In step 4 of the lab, you spun up a VM running Cassandra. What is your deployment name?
 The deployment name is cassandra-1.

2. In what GCP zone is it running?

us-central1-c

3. How many CPUs in your VM?

2 vCPUs

4. How much memory did it allocate to your VM?

4GB

5. What is the IP address of your VM?

10.128.0.0

6. What command do you enter to connect to the Cassandra shell? Username? Password?

The username is Cassandra and the password is vrEdxDXQLn2B.

```
cqlsh -u cassandra -p vrEdxDXQLn2B
```

7. What is the name of the keyspace you created?

space_flights

8. What is the name of the table you created?

space_flights.catalog

9. What is the replication factor for the keyspace you created?

The replication factor is 1.

'replication factor': '1'

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10. Run the query: "Select * from space_flights.catalog;" again

```
### Paper | Journey_id | active | end | start | summary |

| marcury_atlas* | e9de9600-9685-11a9-8080-8080808080 | False | 1962-05-24 18:41:00.000000+0000 | 1962-05-24 13:45:00.000000+0000 | First manual retrofire. Earth photography and study of liquids in weightless conditions.
| marcury_atlas* | e9de9600-9685-11a9-8080-8080808080 | False | 1961-07-21 12:35:00.000000+0000 | 1961-07-21 12:20:00.000000+0000 | First manual retrofire. Earth photography and study of liquids in weightless conditions.
| marcury_atlas* | e8de9600-9685-11a9-8080-8080808080 | False | 1961-07-21 12:35:00.000000+0000 | 1961-07-21 12:20:00.000000+0000 | First manual retrofire. Earth photography and study of liquids in weightless conditions.
| marcury_atlas* | e9de9600-9685-11a9-808080808080 | False | 1962-02-20 20:42:00.000000+0000 | 1962-02-20 15:47:00.000000+0000 | First manual retrofire. Earth photography and study of liquids in weightless conditions.
| marcury_atlas* | e9de9600-9685-11a9-808080808080 | False | 1962-02-20 20:42:00.000000+0000 | 1962-02-20 15:47:00.00000+0000 | First manual retrofire. Earth photography and study of liquids in weightless conditions.
| marcury_atlas* | e9de9600-9685-11a9-808080808080 | False | 1962-02-20 20:42:00.00000+0000 | 1962-02-20 15:47:00.00000+0000 | First manual retrofire. Earth photography and study of liquids in weightless conditions.
| marcury_atlas* | e9de9600-9685-11a9-808080808080 | False | 1962-02-20 20:42:00.00000+0000 | 1962-02-10:47:00.00000+0000 | First manual retrofire. Earth photography and study of liquids in manual retrofire. Earth photography and study of liquids in manual retrofire. Earth photography and study of liquids in manual retrofire. Earth photography and study of liquids in manual retrofire. Earth photography and study of liquids in manual retrofire. Earth photography and study of liquids in manual retrofire. Earth photography and study of liquids in manual retrofire. Earth photography and study of liquids in manual retrofire. Earth photography and study of liquids in man
```

11. Modify the query: "select count(*) from space_flights.catalog;" How
 many rows are in the table?

9 rows.

```
cassandra@cqlsh> select count(*) from space_flights.catalog;

count
-----
9

(1 rows)

Warnings :
Aggregation query used without partition key

cassandra@cqlsh>
```

12. Run the query: "select spacecraft name, journey id from

```
space flights.catalog"
```

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```
cassandra@cqlsh> select spacecraft_name, journey_id from
... space_flights.catalog
...;

spacecraft_name | journey_id

mercury-atlas7 | e9d69600-9685-11a9-8080-808080808080
mercury-redstone4 | 2d2f1800-a53c-11a8-8080-808080808080
mercury-atlas6 | 8c7b3200-4d82-11a9-8080-808080808080
mercury-atlas8 | 977b6200-fe3b-11a9-8080-808080808080
vostok3 | ff31b400-d46d-11a9-8080-808080808080
mercury-redstone3 | 2396fc00-668cd-11a8-8080-808080808080
vostok1 | 805b1a00-5673-11a8-8080-808080808080
vostok4 | 403fcc00-d533-11a9-8080-80808080808080
(9 rows)
```

13. Modify your query to select all the rows where the spacecraft_name is like "%mercury%". What happens? (Not all SQL commands will work in CQL).

This command doesn't work in CQL. We get an error.

```
cassandra@cqlsh> select spacecraft_name, journey_id from space_flights.catalog where spacecraft_name like %mercury%;
Invalid syntax at line 1, char 91
select spacecraft_name, journey_id from space_flights.catalog where spacecraft_name like %mercury%;
```

14. Modify your query to try to sort the output using a "ORDER BY". What happens?

We get an error.

InvalidRequest: Error from server: code=2200 [Invalid query] message="ORDER BY is only supported when the partition key is restricted by an EQ or an IN."

cassandra@cqlsh> select spacecraft_name, journey_id from space_flights.catalog ORDER BY spacecraft_name;
InvalidRequest: Error from server: code=2200 [Invalid query] message="ORDER BY is only supported when the partition key is restricted by an EO or an IN."