# **Project name**: Spotify

# **Assigned TA:** DR. Radwa Moustafa

# **Team ID:** 12

# **Department:** Bioinformatics

# **Team members:**

## (Section 5) فاطمة عمرو بيومي

## (Section 5) كرما ياسر إسماعيل

## (Section 5) عمر محمد حامد

## (Section 5) يسرا سمير الأمير

## (Section 3) حسناء سيد عبده محمد

## (Section 7) يوسف سمير الأمير

## محمد ناجى محمد

1. **Script of the created tables:**

Drop table Bundles cascade constraints;

Drop table Users cascade constraints;

Drop table LikedSongs cascade constraints;

Drop table Songs cascade constraints;

Drop table Artist cascade constraints;

Drop table genres cascade constraints;

create table genres

(genreID number(2)primary key, genre varchar2(20) unique);

create table Bundles

(packageID number (1) primary key, packageName varchar2(50), perMonthDuration number(2), price number(3) check (price>=0));

create table Artist

(artistID number (3) primary key, artistName varchar2(20) unique not null);

create table Users

(userID number(3) primary key, userName varchar2(20) unique not null, Upassword varchar2(30) not null, packageID number (1) REFERENCES Bundles(packageID) ON Delete set null, gender varchar2 (1), email varchar2 (50), DOB date);

create table Songs

(songID number(3)primary key, songName varchar2(30), releaseDate date, genreID number(2) References genres(genreID) on delete set null, artistID number(3) REFERENCES Artist(artistID)on delete cascade);

create table likedSongs

(userID number(3) References Users(userID) on delete cascade, songID number(3) References Songs(songID) on delete cascade, CONSTRAINT LikedSong\_PK PRIMARY KEY(songID, userID));

insert into genres values

(1, 'pop');

insert into genres values

(2, 'rock');

insert into genres values

(3, 'RB');

insert into genres values

(4, 'disco');

insert into genres values

(5, 'soul');

insert into genres values

(6, 'indie');

insert into genres values

(7, 'folk');

insert into genres values

(8, 'hip-hop');

insert into Bundles values

(1, 'spotify free', 0, 0);

insert into Bundles values

(2, 'Premium duo', 2, 15);

insert into Bundles values

(3, 'Familiy Plan', 3, 40);

insert into Bundles values

(4, 'Student Plan', 6, 17);

insert into Bundles values

(5, 'Premium Individual', 3, 8);

insert into artist values

(1, 'Conan gray');

insert into artist values

(2, 'khalid');

insert into artist values

(3, 'Bruno mars');

insert into artist values

(4, 'Beyonce');

insert into artist values

(5, 'lana del ray');

insert into artist values

(6, 'the lumineers');

insert into artist values

(7, 'james bay');

insert into artist values

(8, 'the weeknd');

insert into songs values

(1, 'motion', '29-Jul-2018',3, 2);

insert into songs values

(2, 'electric', '20-Jan-2017',3, 2);

insert into songs values

(3, 'telepath', '15-Jul-2021',1, 1);

insert into songs values

(4, 'jigsaw', '15-Jul-2011',2, 1);

insert into songs values

(5, 'treasure', '15-Jul-2010',4, 3);

insert into songs values

(6, 'perm', '15-Jul-2015',8, 3);

insert into songs values

(7, 'all night', '15-Jul-2015',5, 4);

insert into songs values

(8, 'pretty hurts', '15-Jul-2011', 5, 4);

insert into songs values

(9, 'west coast', '15-Jul-2011',6, 5);

insert into songs values

(10, 'ophelia', '15-Jul-2015',7, 6);

insert into songs values

(11, 'craving', '14-Aug-2014',2, 7);

insert into songs values

(12, 'save your tears', '15-Jul-2021',1, 8);

insert into users values

(1, 'tim', 'tim\_1', 1, 'M', 'tim\_1@yahoo.com','01-MAY-2010');

insert into users values

(2, 'mark', 'mark\_2', 2, 'M', 'mark\_2@yahoo.com', '01-SEP-2000');

insert into users values

(3, 'matt', 'matt\_3', 3, 'M', 'matt\_3@yahoo.com', '01-OCT-1980');

insert into users values

(4, 'erica', 'erica\_4', 4, 'F', 'erica\_4@yahoo.com', '01-JUN-2002');

insert into users values

(5, 'jim', 'jim\_5', 5,'M', 'jim\_5@yahoo.com', '01-NOV-2003');

insert into likedsongs values

(1,1);

insert into likedsongs values

(1, 5);

insert into likedsongs values

(2, 12);

insert into likedsongs values

(2, 11);

insert into likedsongs values

(3, 7);

insert into likedsongs values

(3, 3);

insert into likedsongs values

(4, 2);

insert into likedsongs values

(4, 4);

insert into likedsongs values

(5, 6);

insert into likedsongs values

(5, 8);

commit;

1. **Stored Procedures:**

**2.1. byArtistName:**

create or replace

PROCEDURE byArtistName

(singer in VARCHAR2, output out sys\_refcursor)

as

begin

open output for

select songName, artistName, releaseDate, genre

from Songs , Artist , genres

where artistName = singer

and Songs.artistID = Artist.artistID

and songs.genreid = genres.genreid;

end;

**2.2. BySong\_ID:**

create or replace PROCEDURE bySong\_ID

(id in NUMBER, sn out VARCHAR2, an out VARCHAR2, release out date,category out VARCHAR2)

as

begin

select songName, artistName, releaseDate, genre

into sn, an, release, category

from Songs , Artist, genres

where songid = id and songs.artistid = Artist.artistid and songs.genreid = genres.genreid;

end;