## 02\_Partitions

**READY** 



```
%sh
STATUS="$(service cassandra status)"

if [[ $STATUS == *"is running"* ]]; then
    echo "Cassandra is running"
else
    echo " Cassandra not running .... Starting"
    service cassandra restart > /dev/null 2>&1 &
    echo " Started"

fi
```

## **Exercise 2 – Partitions**

**READY** 

In this exercise, you will:

- Experiment with partitions
- 1. NOTE: Be sure Apache Cassandra<sup>™</sup> is running before doing these exercises. You ca $R^{\mathsf{EADY}}$  check by

running nodetool on the command line:

%sh READY nodetool status

2. Switch to the YooToob keyspace via the USE command:

%cassandra READY

3. Execute the following command to view the metadata for the videos table you created earlier.

READY

• What is the partition key?

**READY** 

## **02.** Raintitions ons are in this table?

READY

4. Execute the following query to view the partitioner token value for each video id. READY

SELECT token(video\_id), video\_id
FROM videos;

READY

5. Use the following command to inspect the file named /home/labwork/data-files/viRfe\(\text{S}^{\text{Y}}\) by-tag.csv:

%sh
cat /home/labwork/data-files/videos-by-tag.csv

**READY** 

6. Switch to the YooToob keyspace.

READY

READY

7. Your mission, should you choose to accept it, is to write a CREATE TABLE statement that will store this data partitioned by tags. With this given data set, there should be two partitions, one for each tag. Call your table videos\_by\_tag.

**READY** 

8. Execute the following command to insert the videos-by-tag.csv data.

**FINISHED** 

Took 0 sec. Last updated by anonymous at July 13 2020, 2:30:33 PM. (outdated)

```
INSERT INTO videos_by_tag(tag, video_id, added_date, title)
VALUES ('cassandra', 1645ea59-14bd-11e5-a993-8138354b7e31, '2014-01-29', 'Cassandra History');
```

INSERT INTO videos\_by\_tag(tag, video\_id, added\_date, title)

```
02 Partitions - Zeppelin
   VALUES ('cassandra',245e8024-14bd-11e5-9743-8238356b7e32, '2012-04-03', 'Cassandra & SSDs');
   INSERT INTO videos_by_tag(tag, video_id, added_date, title)
VALUES ('cassandra',3452f7de-14bd-11e5-855e-8738355b7e3a, '2013-03-17', 'Cassandra Intro');
02NSFRANTINGUStag(tag, video_id, added_date, title)
    VALUES ('fenago',4845ed97-14bd-11e5-8a40-8338255b7e33, '2013-10-16', 'Apache Cassandra');
   INSERT INTO videos_by_tag(tag, video_id, added_date, title)
   VALUES ('fenago',5645f8bd-14bd-11e5-af1a-8638355b8e3a, '2013-04-16', 'What is Apache Cassandra?'
                                                                                                  READY
     9. Verify CQL imported your data correctly by writing a SELECT * command.
  READY
                                                                                                  READY
   10. Write a SELECT statement to retrieve all rows tagged with cassandra.
  READY
                                                                                                  READY
   11. Now, find all videos tagged with fenago (similar to the previous query).
  READY
                                                                                                  READY
   12. Finally, write a query to retrieve the video having a title of Cassandra Intro.
  READY
                                                                                                  READY
  NOTE: Notice your query errors out. Apache Cassandra<sup>™</sup> only allows queries on the
```

partition key (and clustering columns shown in the next section). Since title is not the partition key, Apache Cassandra<sup>™</sup> fails the query. If Apache Cassandra<sup>™</sup> allowed querying on non-partition key columns, Apache Cassandra™ would have to scan all partitions on all nodes to produce a result set (which goes against the reason you would use Apache Cassandra™ in the first place).

**READY** 

READY

## 02\_Partitions