Data

- start (latitude, longitude, name, time) and end (latitude, longitude, name, time) as well as trip duration. Additional data is available for some years but not leverage in this analysis. · Citi Bike data pulled from CitiBike's public data (https://s3.amazonaws.com/tripdata/index.html) includes anonymized data about each recorded bike ride such as where rides
 - · Individual files downloaded locally for 2018 through 2022 and processed using the jupyter notebook file included in my Tableau analysis workspace to create a single source file - Citi Bike's changed the data format between Jan 2021 and Feb 2021 so the script runs separately for Jan 2018 - Jan 2021 and Feb 2021 - Dec 2022. Then updates header
- names to align and merges the two chunks. Nulls are left in the columns that exist in one but not the other.
- Citi Bike's data has multiple latitude / longitude locations tied to the same station name. As a result, this file consolidates latitude and longitude coordinates to a single latitude / longitude per station name by finding the average value use at each starting and each end location and overwriting the downloaded values
 - · Additional modeling completed within Power BI:
- Created column to display weekday name for both start and end dates
- Created ride count measure
- Created YoY% Ride Count change measure

Features / Reports

- Monthly total ride count with YoY % growth in parallel
- · Monthly total ride count with YoY % growth in parallel separated by User Type (Subscriber vs. Not)
- Interactive 2021-2022 Monthly Usage filterable by year/quarter/month/year and Starting Station name with map indicating ride count and YoY% growth
 - · Interactive 2021-2022 Daily Usage filterable by year/quarter/month/day of the week and Starting Station name with map indicating ride count
 - · Interactive 2021-2022 Daily Usage filterable by year/quarter/month/day of the week and Ending Station name with map indicating ride count
 - · Interactive 2021-2022 Ride Count station maps for Starting and Ending stations by year/quarter/month

2018-2022 Monthly Usage: Ride Count

Count of ride_id 0.00M

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2018-2022 Monthly Usage: Ride Count by Usertype

User Types: ONon-Subscribers OSubscribers

