L1_Exercise_2_Creating_a_Table_with_Apache_Cassandra

November 25, 2019

1 Lesson 1 Exercise 2: Creating a Table with Apache Cassandra

Walk through the basics of Apache Cassandra. Complete the following tasks:

Create a table in Apache Cassandra,

Insert rows of data,

Run a simple SQL query to validate the information. ##### denotes where the code needs to be completed.

Note: Do not click the blue Preview button in the lower taskbar

Import Apache Cassandra python package

```
In [1]: import cassandra
```

1.0.1 Create a connection to the database

1.0.2 TO-DO: Create a keyspace to do the work in

1.0.3 TO-DO: Connect to the Keyspace

1.0.4 Create a Song Library that contains a list of songs, including the song name, artist name, year, album it was from, and if it was a single.

```
song_title artist_name year album_name single
```

1.0.5 TO-DO: You need to create a table to be able to run the following query:

1.0.6 TO-DO: Insert the following two rows in your table

```
First Row: "Across The Universe", "The Beatles", "1970", "False", "Let It Be"

Second Row: "The Beatles", "Think For Yourself", "False", "1965", "Rubber Soul"

In [9]: ## Add in query and then run the insert statement

query = "INSERT INTO udacity.songs ( song_title, artist_name, year, single, album_name)"

query = query + " VALUES (%s, %s, %s, %s, %s) IF NOT EXISTS "

try:

session.execute(query, ("Across The Universe", "The Beatles", 1970, False, "Let It E except Exception as e:

print(e)

try:

session.execute(query, ("The Beatles", "Think For Yourself", 1965, False, "Rubber So except Exception as e:

print(e)
```

1.0.7 TO-DO: Validate your data was inserted into the table.

```
rows = session.execute(query)
except Exception as e:
     print(e)

for row in rows:
     print (row.year, row.album_name, row.artist_name)

1965 Rubber Soul Think For Yourself
1970 Let It Be The Beatles
```

1.0.8 TO-DO: Validate the Data Model with the original query.

1.0.9 And Finally close the session and cluster connection