REPORT 3

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 show a list of all artists and the number of albums and songs they have in the database along with album names and song names.

Query used:

SELECT A.artist_name, COUNT(DISTINCT AA.album_id) AS num_albums, COUNT(DISTINCT S.song id) AS num_songs,

LISTAGG(DISTINCT NVL(AL.album_name, 'No Album'), ', ') WITHIN GROUP (ORDER BY AL.album_name) AS album_names,

LISTAGG(DISTINCT NVL(S.song_name,'No Songs'), ', ') WITHIN GROUP (ORDER BY S.song_name) AS song_names FROM Artist A

LEFT JOIN Album_Artist AA ON A.artist_id = AA.artist_id LEFT JOIN Album AL ON AA.album_id = AL.album_id LEFT JOIN Songs_Artist SA ON A.artist_id = SA.artist_id LEFT JOIN Songs S ON SA.song_id = S.song_id GROUP BY A.artist name;

Result screen shots:

