

Module Review

1. Which of the below are the core services that make up BigQuery? (choose the correct 2)

☒ Query service

✓ Correct

☒ Storage service

✓ Correct

☐ Data Optimization service

☐ Machine Learning service

2. You want to know how many rows are in the BigQuery Public Dataset on San Francisco Bike Shares. What could you do?

☒ In the BigQuery Web UI, find the table and click the details tab and view the rows.

✓ Correct

☐ # Run the below query:

```
SELECT  
  
SUM(*) AS total_trips  
  
FROM  
  
`bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
```

☒ # Run the below query:

```
SELECT  
  
COUNT(*) AS total_trips  
  
FROM  
  
`bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
```

3. True or False: You can query a Google Spreadsheet directly from BigQuery without loading it in first.

- ☒ True
- ☐ False

✓ **Correct**

Correct - this is a federated query

4. You have a taxi service data schema that has three columns:

- ride_id
- ride_timestamp
- ride_status

You want to use BigQuery for reporting but you don't want to split your table into multiple sub-tables. What native features of BigQuery data types should you explore? (check all that apply)

- ☒ Consider making ride_timestamp an **ARRAY** of timestamp values so each ride_id row in your table could still be unique and easy to report off of.

✓ **Correct**

- ☒ Consider adding lat / long geographic data points as new columns and using **GIS Functions** to quickly plot the distances your fleet has travelled.

✓ **Correct**

- ☐ Consider renaming the ride_id column to 'label' so you can use it in a **BigQuery ML model** to predict the ride_id of the next ride.

5. Complete the following

In ML, a row of data is called a(n) _____ and a column of data is called a(n) _____. We mark one or more columns as _____ which we know for historical data and are trying to predict for future data.

- ☐ 1. labels
2. instance or observation
3. feature
- ☐ 1. instance or observation
2. labels
3. feature
- ☒ 1. instance or observation
2. feature
3. labels

 Correct