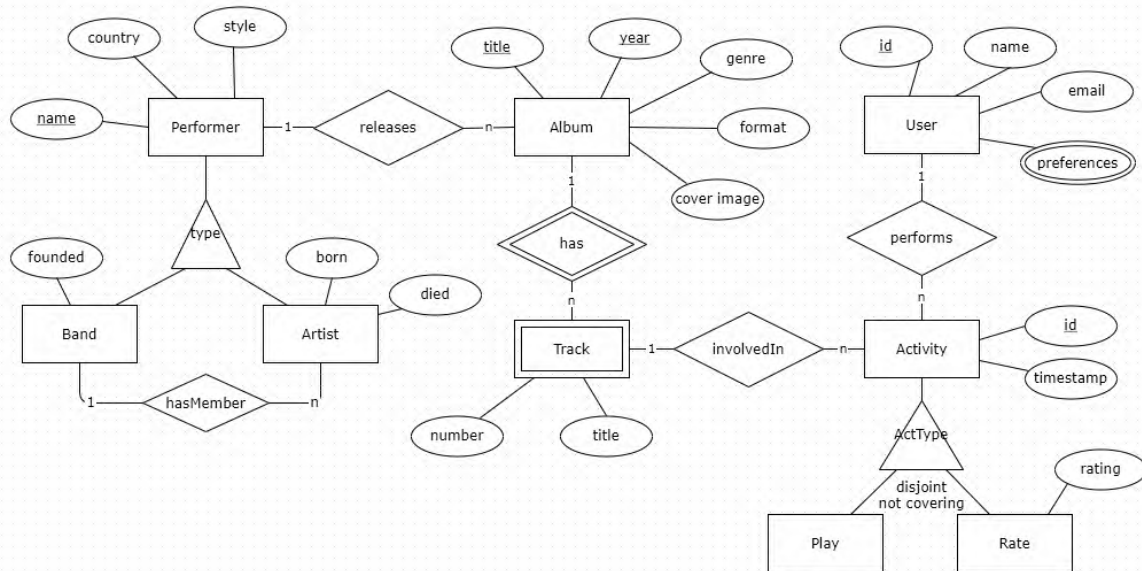


CASSANDRA LESSON 5 EXERCISES

1. Create the musicdb database



- Create the musicdb keyspace ('class': 'SimpleStrategy', 'replication_factor' : 3)
- Create tables from musicdb.cql
- Populate tables from csv files (using DataGrip)
 - o Populate table album from cqlsh: COPY album (title, year, performer, genre, tracks) FROM '/var/lib/cassandra/album.csv' WITH HEADER = 'true';
- Test the following queries:
 - o SELECT * FROM tracks_by_album WHERE album_title = 'Revolver' AND year = 1966;
 - o SELECT * FROM album WHERE title = 'Revolver' AND year = 1966;

2. Create additional tables with UUID, TIMEUUID and COUNTER columns from musicdb2.cql
3. Create a user-define type called *track*: album_title VARCHAR, album_year INT, track_title VARCHAR
4. Drop the columns album_title, album_year and track_title for the table track_ratings_by_user.
5. Add a new column called song to the track_ratings_by_user with the user_define type *track* (**use the frozen keyword**)
6. Add two new columns to table user: email VARCHAR and preferences SET<VARCHAR>
7. Create a secondary index on the preferences column in the table user.
8. Try the following query and get the execution time.

SELECT name

FROM performer

WHERE country = 'Iceland' AND style = 'Rock'

ALLOW FILTERING;

9. Create two secondary indexes for the table performer on the country and style columns.
10. Try the query in step 8 again and compare execution time with 8.