MTA Daily Ridership Project

Made by

- Basant Shaker
- George Issa
- Youssef Khaled
- Roqaia Loqman

Data cleaning:

1-Checking and dealing with any missing data

2-Adding columns that will help in the analysis

- Covid Phase
- Subways Category
- Buses Category
- Bridges and Tunnels Category

3-Creating measures, measured columns and tables

- Calculate Max , Min , Avg Percentage For each transit Mode
- Calculate Recovery Gain
- Calculate Total traffic for all transit modes
- Create Transportation Modes table

Project Objectives:

1- **KPIs:**
   - Total Ridership for each transit mode.
   - Average percentages pre-pandemic for each transit mode.

2- **Understand ridership trends across different transportation modes (Time series).**

3- **Analyze the impact of the COVID-19 pandemic on ridership**
   - Identify the largest drop
   - Compare the impact across transit modes

4- **Ridership recovery rate across different modes of transportation (subways, buses, LIRR, Metro-North, Access-A-Ride, Bridges and Tunnels, Staten Island Railway)**

5- **Analyze The most three modes in Ridership**

6- **Analyze Covid Phases (Early, Mid, Late and post Covid)**

Insights

1- Subways and Buses has the most Ridership
2- 2020 April is the month with the most significant ridership drop
3- The post covid Period (Between 2023 and 2024) has the highest average percentage
4- Medium category has the most Ridership for Subways and Buses
5- High category has the most Ridership for Bridges and Tunnels