

Homework 7

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

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?

4 GB Memory

5. What is the IP address of your VM?

127.0.0.1:9042

6. What command do you enter to connect to the Cassandra shell? What was your username and password?

cqlsh -u cassandra -p M1TPAEBBBHtQ

Username: cassandra

Password: M1TPAEBBBHtQ

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? In the instructions it told you to exit the cqlsh. If you have time remaining (out of your 30 minutes lab) go back to the SSH dropdown, open a new cqlsh terminal, log in again.

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

```
cassandra@cqlsh> Select * from space_flights.catalog;
```

spacecraft_name	journey_id	active	end	start
	summary			
mercury-atlas7	e9d69600-9685-11a9-8080-808080808080	False	1962-05-24 18:41:00.000000+0000	1962-05-24 13:45:00.000000+0000
mercury-redstone4	2d2f1800-a53c-11a8-8080-808080808080	False	1961-07-21 12:35:00.000000+0000	1961-07-21 2:20:00.000000+0000
mercury-atlas6	8c7b3200-4d82-11a9-8080-808080808080	False	1962-02-20 20:42:00.000000+0000	1962-02-20 5:47:00.000000+0000
mercury-atlas8	977b6200-fe3b-11a9-8080-808080808080	False	1962-10-03 22:28:00.000000+0000	1962-10-03 3:15:00.000000+0000
vostok3	ff31b400-d46d-11a9-8080-808080808080	False	1962-08-15 06:52:00.000000+0000	1962-08-11 8:30:00.000000+0000
mercury-redstone3	2396fc00-68cd-11a8-8080-808080808080	False	1961-05-05 14:49:00.000000+0000	1961-05-05 4:34:00.000000+0000
vostok2	5c2ac800-b191-11a8-8080-808080808080	False	1961-08-07 05:01:00.000000+0000	1961-08-06 5:00:00.000000+0000
vostok1	805b1a00-5673-11a8-8080-808080808080	False	1961-04-12 07:55:00.000000+0000	1961-04-12 6:07:00.000000+0000
vostok4	403fcc00-d533-11a9-8080-808080808080	False	1962-08-15 06:59:00.000000+0000	1962-08-12 8:02:00.000000+0000

(9 rows)

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

9 rows

12. Run the query: "select spacecraft_name, journey_id from space_flights.catalog"

```
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	2396fc00-68cd-11a8-8080-808080808080
vostok2	5c2ac800-b191-11a8-8080-808080808080
vostok1	805b1a00-5673-11a8-8080-808080808080
vostok4	403fcc00-d533-11a9-8080-808080808080

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). See https://docs.datastax.com/en/archived/cql/3.3/cql/cql_reference/cqlSelect.html

```
select * from space_flights.catalog where spacecraft_name like '%mercury%';
```

```
InvalidRequest: Error from server: code=2200 [Invalid query] message="LIKE restriction is only supported on properly indexed columns. spacecraft_name LIKE '%mercury%' is not valid."
```

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

```
Select * from space_flights.catalog order by desc;
```

```
SyntaxException: line 1:45 no viable alternative at input 'desc' (...from space_flights.catalog order by [desc]...)
```