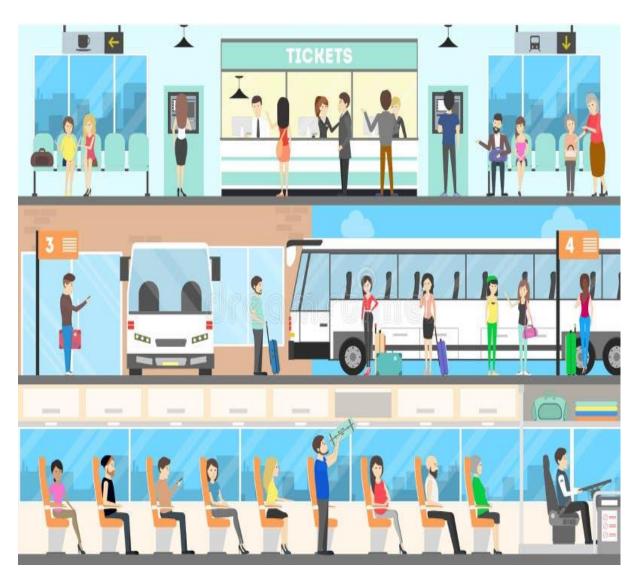
Public transportation analysis

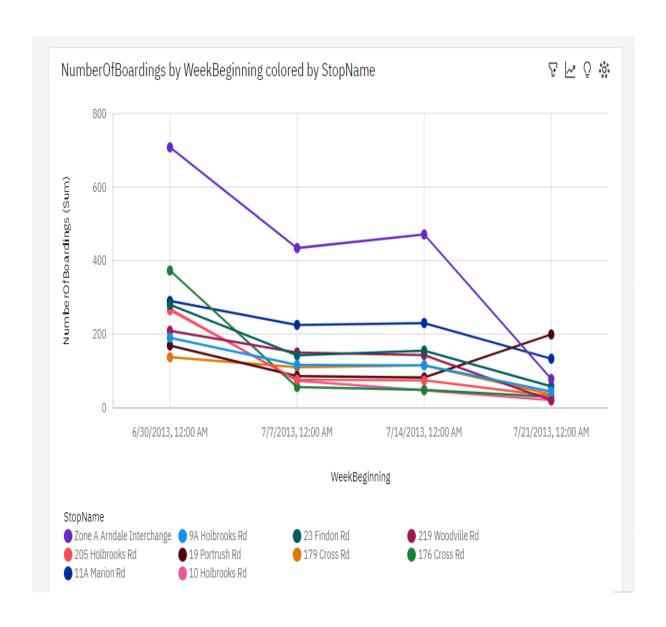
Phase 4: Development part 2

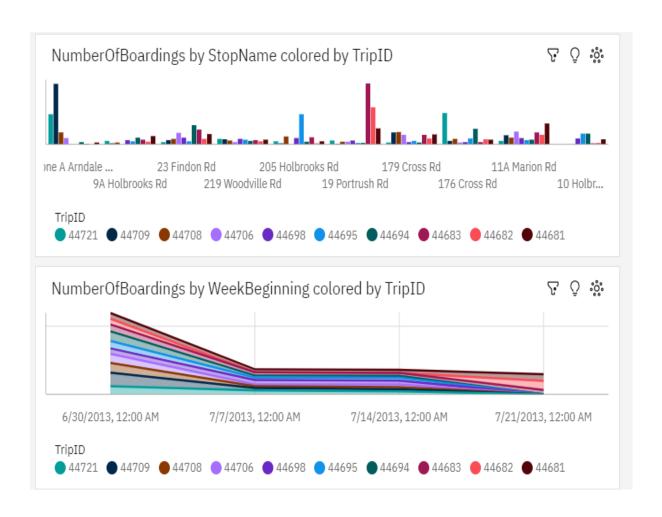


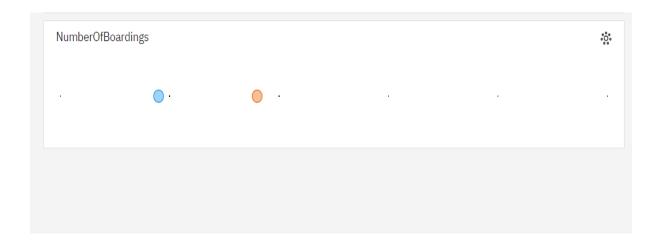
Visualization:

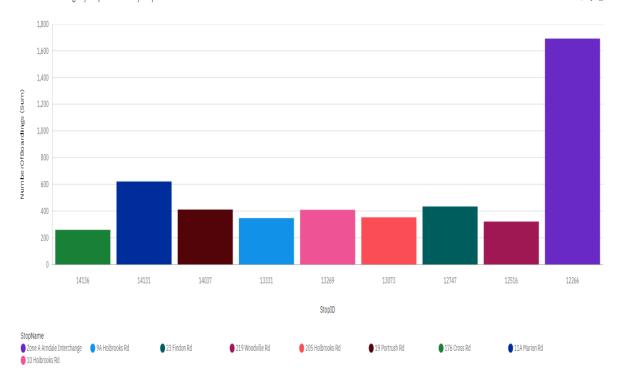
Visualization in data analytics is the process of representing data graphically to gain insights, identify patterns, and communicate findings effectively. Data visualization plays a crucial role in the data analysis process as it helps analysts and stakeholders better understand complex datasets, make data-driven decisions, and communicate their findings to others.

Using IBM Cognos for Visualization:









Report:



Code for advance Data Analysis:

```
import pandas as pd
```

```
# Load data from a CSV file (assuming the data is in a file named 'data.csv')

data = pd.read_csv('project_dataset.csv')

# Calculate punctuality rate (assuming 'NumberOfBoardings' represents successful boardings)

total_boardings = data['NumberOfBoardings'].sum()

total_trips = len(data['TripID'].unique())

punctuality_rate = (total_boardings / total_trips) * 100
```

print(f"Punctuality Rate: {punctuality rate:.2f}%")