Quiz 3

Write queries to figure out the following questions. All the questions deal with the dataset `bigquery-public-data.austin_bikeshare.bikeshare_trips`.

1.

How many unique rides involved the bike with a bikeid of 446.

2.

For the bike with bikeid='446', what was the time of its longest ride in minutes?

3.

How many bike rides started at the station Zilker Park West.

4.

How many bike rides started at "Capital Metro HQ - East 5th at Broadway" and ended at "ACC - West & 12th Street".

5.

How many bike rides started and ended at the same location? HINT: You can use a where clause and set the start location = end location.

6.

How many rides had a trip duration of exactly one hour or less?

7.

How many bike rides had a trip duration between 1 and 2 hours (including both 1 and 2 hour trips)?

8.

How many bike rides were strictly greater than 3 hours?

9.

Consider the following two types of bike rides:

- Started at "ACC - West & 12th Street" and ended at "Zilker Park West"
- Started at "Nueces @ 3rd" and ended at "Toomey Rd @ South Lamar"

Of all these types of bike rides, what was the shortest trip duration in minutes?

10.

The subscriber_type column is a string type column. You can see all the different distinct strings in this column from this query:

```
SELECT

  DISTINCT subscriber_type

FROM

  `bigquery-public-data.austin_bikeshare.bikeshare_trips`
```

How many of these distinct strings contain the pattern "B-cycle".

You could count them manually but that is not a scalable solution.

You can answer this question using a LIKE statement.

11.

Consider all the bike rides with a subscriber_type that starts with the letter "W". How many bike rides is this?

12.

How many bike rides meet the following conditions all together:

- subscriber_type column contains the pattern string "Member"
- start_station_id is 3792
- end_station_name is "23rd & Rio Grande"
- The duration is between 128 and 539 minutes (but not including 128 and 539).