REPORT 5

Introduction to the database: NUMusic is an application used for music management. We can use the NUMusic database to manage the users who are using the app, navigate songs, subscribe to an available subscription plan to get access to perks like downloading songs, managing playlists,

managing the payment details to get the subscription. Students, staff members and other employees associated can use this application.

Objective: To provide information on the playlists created by users within the music streaming service including the number of songs on each playlist, no. of playlist for each user and most popular playlist for each user.

Query used:

```
SELECT
u.user_id,
u.user_name,
COUNT(DISTINCT p.playlist_id) AS number_of_playlists,
COUNT(sp.song_id) AS number_of_songs,
(
SELECT
playlist_name
FROM
(
SELECT
p2.playlist_id,
p2.playlist_name,
```

```
COUNT(sp2.song id) AS num songs
FROM
     Playlist p2
     LEFT JOIN Songs Playlist sp2 ON p2.playlist id = sp2.playlist id
WHERE
     p2.user id = u.user id
GROUP BY
p2.playlist id,
p2.playlist name
    ORDER BY
     COUNT(sp2.song id) DESC,
p2.playlist name ASC
  WHERE
   ROWNUM = 1
) AS most_popular_playlist
FROM
User Details u
JOIN Playlist p ON u.user id = p.user id
 LEFT JOIN Songs_Playlist sp ON p.playlist_id = sp.playlist_id
GROUP BY
 u.user id,
 u.user name
ORDER BY
COUNT(sp.song id) DESC,
number of playlists DESC,
u.user name ASC;
```

Result screen shots:

```
23
               p2.playlist_name
24
             ORDER BY
25
               COUNT(sp2.song_id) DESC,
26
               p2.playlist_name ASC
27
        )
WHERE
28
29
          ROWNUM = 1
30
      ) AS most_popular_playlist
31
    FROM
32
      User_Details u
      JOIN Playlist p ON u.user_id = p.user_id

LEFT JOIN Songs_Playlist sp ON p.playlist_id = sp.playlist_id
33
34
35
    GROUP BY
36
      u.user_id,
   u.user_name
ORDER BY
37
38
      COUNT(sp.song_id) DESC,
39
      number_of_playlists DESC,
u.user_name ASC;
40
41
42
43
Script Output × Query Result ×
🏲 🖺 🙀 🕦 SQL | All Rows Fetched: 2 in 0.083 seconds
     ♦ USER_ID ♦ USER_NAME ♦ NUMBER_OF_PLAYLISTS ♦ NUMBER_OF_SONGS ♦ MOST_POPULAR_PLAYLIST
  1
            101 Sampada
                                                          2
                                                                                 3 Gym Music
  2
            102 Shubhda
                                                          1
                                                                                 2 Calming music
```