# 1.2.Creating\_a\_Table\_with\_Apache\_Cassandra

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# 1 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 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 [25]: ## Add in query and then run the insert statement

query = "INSERT INTO Songs (year, song_title, artist_name, album_name, single) "

query = query + " VALUES (%s, %s, %s, %s, %s)"

try:

session.execute(query, (1970, "Across The Universe", "The Beatles", "Let It Be", Fexcept Exception as e:

print(e)

try:

session.execute(query, (1965, "Think For Yourself", "The Beatles", "Rubber Soul", Fexcept Exception as e:
```

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

print(e)

```
In [26]: ## Complete and then run the select statement to validate the data was inserted into the query = 'SELECT * FROM Songs'
```

```
try:
             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 The Beatles
1970 Let It Be The Beatles
1.0.8 TO-DO: Validate the Data Model with the original query.
select * from songs WHERE YEAR=1970 AND artist_name="The Beatles"
In [30]: ##TO-DO: Complete the select statement to run the query
         query = "select * from songs WHERE YEAR=1970 AND artist_name='The Beatles'"
         try:
             rows = session.execute(query)
         except Exception as e:
             print(e)
         for row in rows:
             print (row.year, row.album_name, row.artist_name)
```

# 1.0.9 And Finally close the session and cluster connection

1970 Let It Be The Beatles