Máster de Formación Permanente en BIG DATA e Inteligencia Artificial

UNIVERSIDAD DE MÁLAGA

CASSANDRA LESSON 6 EXERCISES

1. Insert the following data into the table USER

   Make a note of the execution time for the three insert operations. You'll be comparing them with some other inserts in just a few steps.

   INSERT INTO user (id, name, email) VALUES (12345678-abcd-abcd-abcd-abcd12345678, 'John', 'john@datastax.com');
   INSERT INTO user (id, name, email) VALUES (87654321-abcd-abcd-abcd-abcd87654321, 'Mary', 'mary@datastax.com');
   INSERT INTO user (id, name, email) VALUES (77777777-beef-beef-beef-beef77777777, 'Joe', 'joe@datastax.com');

2. Insert the following data into table USER (**Modify the musicdb keyspace to set replication_factor to 1**)

   INSERT INTO user (id, name, email) VALUES (00000000-aaaa-aaaa-aaaa-aaaa00000000, 'Ron', 'ron@datastax.com') IF NOT EXISTS;

   INSERT INTO user (id, name, email) VALUES (12345678-abcd-abcd-abcd-abcd12345678, 'Steve', 'steve@datastax.com') IF NOT EXISTS;

   Do these two INSERTs execute successfully? What is the value of the [applied] column?. How long did these INSERT operations take to execute compared to the earlier ones?

3. Update the table PERFORMER table to modify the founded year of 'The Beatles' to 1960.
4. Update the table PERFORMER table to modify the name of 'The Beatles' to 'Beatles'. Why did this update fail?
5. Update the table PERFORMER table to modify the founded year of 'The Beatles' to 1957, but only if its type is equal to 'band'. What is the value of the returned [applied] column for this update?
6. Update the table PERFORMER table to modify the founded year of 'The Beatles' to 1960, but only if its type is equal to 'artist'. Why did this update fail? What is the value of the returned [applied] column for this update?
7. Update the table RATINGS_BY_TRACK to increase by one the value of num_ratings and by 5 the value of sum_ratings of the track 'Yellow Submarine', album 'Revolver', year 1966.
8. Update the table RATINGS_BY_TRACK to increase by one the value of num_ratings and by 4 the value of sum_ratings of the track 'Yellow Submarine', album 'Revolver', year 1966.
9. Update the table USER to add 'Rock' and 'Classic' to the preferences of the user 12345678-abcd-abcd-abcd-abcd12345678
10. Update the table USER to add 'Rock' and 'Jazz' to the preferences of the user 12345678-abcd-abcd-abcd-abcd12345678. Notice how the set values are ordered. Duplicate values have been eliminated.
11. Insert the following data into the table TRACK_RATINGS_BY_USER:

INSERT INTO track_ratings_by_user (user, activity, rating, song) VALUES
(12345678-abcd-abcd-abcd-abcd12345678, 1234abcd-1234-1134-1234-abcd1234abcd, 8,
{album_title: 'What A Wonderful World', album_year: 1968, track_title: 'Boogie After Midnight'});

12. Update the table TRACK_RATINGS_BY_USER (using the update sentence and modifying only the track title field) to modify the track title rating by the user 12345678-abcd-abcd-abcd-abcd12345678 at time 1234abcd-1234-1134-1234-abcd1234abcd to Mousetrap.

    Although the intention was just to update the track title, what happened to the album title and the album year?

13. Update the table TRACK_RATINGS_BY_USER to modify the song rating by the user 12345678-abcd-abcd-abcd-abcd12345678 at time 1234abcd-1234-1134-1234-abcd1234abcd to track Mousetrap, album What A Wonderful World, year 1968.