

SQL Final

Emily Gomez

BigQuery: San Francisco Bike Share

1. Title Slide
2. Station Health
3. System Health
4. *Page Break*
5. Additional Data Exploration (section 3 of exam)

Station Health

Data Source: Bigquery-public-data.san_francisco_bikeshare

Stations Without Capacity*

10

Popular Trips

Starting Station	Ending Station	Trips ...
1. Harry Bridges Plaza (Ferry Buildi...	Embarcadero at Sansome	9150
2. San Francisco Caltrain 2 (330 To...	Townsend at 7th	8508
3. 2nd at Townsend	Harry Bridges Plaza (Ferry ...	7620

Most Popular Starting Station

Starting Station	Trips ...
San Francisco Caltrain (Town...	72,683

Most Popular Ending Station

Ending Station	Trips ...
San Francisco Caltrain (Town...	92014

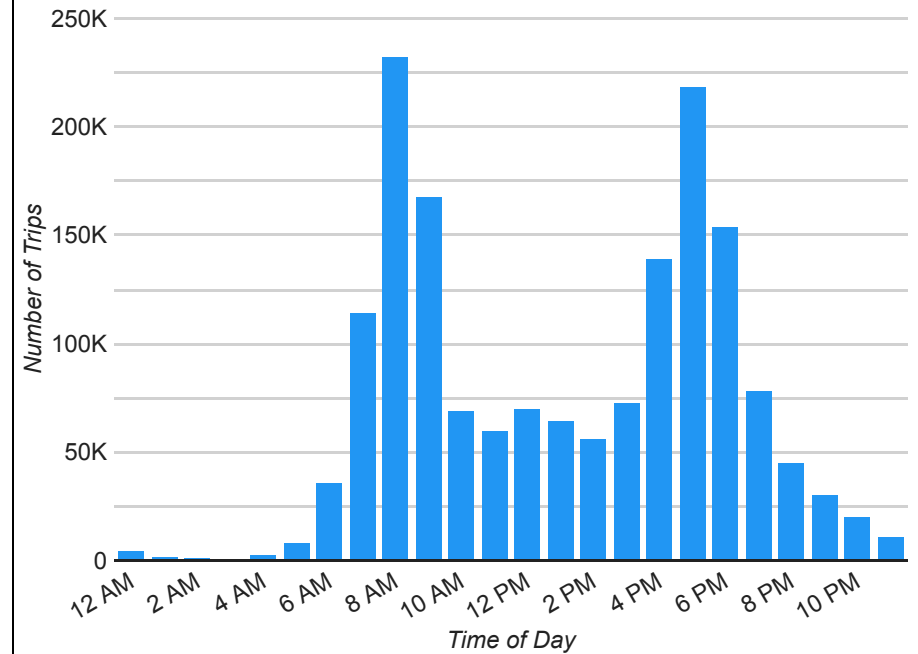
Station... ▾

Station Fill Rates

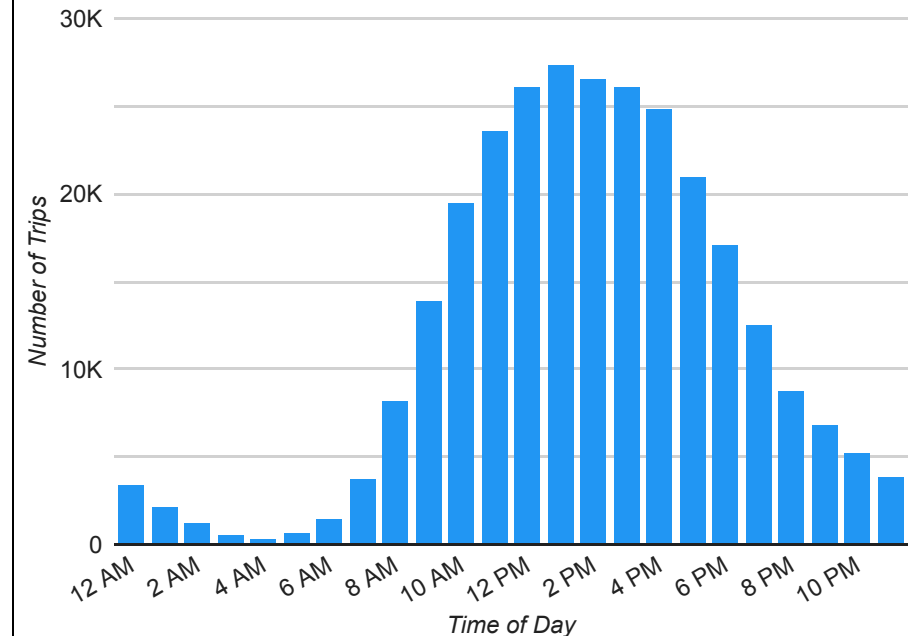
Station Name ▴	Fill Rate
10th Ave at E 15th St	0.6
10th Ave at Irving St	0.61
10th St at Empire St	0.3
10th St at Fallon St	0.35
10th St at Mission St	0.65
10th St at University Ave	0.58
11th St at Bryant St	0.7
11th St at Natoma St	0.42
1 - 100 / 444 < >	

*Excluding stations that are not installed.

Weekday Trips



Weekend Trips



System Health

Data Source: Bigquery-public-data.san_francisco_bikeshare

Trip Duration (minutes)

MIN	AVG	MAX	RANGE
1	12	171	170

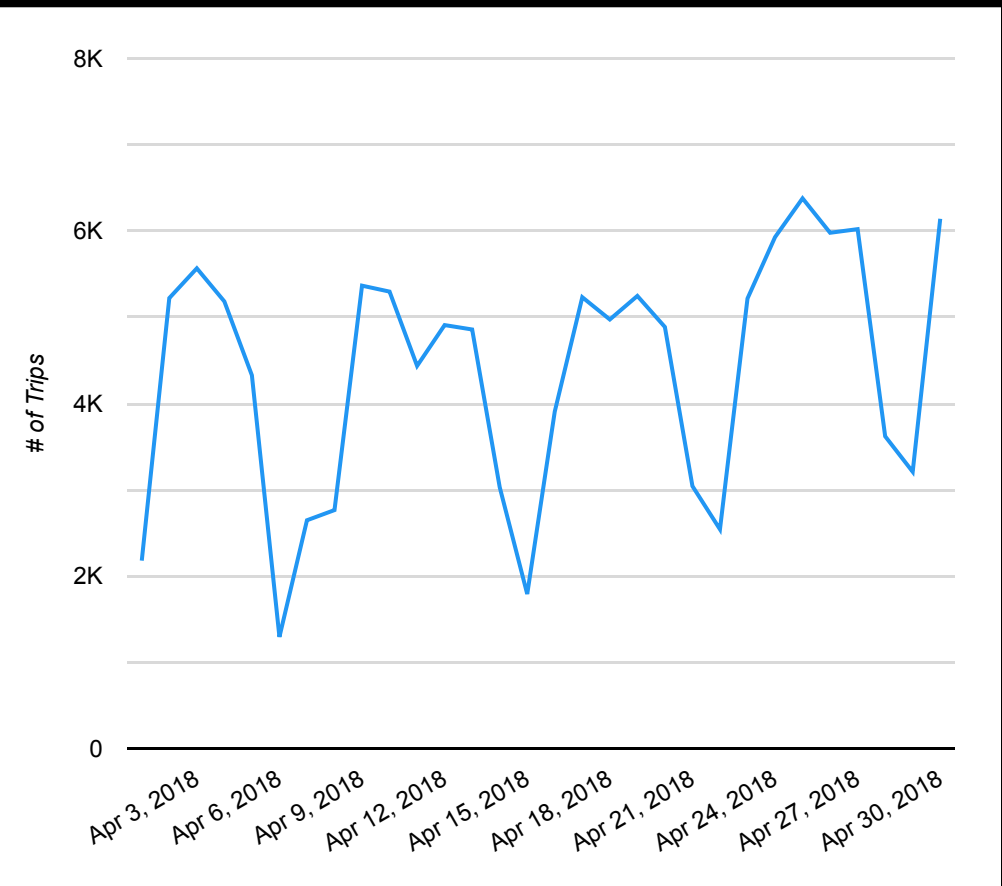
Daily Trips: Last 30 Logged Days

MIN	AVG	MAX
1294	4372	6377

Bike Usage (Hrs)

	Bike #	Total Hrs ▾	Avg. Hrs/Trip	# of Trips
1.	535	5,464.60	2.23	2,453
2.	466	1,300.48	0.54	2,393
3.	326	958.90	0.30	3,218
4.	613	943.53	0.32	2,934
5.	376	928.68	0.32	2,901
6.	441	915.55	0.29	3,168
7.	625	906.07	0.27	3,345
8.	526	894.25	0.29	3,060
9.	395	894.20	0.26	3,394
10.	524	892.40	0.29	3,045
11.	330	884.05	0.27	3,273
1 - 100 / 3952 < >				

Daily Trips: Last 30 Logged Days

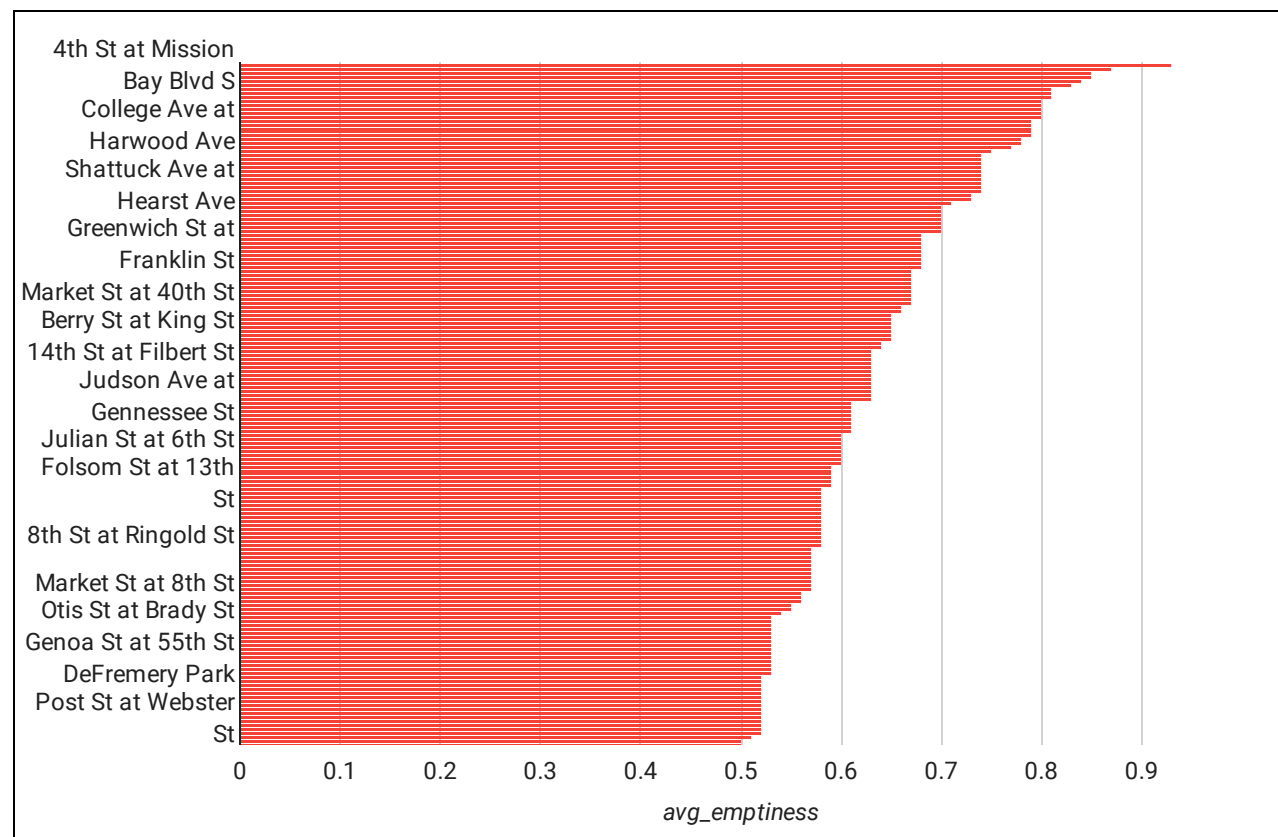
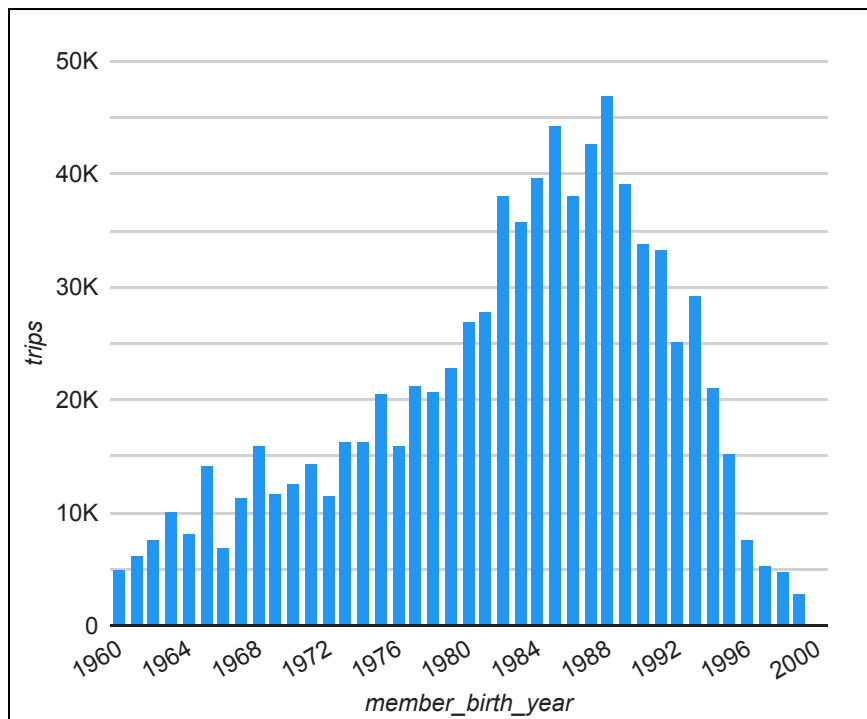


*'Trip Duration' and 'Bike Usage' exclude the top 1% of trip duration which were more than 3 days to account for return errors.

Page Break:

The following Page is additional data exploration for
Section 3 of the exam (a report).

Section 3 additional queries



Station	Region	
station	region	avg_emptiness
1. 4th St at Missi...	San Franc...	0.93
2. Cruise Termin...	San Franc...	0.87
3. Parker Ave at...	San Franc...	0.85
4. Montgomery ...	San Franc...	0.85
5. Almaden Blvd...	San Jose	0.84
6. Mechanics M...	San Franc...	0.83
7. Battery St at ...	null	0.81
8. Irwin St at 8th...	San Franc...	0.81
9. St. Joseph's ...	null	0.81
10. Vine St at Sh...	Berkeley	0.8
11. Bestor Art Park	San Jose	0.8
1 - 100 / 432 < >		

Region				
region	hour	bike_trip	bikes_available	trips
1. Emeryville	5 AM	7.25	29	4
2. Emeryville	7 AM	7.66	1838	240
3. Emeryville	6 AM	7.67	437	57
4. Emeryville	9 AM	8.33	2590	311
5. Emeryville	8 AM	8.36	3513	420
6. Emeryville	10 AM	9.11	1841	202
7. Oakland	7 AM	9.14	58711	6421
8. Emeryville	12 PM	9.34	3819	409
9. Oakland	9 AM	9.34	67031	7176
10. Oakland	8 AM	9.46	105831	11186
11. San Jose	5 AM	9.58	1188	124
1 - 100 / 120 < >				