Intro to BigQuery solutions

These are the solutions to the Intro to BigQuery activity. You can refer to this document if you are troubleshooting your own queries. You can also copy and paste these solutions to test them in your own BigQuery console.

1. From which station names has bike_id 1710 started?

```sql
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"?

```sql
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"?

```sql
SELECT
    DISTINCT start_station_id        -- can also use end_station_id
FROM
    `bigquery-public-data.london_bicycles.cycle_hire`
WHERE
    start_station_name = 'Canton Street, Poplar'        -- can also use end_station_name
```

4. What is the name of the station whose ID is 111?

```sql
SELECT
    DISTINCT start_station_name -- can also use end_station_name
```

```
FROM
    `bigquery-public-data.london_bicycles.cycle_hire`
WHERE
    start_station_id = 111 --can also use end_station_id
```

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
FROM
    `bigquery-public-data.london_bicycles.cycle_hire`
WHERE
    duration > 2400 --schema indicates that trip duration is recorded in seconds
```