<<<https://citibikenyc.com/system-data>>>

Overview

Citibike data source, format and kind of information is listed on the above link. As in SMU Data Science bootcamp, model 18 challenge. I have used this data and created various charts those are represented here in this dashboard.

System Data

Where do Citi Bikers ride? When do they ride? How far do they go? Which stations are most popular? What days of the week are most rides taken on? We've heard all of these questions and more from you, and we're happy to provide the data to help you discover the answers to these questions and more. We invite developers, engineers, statisticians, artists, academics and other interested members of the public to use the data we provide for analysis, development, visualization and whatever else moves you.
This data is provided according to the NYCBS Data Use Policy.

Citi Bike Trip Histories

We publish downloadable files of Citi Bike trip data. The data includes:

- Ride ID
- Rideable type
- Started at
- Ended at
- Start station name
- Start station ID
- End station name
- End station ID
- Start latitude
- Start longitude
- End latitude
- End Longitude
- Member or casual ride

This data has been processed to remove trips that are taken by staff as they service and inspect the system, trips that are taken to/from any of our "test" stations (which we were using more in June and July 2013), and any trips that were below 60 seconds in length (potentially false starts or users trying to re-dock a bike to ensure it's secure).

Download Citi Bike trip history data

Real-Time Data

Citi Bike publishes real-time system data in General Bikeshare Feed Specification format. Get the GBFS feed here.

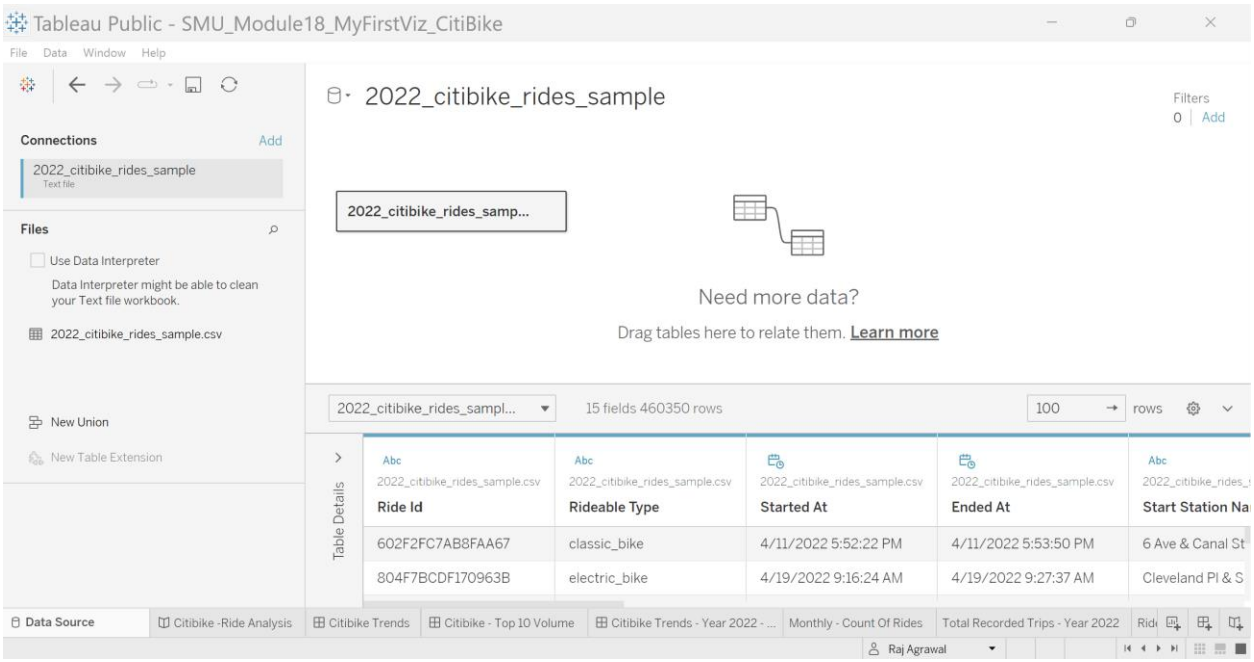
Monthly Operating Reports

View the monthly operating reports that we provide to the NYC Department of Transportation.

Additional Resources

1. The City of New York's bicycling data
2. A group of software developers and data explorers working with data feeds from NYC's Bike Share system and other bike data maintain this Google Group (note: Citi Bike is not responsible for this group – it is run and maintained by a group of interested private citizens)

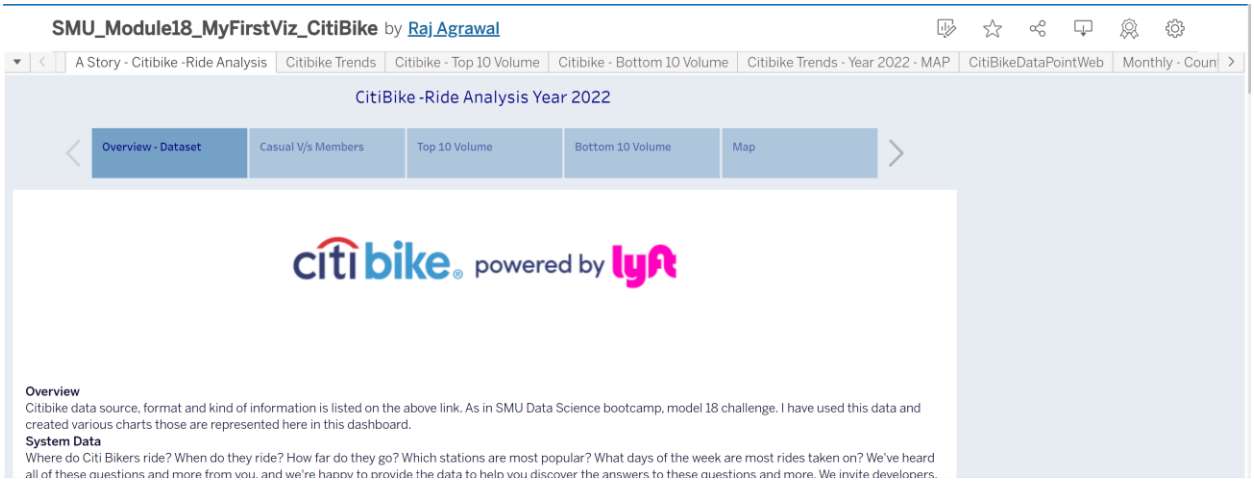
A. This is the layout of the dataset in Tableau Public



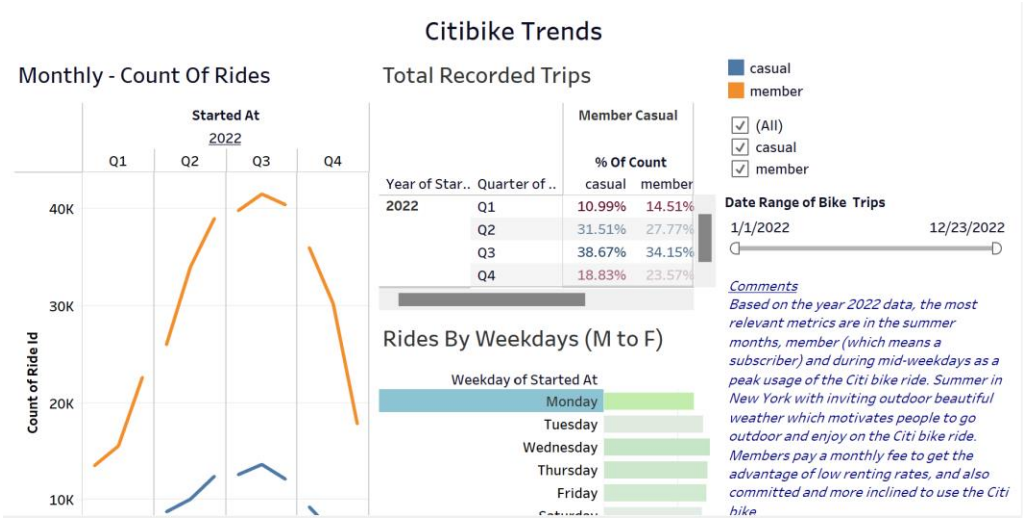
B. Sample dataset format and fields

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	ride_id	rideable_type	started_at	ended_at	start_station_name	start_station_id	end_station_name	end_station_id	start_lat	start_lng	end_lat	end_lng	member_casua
2	C694E40A6A22AEB5	electric_bike	1/10/2022 6:40	1/10/2022 6:59	W 64 St & Thelonious Monk Circle	7123.04	E 33 St & 1 Ave	6197.08	40.7751595	-73.989187	40.7432268	-73.9744978	member
3	848E6E7284EE384C	classic_bike	1/14/2022 9:07	1/14/2022 9:10	McGuinness Blvd & Eagle St	5977.01	India St & Manhattan Ave	5826.02	40.73555	-73.95284	40.7323219	-73.9550858	member
4	242621C23435EAB6	classic_bike	1/31/2022 8:05	1/31/2022 8:26	W 26 St & 10 Ave	6382.05	E 53 St & Lexington Ave	6617.09	40.7497178	-74.0029503	40.7582807	-73.9706943	member
5	2ED188EC389834CC	classic_bike	1/18/2022 11:34	1/18/2022 11:46	Pike St & E Broadway	5270.05	Market St & Cherry St	5198.04	40.7140667	-73.9929391	40.7107623	-73.994004	member
6	A111FE6BDB460683	electric_bike	1/23/2022 4:03	1/23/2022 4:44	W 54 St & 9 Ave	6920.03	Bushwick Ave & Linden St	4600.09	40.7658494	-73.9869051	40.69146	-73.92146	member
7	C08E15A5A8408C60	classic_bike	1/11/2022 17:23	1/11/2022 17:28	S 4 St & Wythe Ave	5204.05	Broadway & Roebling St	5125.07	40.7128589	-73.9659029	40.7092483	-73.9606315	casual
8	8451E3B87DA0E573	electric_bike	1/23/2022 11:43	1/23/2022 11:49	2 Ave & E 29 St	6122.09	E 13 St & 2 Ave	5820.08	40.7417235	-73.9780927	40.7315394	-73.9853024	member
9	D48BF144D85310D7	classic_bike	1/17/2022 19:43	1/17/2022 19:51	E 5 St & Ave A	5626.06	Rivington St & Chrystie St	5453.01	40.7247901	-73.9843006	40.7211006	-73.9919254	member
10	FAB7471DAE879576	classic_bike	1/25/2022 20:57	1/25/2022 21:00	Vernon Blvd & 50 Ave	6170.02	46 Ave & 5 St	6286.02	40.7423274	-73.9541175	40.74731	-73.95451	casual
11	529319D02048287F	electric_bike	1/30/2022 14:53	1/30/2022 15:00	W 53 St & 10 Ave	6890.01	W 37 St & 10 Ave	6611.02	40.7666967	-73.9906173	40.7566036	-73.9979009	member
12	B6D22C2A59453BE0	electric_bike	1/20/2022 17:56	1/20/2022 17:58	Flushing Ave & Vanderbilt Ave	4762.05	Flushing Ave & Vanderbilt Ave	4762.05	40.6979503	-73.9707756	40.6979503	-73.9707756	member
13	E4E282193C6302A7	classic_bike	1/2/2022 13:47	1/2/2022 14:14	Putnam Ave & Throop Ave	4392.04	Willoughby Ave & Wyckoff Ave	5010.02	40.6851532	-73.94111	40.705614	-73.92153	casual
14	881569B2F497AC8F	classic_bike	1/28/2022 1:36	1/28/2022 2:12	E 4 St & 2 Ave	5593.04	E 11 St & Avenue B	5659.11	40.7262807	-73.9897804	40.7274642	-73.9795042	casual
15	1CAE6C729858B436	classic_bike	1/31/2022 14:24	1/31/2022 14:27	Douglass St & 3 Ave	4217.02	3 Ave & Carroll St	4143.04	40.6802133	-73.984327	40.677027	-73.9865	member
16	0B82E48B4BCD10AF	electric_bike	1/5/2022 18:46	1/5/2022 18:52	Union Ave & Jackson St	5300.06	Scholes St & Manhattan Ave	5108.01	40.7160751	-73.952029	40.7087037	-73.9448625	member
17	B05A7CBBBDB89F23	electric_bike	1/22/2022 14:21	1/22/2022 14:33	Graham Ave & Grand St	5178.06	Lewis Ave & Madison St	4425.02	40.711863	-73.944024	40.686312	-73.935775	casual
18	B3044FE6215FD45B	classic_bike	1/10/2022 21:36	1/10/2022 21:39	Atlantic Ave & Furman St	4614.04	Columbia St & Degraw St	4422.04	40.6916518	-73.9999786	40.6859296	-74.0024236	member
19	077CF7F0367B7F8E	electric_bike	1/31/2022 17:47	1/31/2022 17:50	E 68 St & 3 Ave	6896.16	E 68 St & Madison Ave	6932.15	40.7671284	-73.9622462	40.7691572	-73.9670346	member
20	3E2C53B371086D9B	docked_bike	1/25/2022 14:51	1/25/2022 15:08	24 Ave & 26 St	7152.1	24 St & 41 Ave	6505.09	40.774591	-73.918544	40.752474	-73.939991	casual
21	39C0CA1D47288C94	electric_bike	1/6/2022 18:31	1/6/2022 18:42	6 St & 7 Ave	3834.1	Eastern Pkwy & Washington Ave	3928.08	40.6686627	-73.9798807	40.6716493	-73.9631145	member
22	B3AC3E923ECCF11C	electric_bike	1/25/2022 17:39	1/25/2022 17:55	1 Ave & E 68 St	6822.09	Kent St & McGuinness Blvd	5785.1	40.7650053	-73.9581849	40.73124	-73.95161	member
23	0F12515362FEB992	classic_bike	1/13/2022 15:08	1/13/2022 15:16	E 39 St & Lexington Ave	6389.09	E 27 St & 1 Ave	6004.06	40.7494985	-73.977292	40.739445	-73.976806	member
24	6AED98EA8C2E0C18	electric_bike	1/21/2022 19:53	1/21/2022 19:56	Central Park West & W 72 St	7141.07	7 Ave & Central Park South	6912.01	40.7757938	-73.9762057	40.7667406	-73.979069	member
25	0B8A0EF22ABBA4F9	classic_bike	1/24/2022 18:06	1/24/2022 18:23	W 13 St & 5 Ave	5947.04	Suffolk St & Stanton St	5445.02	40.735445	-73.99431	40.7206644	-73.9851798	member
26	12F050C2D656055F	electric_bike	1/13/2022 21:39	1/13/2022 21:41	E 56 St & 3 Ave	6691.11	E 53 St & Lexington Ave	6617.09	40.759345	-73.9675967	40.7582807	-73.9706943	member

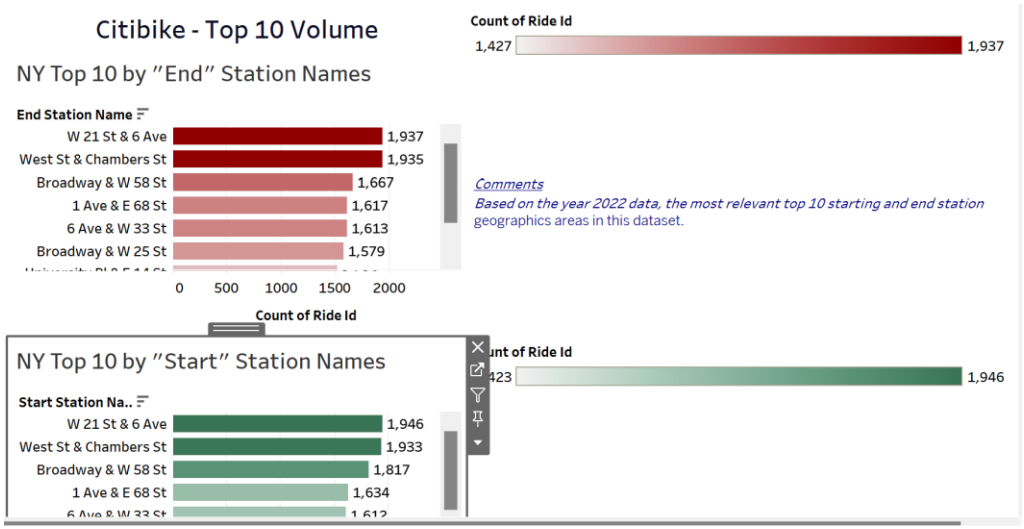
C. Story – combined dashboards & dashboard included worksheets



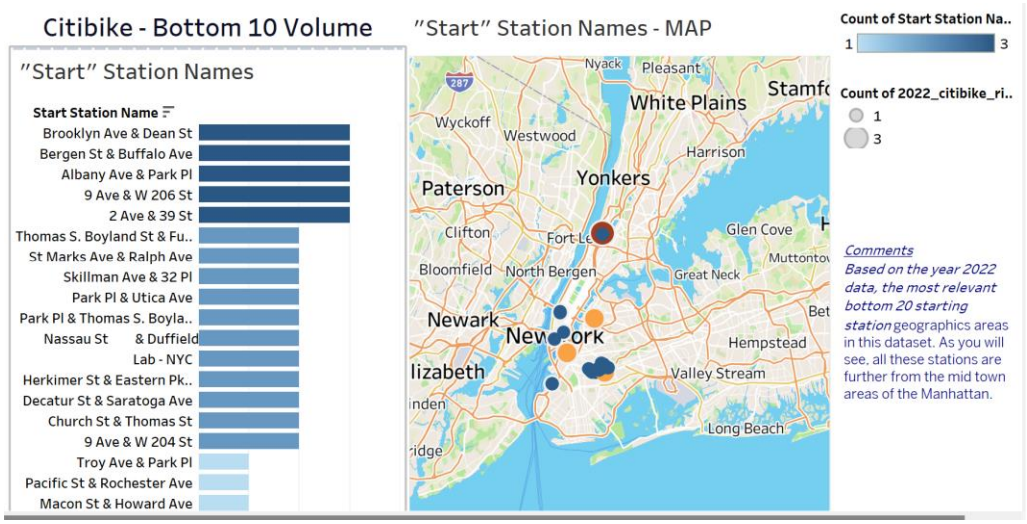
D. dashboard included worksheets



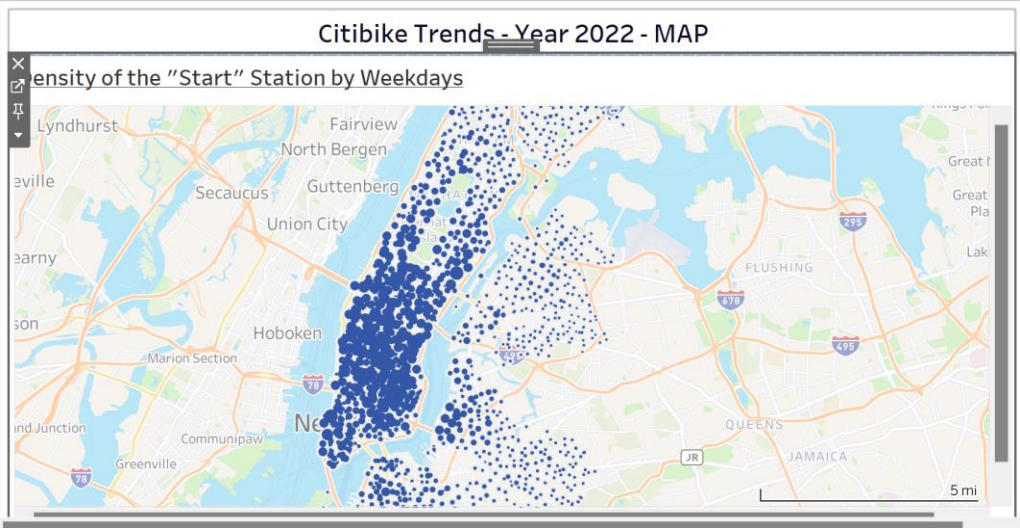
E. dashboard included worksheets



F. dashboard included worksheets



G. dashboard included worksheets



Explanation –

I have included below analysis on the above dashboard and created a story.
I have total of ~8-10 worksheets, 5 dashboards ; 1 story
Comprises of

- How many trips have been recorded in total during the chosen period?
- By what percentage has total ridership grown?
- How have the proportions of short-term customers and annual subscribers changed?
- What are the peak weekdays when bikes are used during the summer months?
- what are the top 10 stations in the city for starting a journey? Based on data, why do you hypothesize these are the top locations?
- what are the top 10 stations in the city for ending a journey? Based on data, why?
- Today, what are the bottom 10 stations in the city for starting a journey? Based on data, why?
- Today, what are the bottom 10 stations in the city for ending a journey? Based on data, why?
- How does the average trip duration change by the type of user? (This may be under "User Type" or "member_casual" depending on the period the data is from).

Tableau Public account link – SMU_Module18_MyFirstViz_CitiBike by Raj Agrawal
https://public.tableau.com/views/SMU_Module18_MyFirstViz_CitiBike_16937785255730/AStory-Citibike-RideAnalysis?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Github repository link including screen shots documentation
https://github.com/RajAgrawal99/SMU_DS_Bootcamp_March2023_RA.git
Folder: Module-18-Tableau-challange