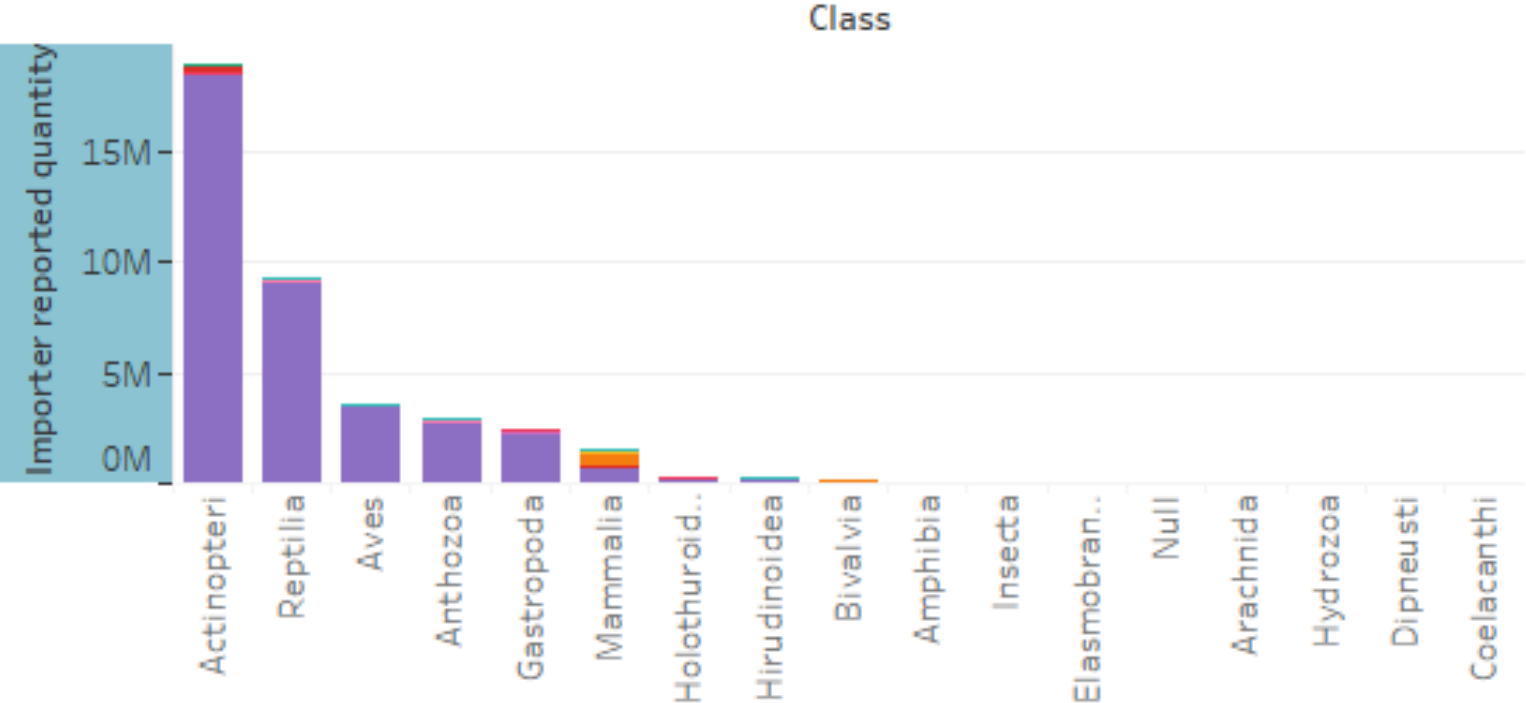


furnished
unfurnished
semi-furnished

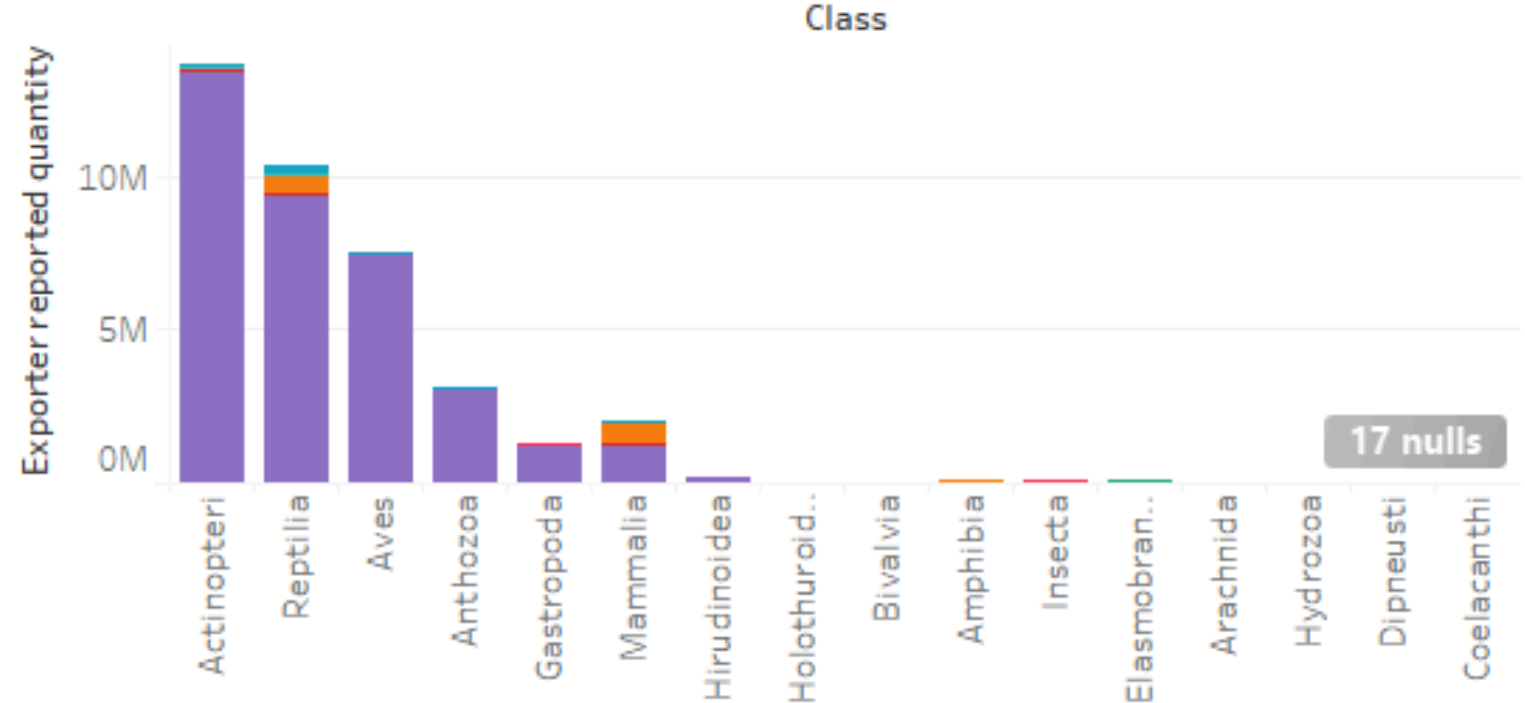
Experiment 6:

Dashboard Using WildLife Dataset

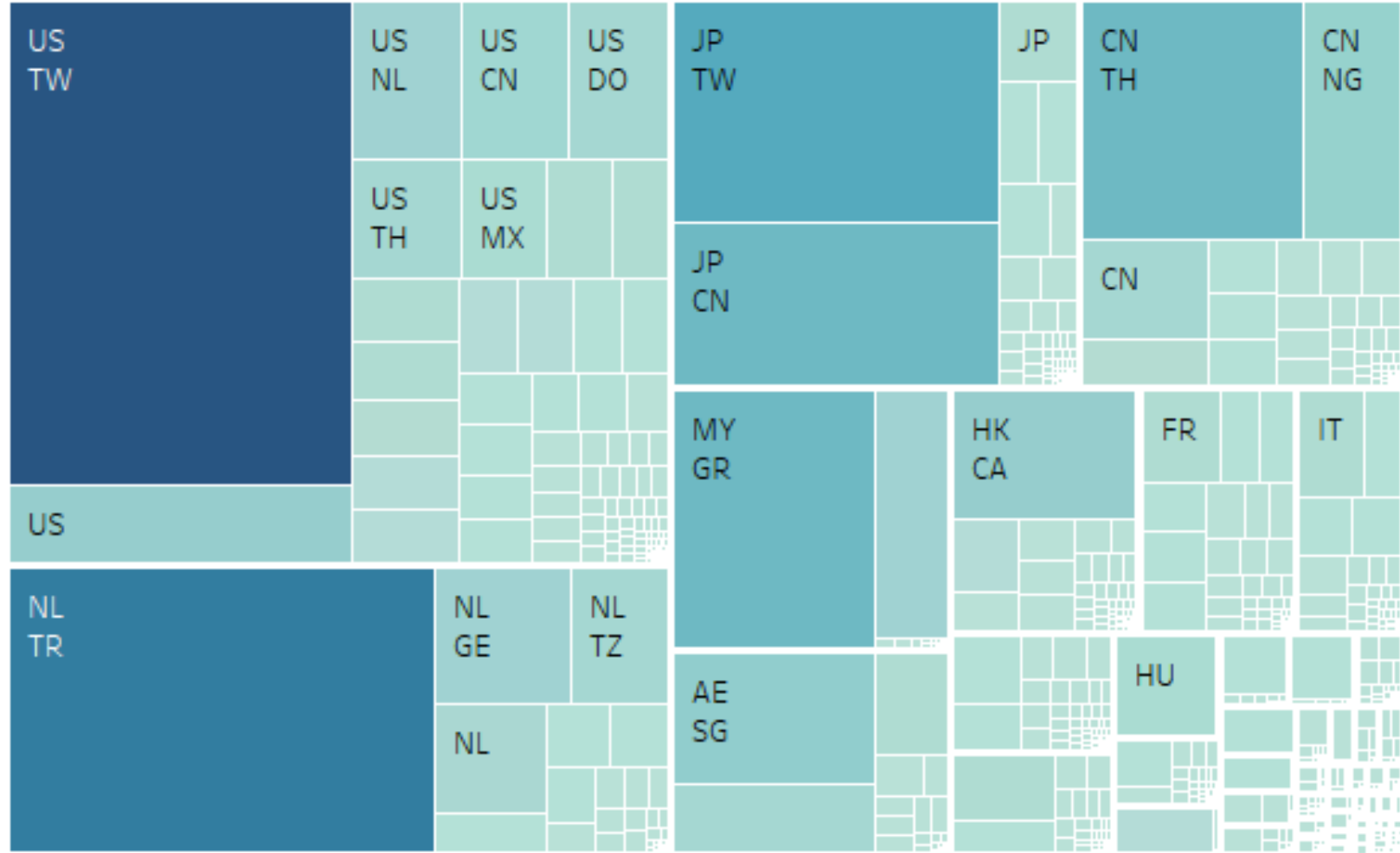
Classes vs Imported Quantities and Purpose



Class vs Exported Quantities



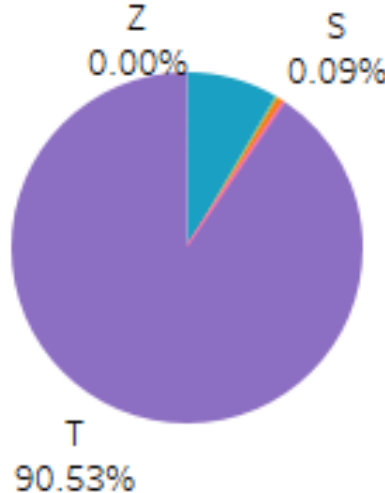
Importer and Exporter and Imported Quantity



Year vs Exported Quantity



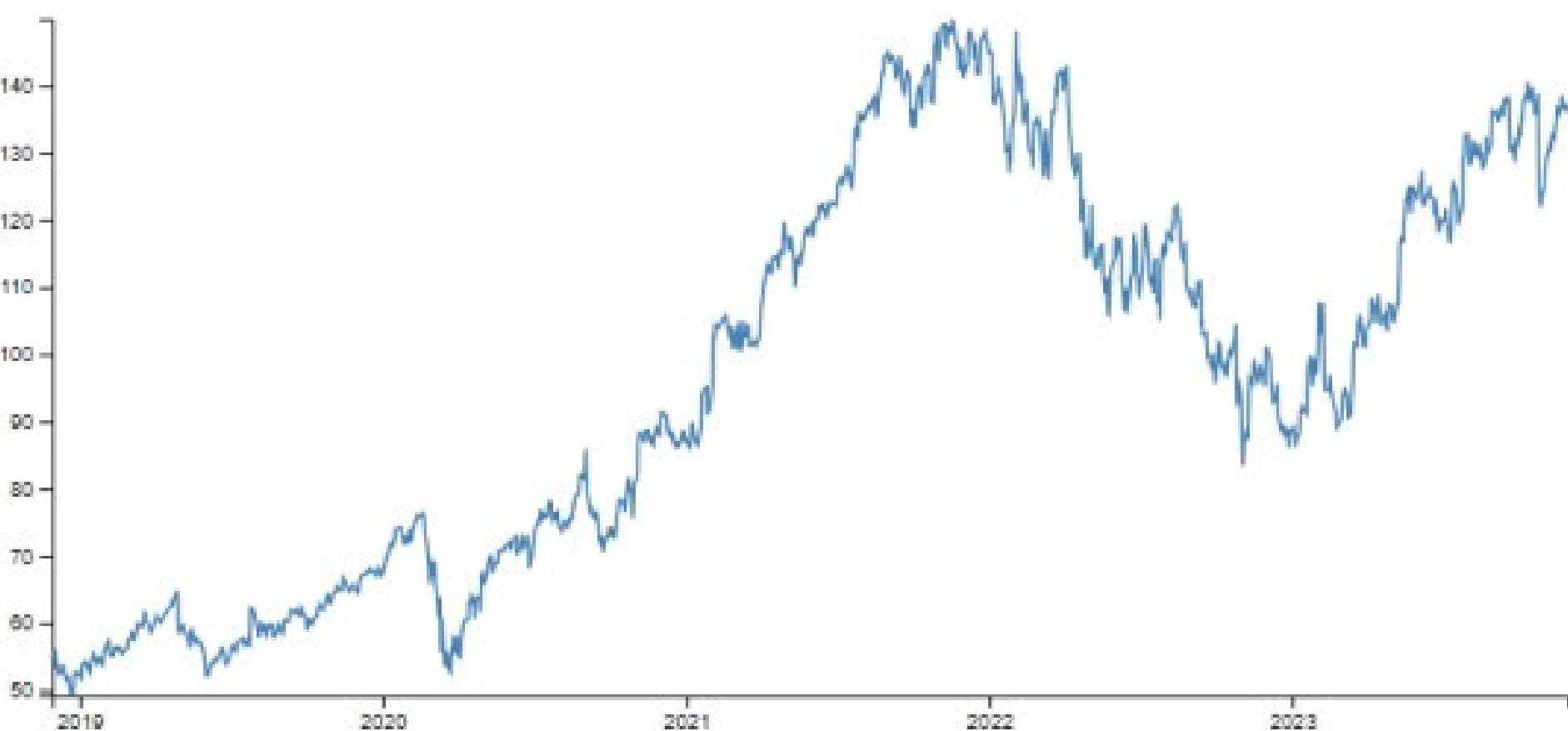
Exported Quantity



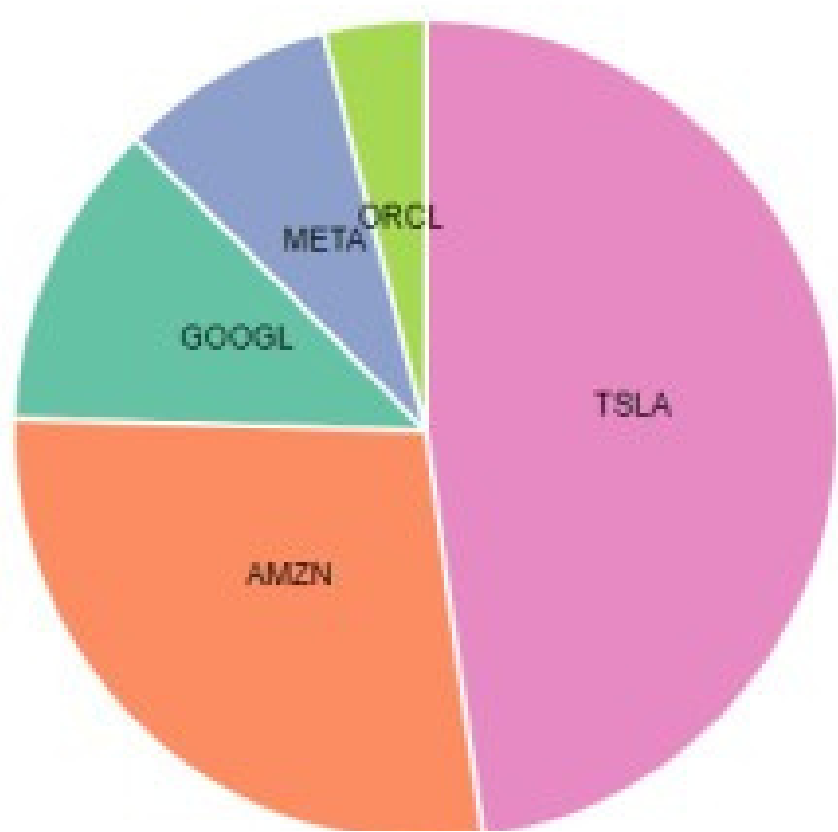
Experiment 7:

Experiment Design for Creating Visualizations using D3.js on a Finance Dataset

1. Line Chart



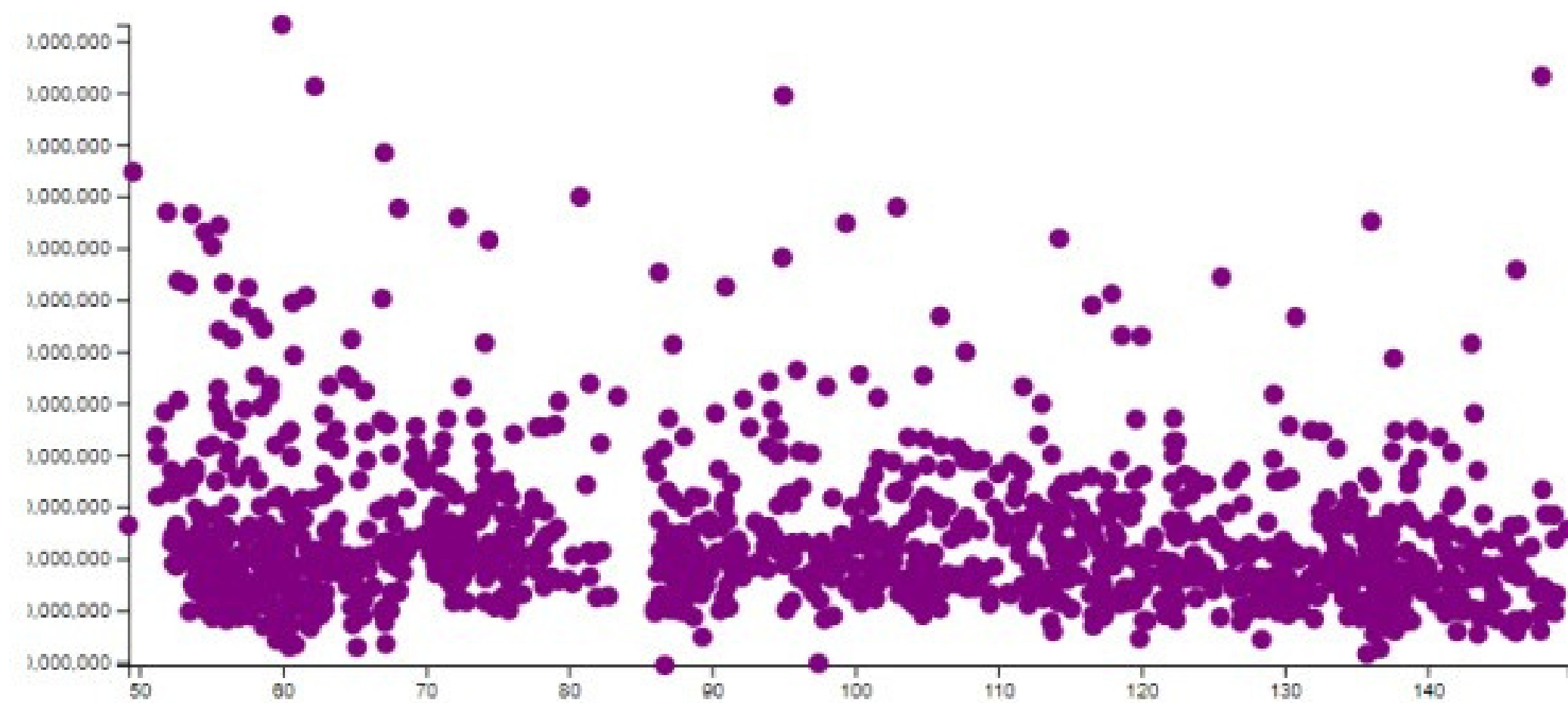
2. Pie Chart



4. Word Cloud

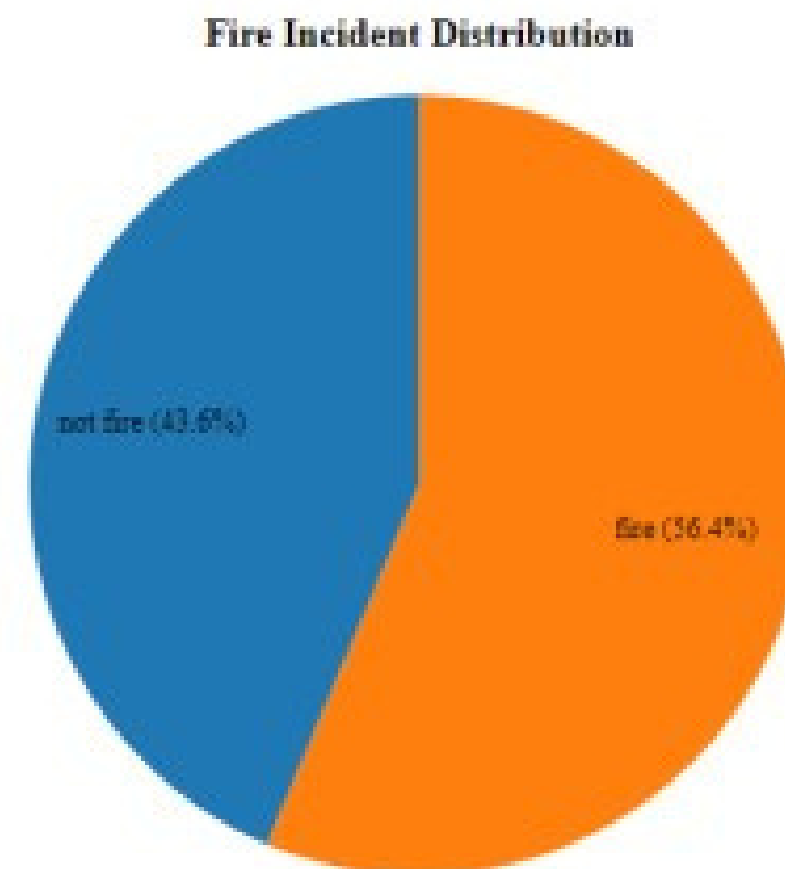
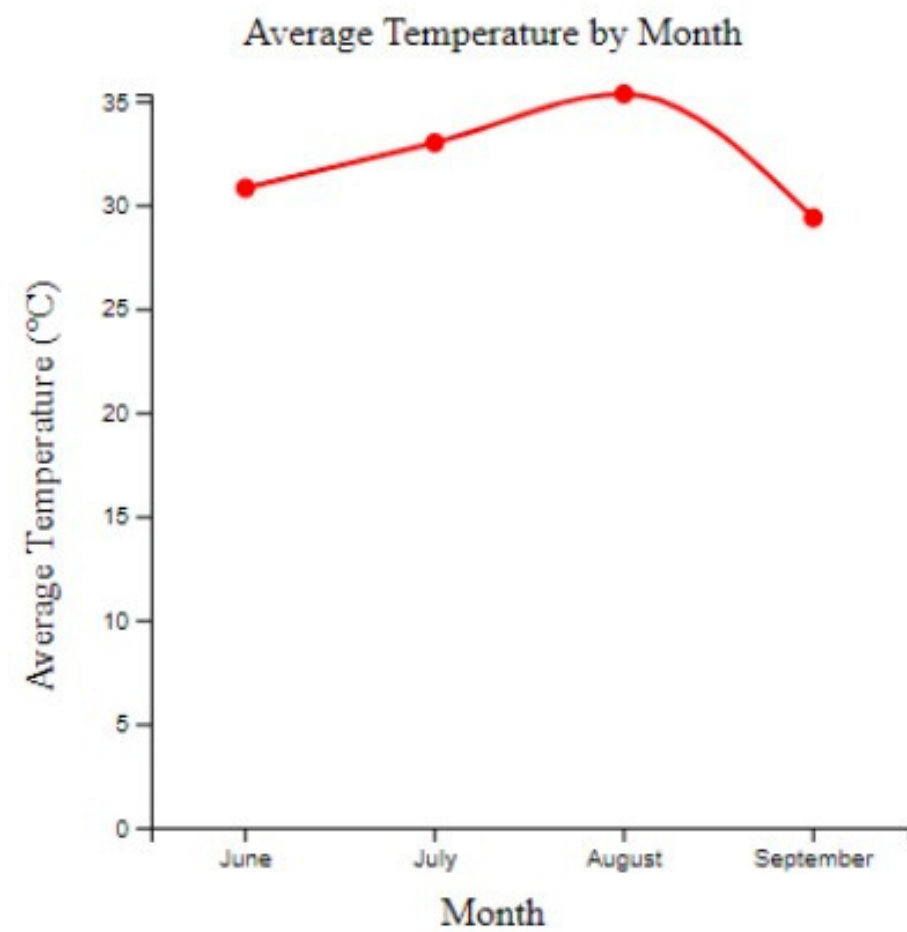
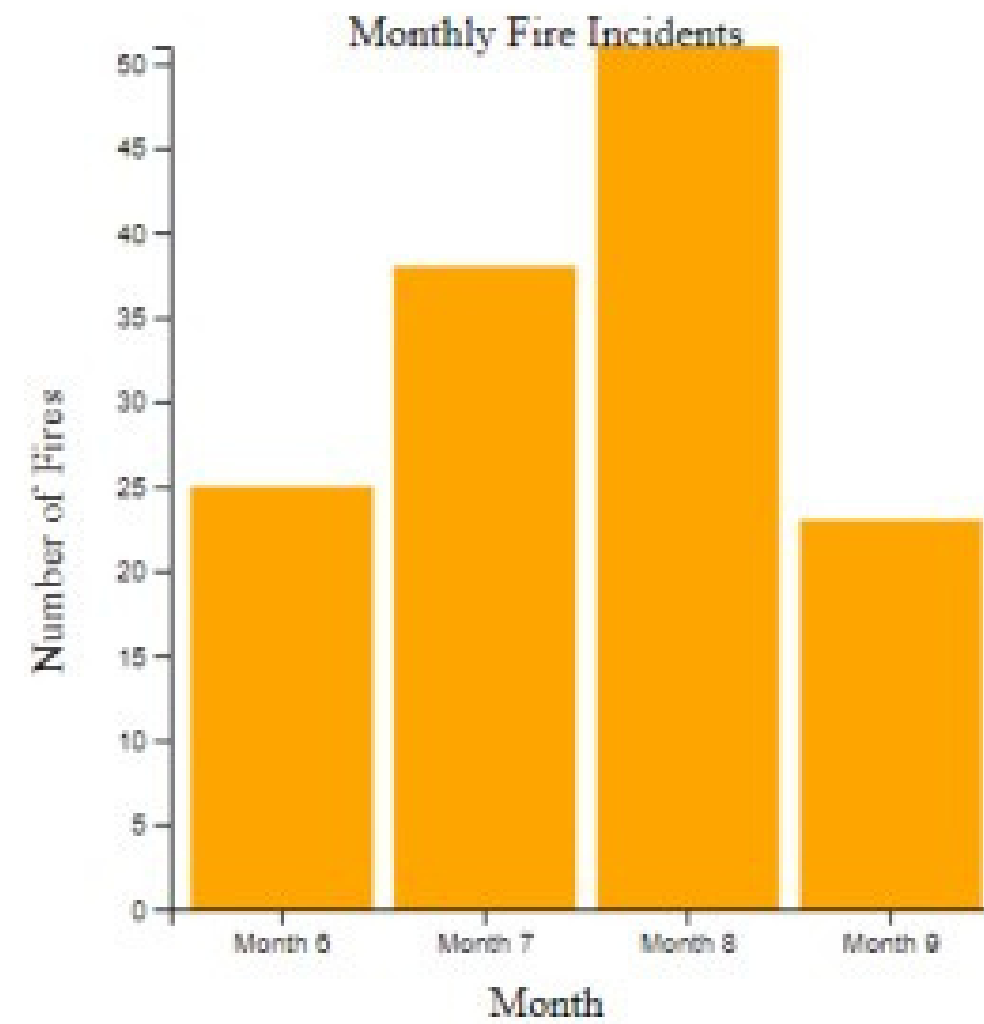
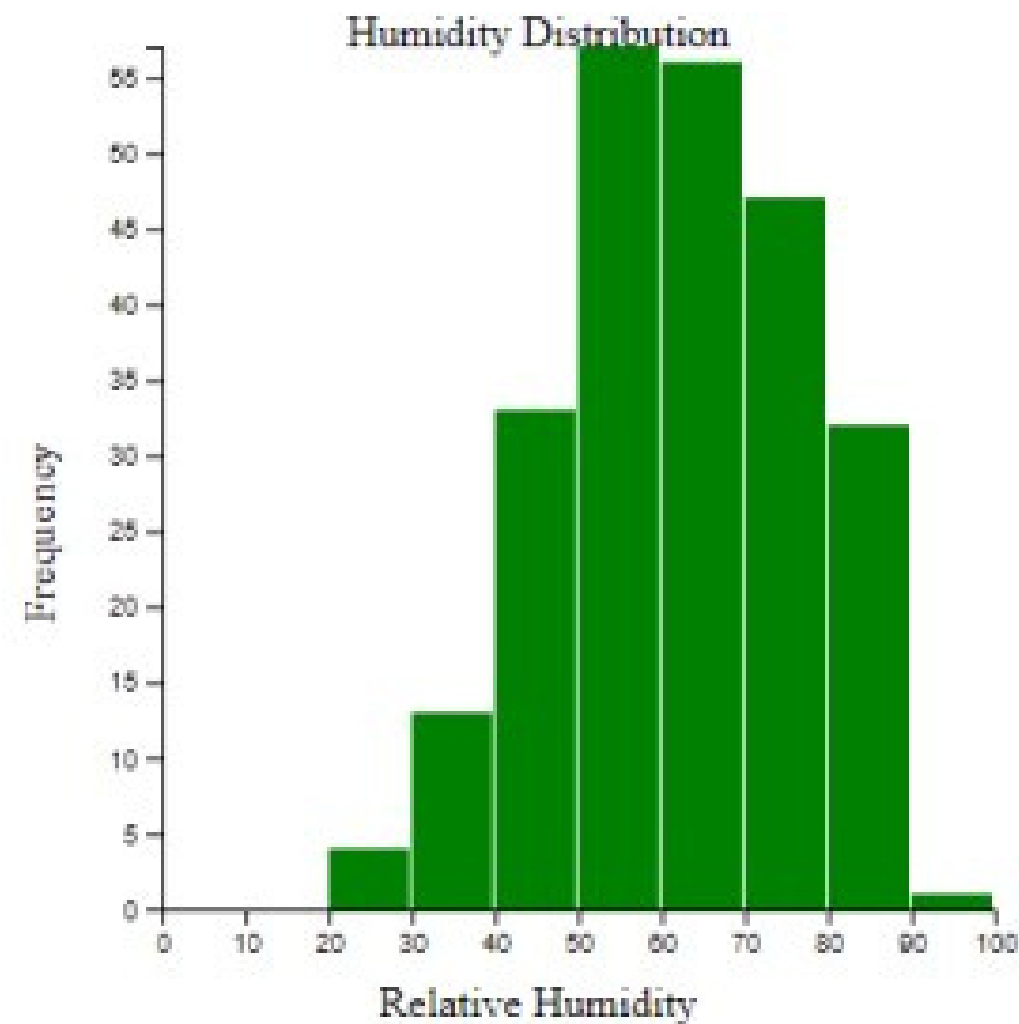
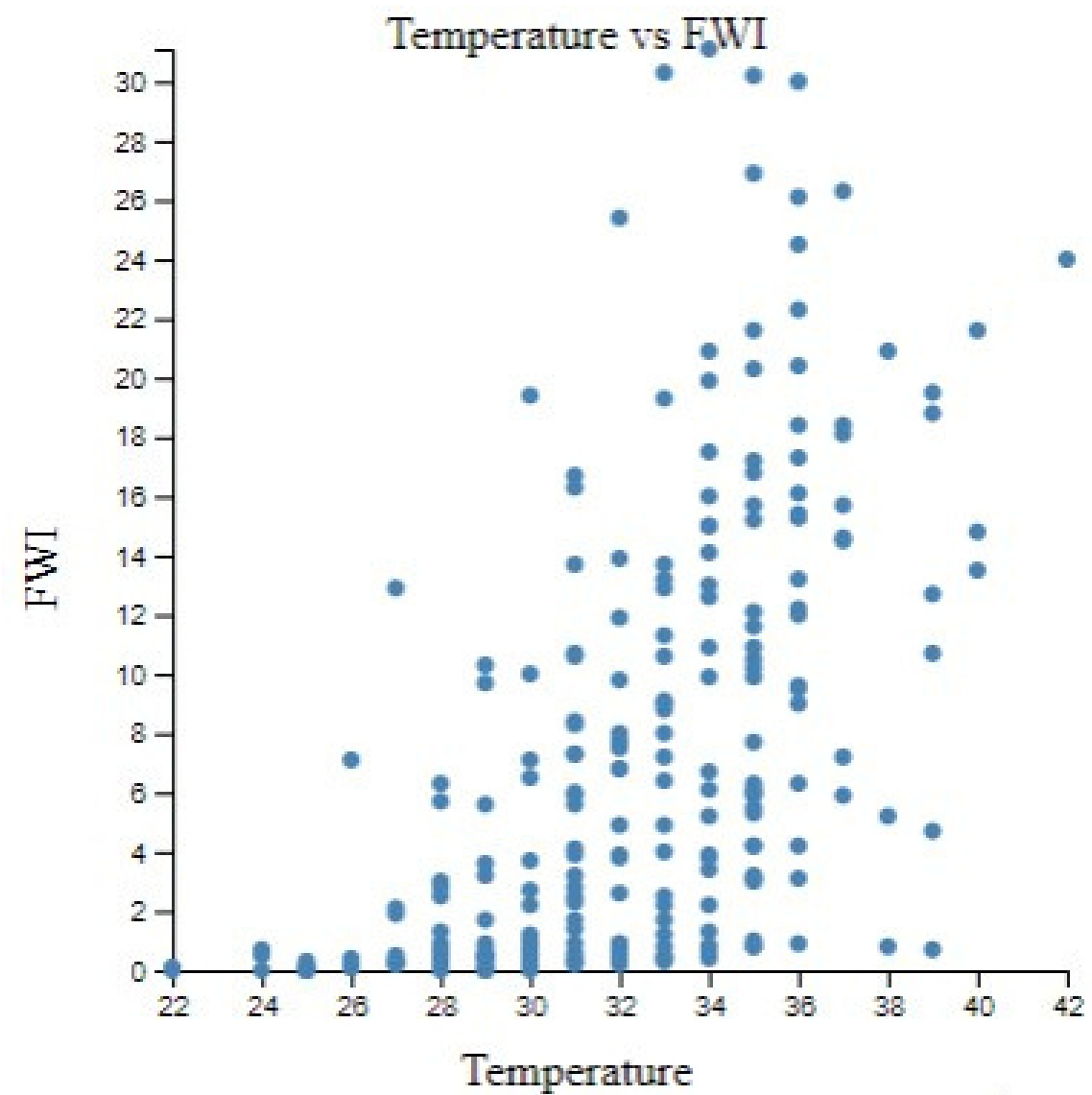


3. Scatter Plot



Experiment 8:

To design interactive dashboards and create visual storytelling using D3.js on a dataset related to Environment/Forest cover, covering basic and advanced charts



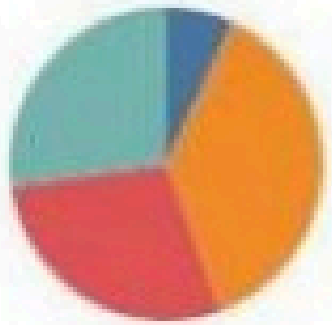
Experiment 9:

Design Big Data Dashboards using Tableau on Women Empowerment/Gender Participation Dataset

Proportion of Women's Empowerment group

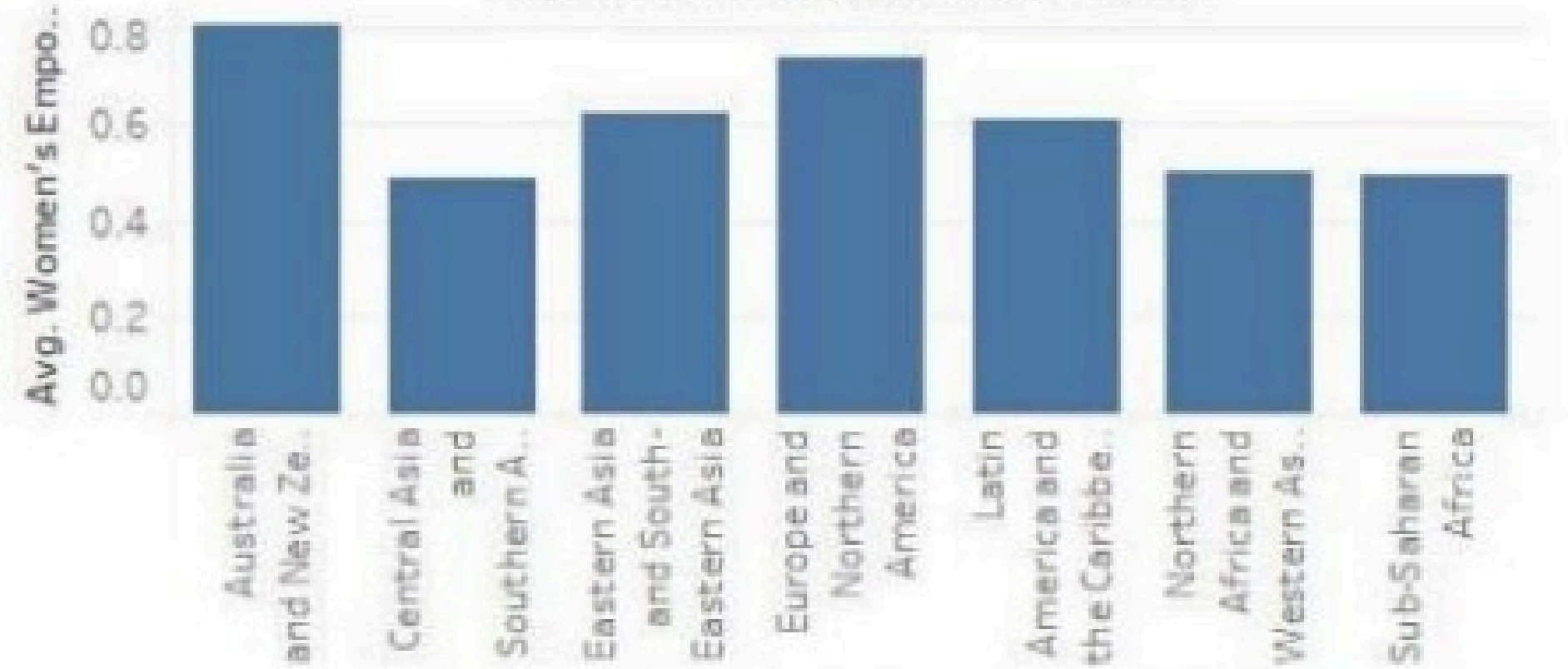
Women's Empowerment Group - 2022

- High
- Low
- Lower-middle
- Upper-middle

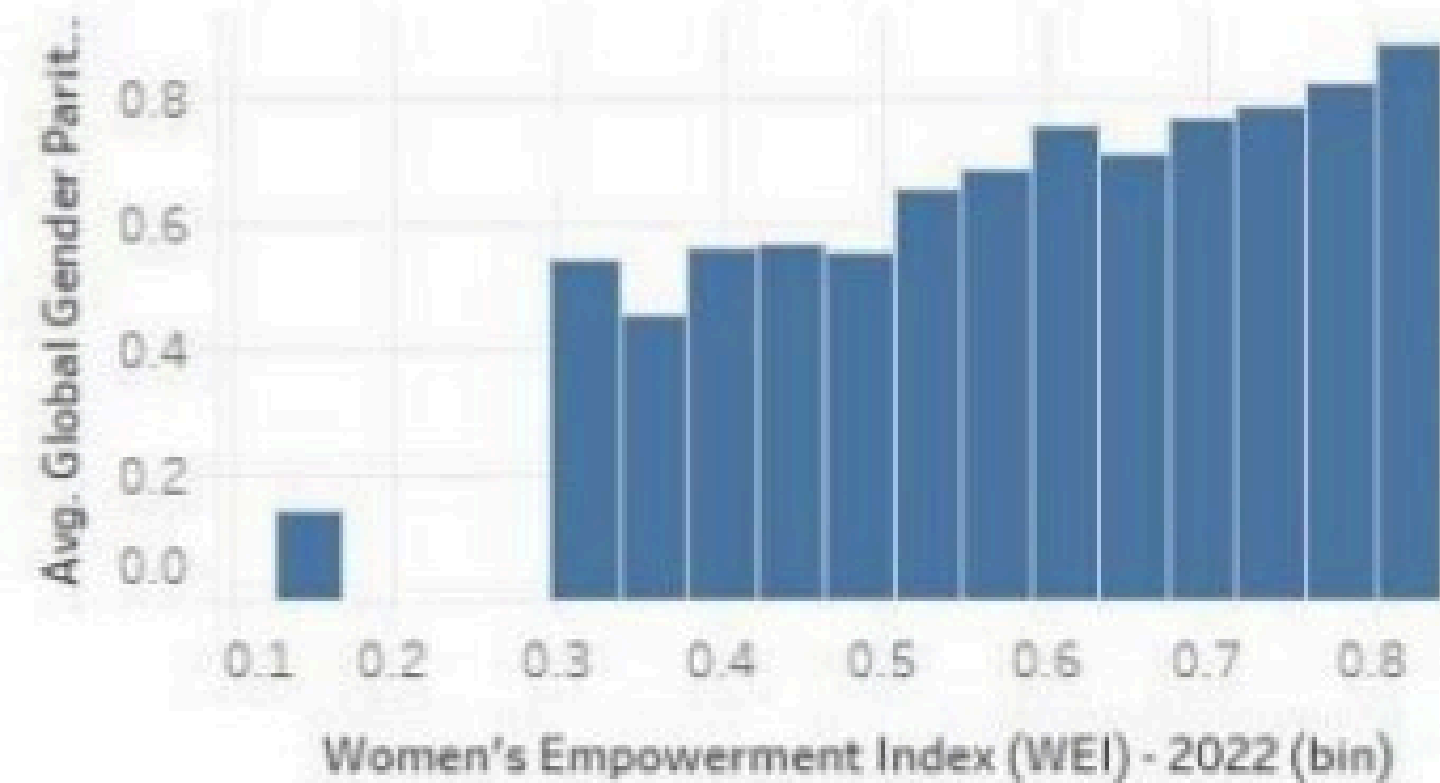


Avg. Women's Empowerment Index by region

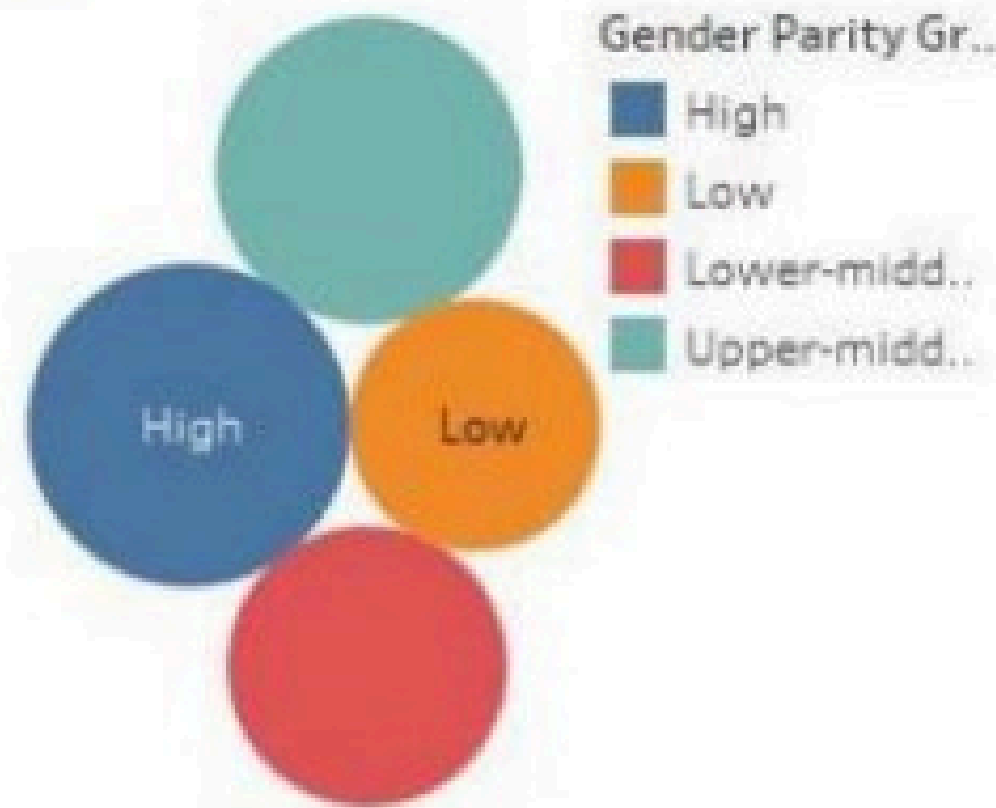
Sustainable Development Goal regions



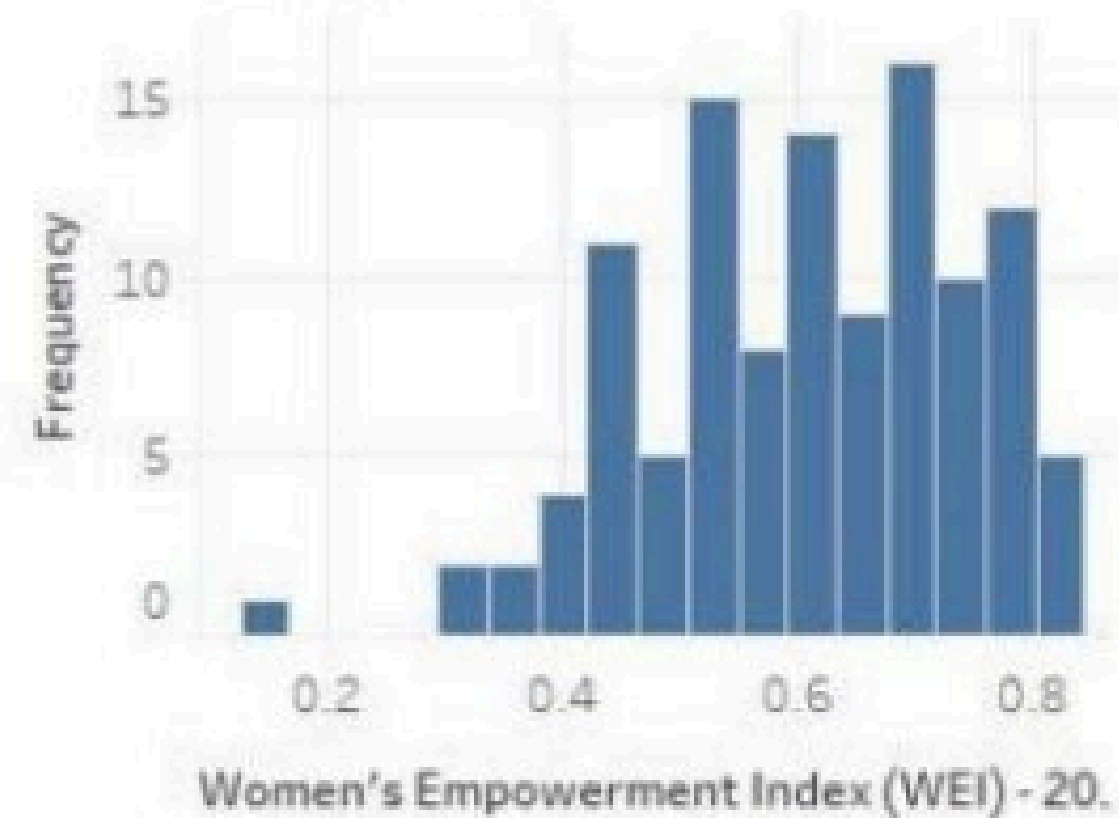
WEI vs Global Gender Parity Index



Avg WEI by Empowerment Group



Distribution of WEI

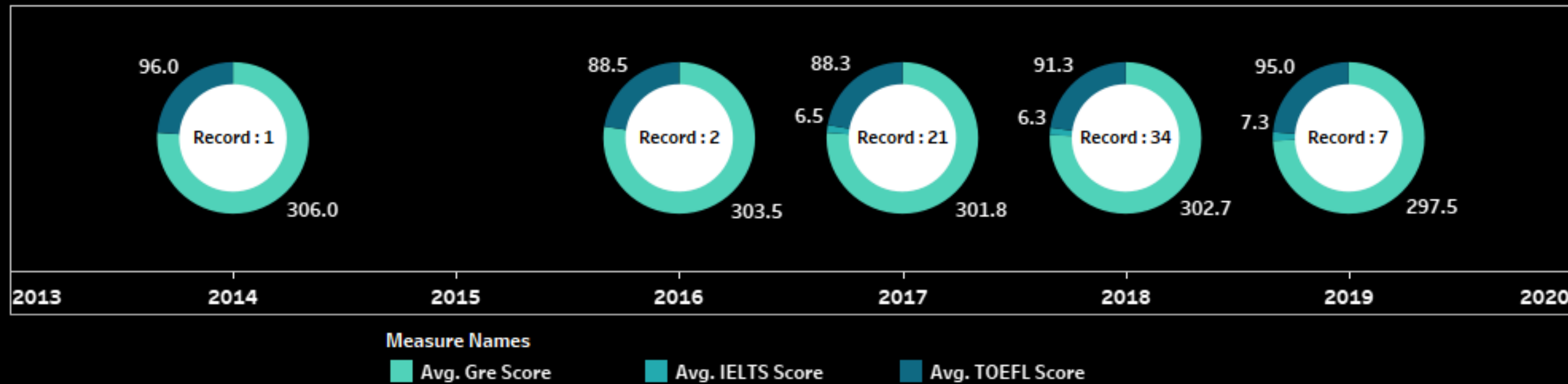


Experiment 10:

Design Big Data Dashboard using Tableau on the dataset-Education Sector

MIS UNIVERSITIES IN USA

University of North Carolina at Charlotte : Average Score Year Wise



Required Score

%	CGPA
0.653	7.598

Percent Admitted

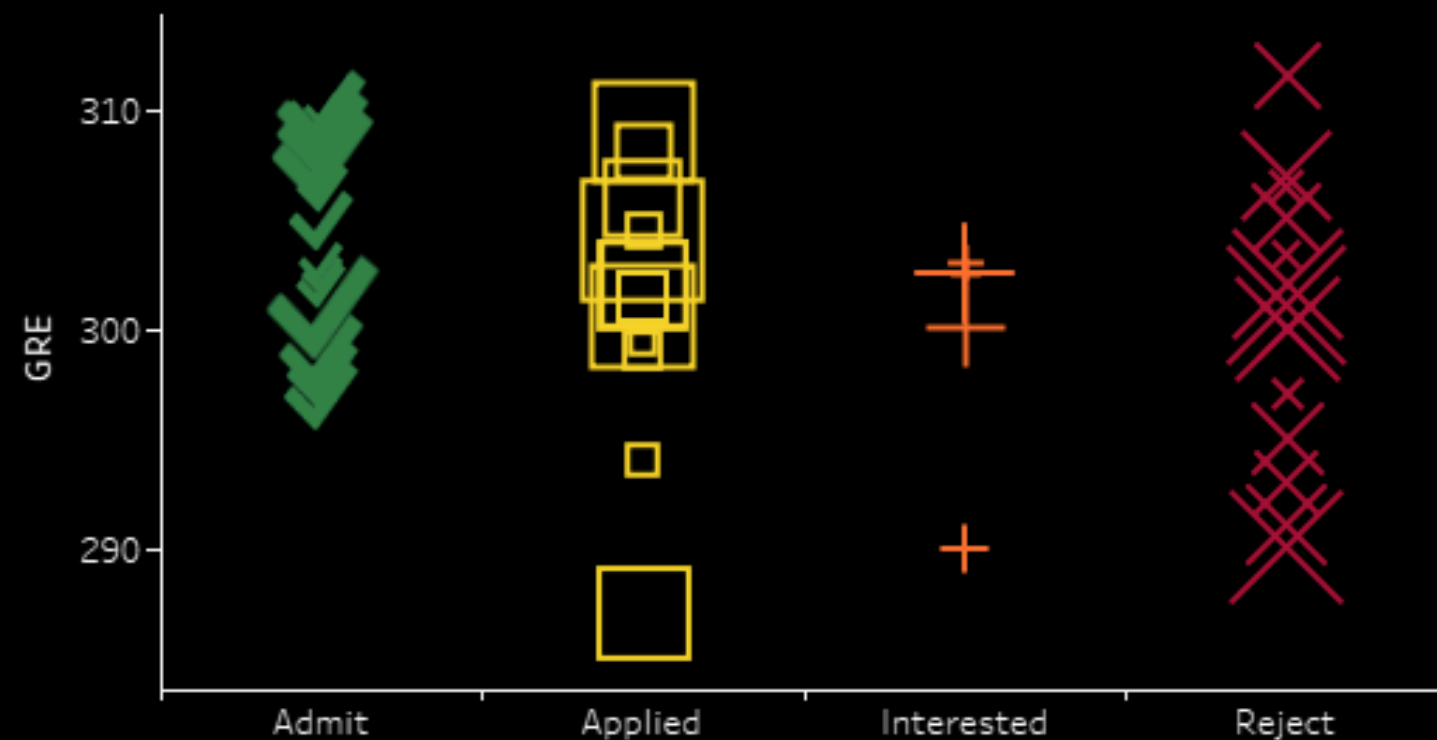
0.26

Percent Rejected

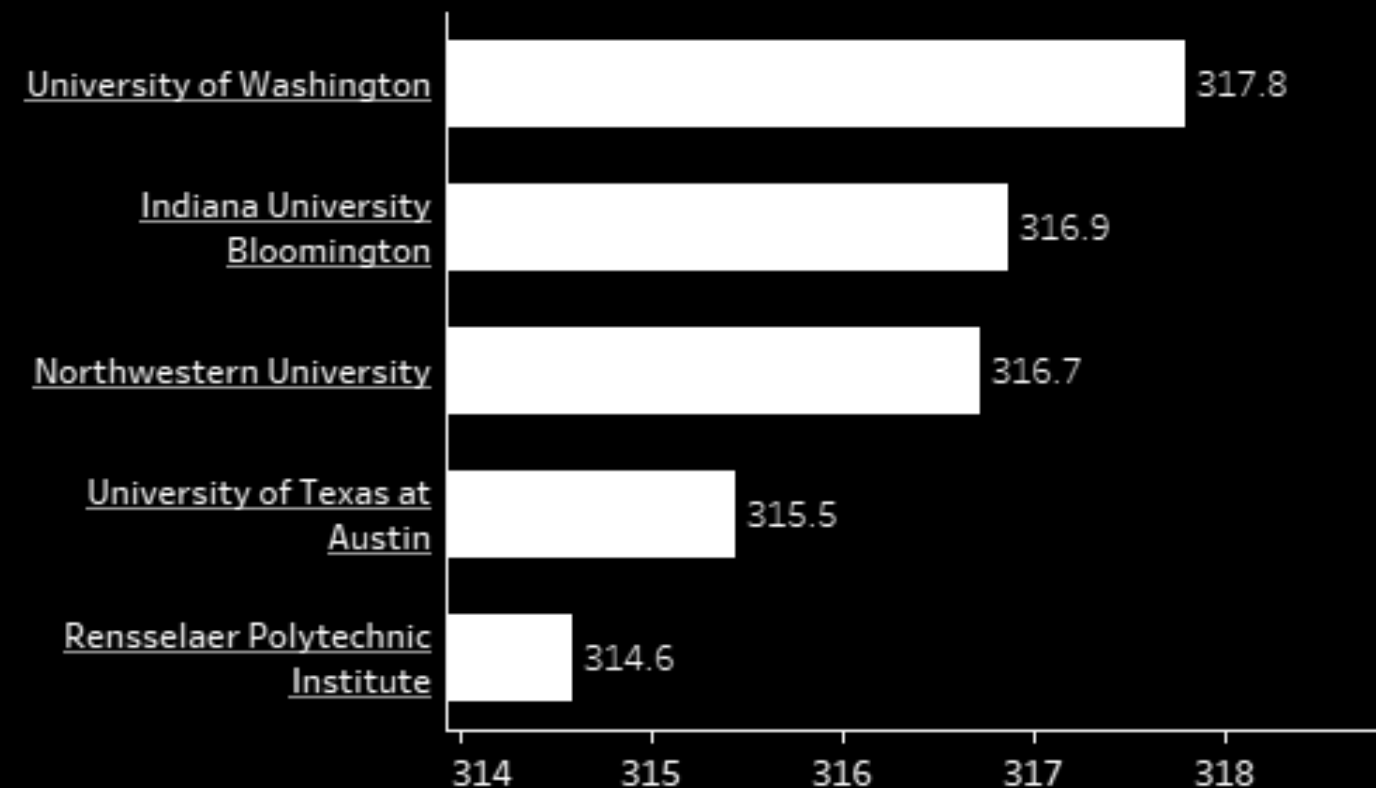
0.29

GRE : Score Wise University status

Weight : Work experience



Universities Admitting for Top Scores : GRE



University

University of North Car... ▼

Status

(All) ▼

Season

(All) ▼

Metrics

GRE ▼