## **Final Project**

## **Tables**

```
Logging initialized using configuration in jar:file:/home/acadgild/install/hive.apache-hive-2.3.2-bin/lib/hive-common-2.3.2.jar!/hive-log4j2.properties Async: rue
Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
hive> show databases;
OK
default
project
Time taken: 8.703 seconds, Fetched: 2 row(s)
hive> use project;
OK
Time taken: 0.064 seconds
hive> show tables;
OK
song_artist_map
station_geo_map
subscribed_users
top_10_stations
users_artists
Time taken: 0.086 seconds, Fetched: 5 row(s)
hive>
```

## **Problem Statement:**

Data Analysis: Determine top 10 station\_id(s) where maximum number of songs where placed, which were liked by unique users.

```
SELECT

COUNT (DISTINC song.if) AS total_distinct.song.played,
COUNT (DISTINC user.ig) AS distinct_user_count

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COUNT (DISTINC user.ig) AS distinct_user_count

COUNT (DISTINC user_count)

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```

Determine total duration of songs played by each type of user, where type of user can be 'subscribed' or 'unsubscribed'. An unsubscribed user is the one whose record is either not present in Subscribed\_users lookup table or has subscription\_end\_date earlier than the timestamp of the song played by him.

```
Note: Total Content Table Loss , Learning Content Cont
```

Determine top 10 connected artists. Connected artists are those whose songs are most listened by the unique users who follow them.

```
The record of the records of the records of the record of the record (CSTINCT unacure, Id) AS user_count |

- CONTROLLER (Unacure, Id) AS user_count |

-
```

Determine top 10 songs that have generated the maximum revenue. Royalty applies to a song only if it was liked or was completed successfully or both.

```
Index particular of the specific of the Section (20,0) -CAST(start_ts AS DECIMAL(20,0))) AS duration

> SEM(ABS(CAST(end ts AS DECIMAL(20,0)) -CAST(start_ts AS DECIMAL(20,0))) AS duration

> ROW semiched_data

> Clinit 10 song_end_type=0)

> group by song_in DECC

| LINIT 10 song_end_type=0)

> group by song_in DECC
| LINIT 10 song_end_type=0)

> clinit 10 song_end_type=0

| LINIT 10 s
```

Determine top 10 unsubscribed users wo listened to the songs for the longest duration.

Unresolved problem with query execution. I believe the problem is with the heap size, but was unable to get it resolved.

```
Three SEACH | Section (1.2) |
```