BigQuery

BigQuery, a data warehouse on Google Cloud that I use to query, filter large datasets, aggregate results, and perform complex operations. In this mini project, I will upload public data to my console; and write some simple SQL queries using SELECT, FROM, and WHERE.

- SELECT is the section of a query that indicates what data you want SQL to return to you
- FROM is the section of a query that indicates which table the desired data comes from.
- WHERE is the section of a query that indicates any filters you'd like to apply to your <u>dataset</u>

BigQuery:

Used dataset: London Bicycle Hires dataset from the Greater London Authority - london bicycle. -> london_bicycles data, table: cycle_hire https://console.cloud.google.com/bigquery?sq=993565623922:99242c2cba374cdeaa9d 386bf205a438

```
SELECT
  end_station_name
FROM `bigquery-public-data.london_bicycles.cycle_hire`
LIMIT
 1000;
SELECT
  COUNT(*) AS num_of_trips
FROM
  `bigquery-public-data.london_bicycles.cycle_hire`
WHERE
  duration >= 12000;
SELECT
  end_station_name
FROM
  `bigguery-public-data.london_bicycles.cycle_hire`
WHERE
  rental_id=57635395;
#1. From which station names has bike_id 1710 started?
SELECT
  DISTINCT start_station_name
FROM
  `bigquery-public-data.london_bicycles.cycle_hire`
WHERE
  bike_id = 1710;
#2. How many bike_ids have ended at "Moor Street, Soho"?
SELECT
  COUNT (DISTINCT bike_id) AS num_of_bikes
FROM
  `bigquery-public-data.london_bicycles.cycle_hire`
WHERE
end_station_name = 'Moor Street, Soho';
#3. What is the station_id for "Canton Street, Poplar"?
SELECT
  DISTINCT start_station_id
FROM
  `bigquery-public-data.london_bicycles.cycle_hire`
```

```
WHERE
start_station_name = 'Canton Street, Poplar';
#4. What is the name of the station whose ID is 111?
SELECT
 DISTINCT start_station_name
FROM
  `bigquery-public-data.london_bicycles.cycle_hire`
WHERE
start_station_id = 111;
#5. How many distinct bike_ids had trip durations greater than 2400 seconds (or 40
minutes)?
SELECT
  COUNT(DISTINCT bike_id) AS num_of_bike_trips
  `bigquery-public-data.london_bicycles.cycle_hire`
WHERE
  duration > 2400;
```