

```
/*  
BEAUTIFUL AND WORKING VERSION OF PROJECT 4  
*/
```

```
# Copyright Table  
drop schema if exists project_4;  
create schema project_4;  
use project_4;
```

```
# COPYRIGHT TABLE 1ST
```

```
DROP TABLE IF EXISTS Copyright;  
CREATE TABLE Copyright(  
  `Copyright_ID` INT NOT NULL AUTO_INCREMENT,  
  `Copyright_name` VARCHAR(255) ,  
  PRIMARY KEY (`Copyright_ID`)  
);
```

```
INSERT INTO Copyright (Copyright_name) VALUES ('C 1992 Copyright Control, P 1992 Jams  
Communications'), ('P (P) 2009 RCA/JIVE Label Group, a unit of Sony Music Entertainment'),  
('P (P) 1999 Zomba Recording LLC'), ('C © 2014 Sanctuary Records Group Ltd., P © 2014  
Sanctuary Records Group Ltd.'), ('C © 2002 ABKCO Music & Records Inc., P © 2002 ABKCO  
Music & Records Inc.'), ('C © 2004 Warner Records Inc., P © 2004 Warner Records Inc.'), ('C ©  
2018 Friends Keep Secrets/Interscope Records, P © 2018 Friends Keep Secrets/Interscope  
Records'), ('C © 1997 Mercury Records Limited, P This Compilation © 1997 Mercury Records  
Limited'), ('C © 2002 Atlantic Recording Corp., marketed by Rhino Entertainment Company, a  
Warner Music Group company, P © 2002 Atlantic Recording Corp.'), ('C © 2016 Island Records,  
a division of UMG Recordings, Inc., P © 2016 Island Records, a division of UMG Recordings,  
Inc.'), ('C © 2003 Warner Strategic Marketing. Warner Music Group, an AOL Time Warner Co.,  
P © 2003 Warner Strategic Marketing. Warner Music Group, an AOL Time Warner Co.'), ('C ©  
1978 MPL Communications Inc/Ltd, P © 1993 MPL Communications Inc/Ltd'), ('C © 2014  
Asylum Records UK, a Warner Music UK Company, P © 2014 Asylum Records UK, a Warner  
Music UK Company, except track 16 2013 Warner Bros. Entertainment Inc. and');
```

```
# STATISTIC TABLE
```

```
DROP TABLE IF EXISTS statistic;  
CREATE TABLE statistic (  
  `stats_id` INT NOT NULL AUTO_INCREMENT,  
  `danceability` DOUBLE,  
  `energy` DOUBLE,  
  `key` INT,
```

```

`loudness` DOUBLE,
`mode` INT,
`speechiness` DOUBLE,
`acousticness` DOUBLE,
`instrumentalness` DOUBLE,
`liveness` DOUBLE,
`valence` DOUBLE,
`tempo` DOUBLE,
`time_signature` INT,
PRIMARY KEY (`stats_id`)
);

```

```

INSERT INTO statistic ( `danceability`, `energy`, `key`, `loudness`, `mode`, `speechiness`,
`acousticness`, `instrumentalness`, `liveness`, `valence`, `tempo`, `time_signature` ) VALUES (
0.75, 0.88, 2, -5.6, 1, 0.04, 0.002, 0.0, 0.22, 0.75, 115.5, 4), (0.82, 0.72, 5, -7.4, 0, 0.03, 0.005,
0.0, 0.11, 0.88, 120.0, 4), (0.68, 0.7, 7, -6.3, 1, 0.03, 0.5, 0.0, 0.12, 0.45, 98.0, 4), (0.54, 0.86,
10, -5.7, 0, 0.06, 0.12, 0.0, 0.1, 0.72, 127.0, 4), (0.66, 0.74, 0, -6.5, 1, 0.03, 0.14, 0.0, 0.13, 0.6,
105.0, 4), (0.77, 0.91, 11, -3.1, 0, 0.12, 0.01, 0.0, 0.1, 0.78, 123.0, 4), (0.8, 0.76, 1, -5.2, 1, 0.05,
0.1, 0.0, 0.15, 0.64, 95.0, 4), (0.62, 0.78, 4, -6.4, 0, 0.04, 0.03, 0.0, 0.17, 0.32, 109.5, 4), (0.45,
0.82, 9, -6.3, 1, 0.03, 0.02, 0.0, 0.07, 0.41, 89.5, 3), (0.85, 0.65, 0, -5.9, 0, 0.07, 0.18, 0.0, 0.11,
0.68, 134.0, 4), (0.78, 0.76, 7, -6.6, 1, 0.04, 0.15, 0.0, 0.12, 0.58, 100.0, 4), (0.64, 0.71, 2, -7.3,
0, 0.03, 0.03, 0.0, 0.13, 0.6, 110.0, 4), (0.73, 0.82, 5, -4.6, 1, 0.06, 0.12, 0.0, 0.1, 0.75, 121.0, 4),
(0.81, 0.9, 10, -5.0, 0, 0.04, 0.02, 0.0, 0.18, 0.88, 126.5, 4), (0.72, 0.8, 3, -6.8, 1, 0.04, 0.09, 0.0,
0.1, 0.7, 97.5, 4);

```

```

INSERT INTO statistic (
Danceability, Energy, `Key`, Loudness, `Mode`, Speechiness,
Acousticness, Instrumentalness, Liveness, Valence, Tempo, Time_Signature
) VALUES (
0.617, 0.872, 8, -12.305, 1, 0.048, 0.0158, 0.112, 0.408, 0.504, 111.458, 4
), (
0.825, 0.743, 2, -5.995, 1, 0.149, 0.0142, 0.0000212, 0.237, 0.8, 127.045, 4
), (
0.677, 0.665, 7, -5.171, 1, 0.0305, 0.56, 0.00000101, 0.338, 0.706, 74.981, 4
), (
0.683, 0.728, 9, -8.92, 1, 0.259, 0.568, 0.0000508, 0.0384, 0.833, 75.311, 4
), (
0.319, 0.627, 0, -9.611, 1, 0.0687, 0.675, 0.0000729, 0.289, 0.497, 85.818, 4
), (
0.671, 0.71, 9, -7.724, 1, 0.0356, 0.0393, 0.0000112, 0.0387, 0.834, 118.745, 4
), (
0.56, 0.68, 6, -7.648, 0, 0.321, 0.555, 0, 0.116, 0.319, 89.391, 4
), (
0.48, 0.628, 6, -7.643, 1, 0.0262, 0.174, 0.0000328, 0.0753, 0.541, 143.412, 4

```

```
), (  
    0.852, 0.874, 7, -11.208, 1, 0.0427, 0.0168, 0.45, 0.133, 0.666, 129.029, 4  
) , (  
    0.557, 0.533, 10, -5.554, 1, 0.0252, 0.0492, 0, 0.205, 0.233, 143.994, 4  
) , (  
    0.26, 0.659, 2, -8.98, 1, 0.0625, 0.114, 0.0000295, 0.499, 0.537, 184.38, 4  
) , (  
    0.652, 0.372, 6, -15.445, 0, 0.0321, 0.069, 0.000197, 0.0923, 0.283, 111.984, 4  
);
```

USER TABLE

DROP TABLE IF EXISTS User;

```
CREATE TABLE User (  
    user_id INT NOT NULL AUTO_INCREMENT,  
    user_name VARCHAR(120),  
    PRIMARY KEY (user_id)  
);
```

INSERT INTO User (user_name) VALUES

```
('bradnumberone'),  
( 'brodie2'),  
( 'tommyboy'),  
( 'tristan_skylour'),  
( 'megaphone_dude'),  
( 'pizza_delivery_guy123'),  
( 'snoop_dogg_sons'),  
( 'dr_pickles'),  
( 'brock'),  
( 'harvey'),  
( 'tom_holland'),  
( 'great_value_rock'),  
( 'Bob34'),  
( 'Jim'),  
( 'Michael Scott');
```

Genre Table

DROP TABLE IF EXISTS Genre;

```
CREATE TABLE Genre(  
    genre_id INT NOT NULL AUTO_INCREMENT,  
    genre_name VARCHAR(255),
```

```
PRIMARY KEY (genre_id)
);
```

```
INSERT INTO Genre (genre_name) VALUES
('acid house,ambient house,big beat,hip house'),
('dance pop,miami hip hop,pop'),
('dance pop,pop'),
('album rock,art rock,british invasion,classic rock,folk rock,glam rock,protopunk,psychedelic
rock,rock,singer-songwriter'),
('album rock,british invasion,classic rock,rock'),
('album rock,classic rock,rock,soft rock,yacht rock'),
('pop,electropop,etherpop,indie pop,optimism,pop,pop,pop r&b'),
('glam rock,mellow gold,piano rock,rock'),
('album rock,classic rock,glam metal,hard rock,heartland rock,mellow gold,rock,soft rock'),
('canadian pop,pop,viral pop'),
('east coast hip hop,golden age hip hop,hip hop,old school hip hop,queens hip hop,rap'),
('alternative metal,nu metal,post-grunge,rock'),
('album rock,beatlesque,bubblegum pop,classic rock,folk rock,heartland rock,mellow
gold,psychedelic rock,rock-and-roll,singer-songwriter,soft rock,sunshine pop'),
('album rock,beatlesque,classic rock,folk rock,heartland rock,mellow gold,rock,singer-
songwriter,soft rock'),
('pop,singer-songwriter pop,uk pop'),
('australian pop,australian talent show'),
('disco,hi-nrg'),
('glee club,post-teen pop'),
('album rock,hard rock,rock'),
('album rock,beatlesque,classic rock,psychedelic rock,rock');
```

```
# ALBUM
```

```
DROP TABLE IF EXISTS Album;
CREATE TABLE Album(
  Album_ID INT NOT NULL AUTO_INCREMENT,
  Album_URI VARCHAR(255),
  Album_name VARCHAR(255),
  Artist_URI VARCHAR(255),
  Release_date DATETIME,
  Image_URL VARCHAR(255),
  Disc_no INT,
  Track_no INT,
  Album_Genre VARCHAR(255), -- Changed to VARCHAR(255) to match genre_name
  PRIMARY KEY (Album_ID)
);
#FOREIGN KEY (Album_Genre) REFERENCES genre(genre_name)
```

```

#);
/*
-- Create a table to represent the relationship between Album and Genre
-- Create a table to represent the relationship between Album and Genre
drop table if exists album_genre;
CREATE TABLE Album_genre (
    Album_ID INT,
    Genre_ID INT,
    FOREIGN KEY (Album_ID) REFERENCES Album(Album_ID),
    FOREIGN KEY (Genre_ID) REFERENCES Genre(genre_id),
    PRIMARY KEY (Album_ID, Genre_ID)
);

-- Insert data into AlbumGenre
INSERT INTO AlbumGenre (Album_ID, Genre_ID)
VALUES
    (1, 1), -- Assuming genre_id = 1 corresponds to 'album rock' in the Genre table
    (2, 1),
    -- Add more rows as needed

select * from genre;
select * from album;
*/

-- Alter the Album Table to add a foreign key constraint
ALTER TABLE Album
ADD COLUMN Genre_ID INT,
ADD CONSTRAINT fk_Album_Genre
    FOREIGN KEY (Genre_ID) REFERENCES Genre(genre_id);

INSERT INTO Album (Album_URI, Album_name, Artist_URI, Release_date, Image_URL,
Disc_no, Track_no, Album_Genre, Genre_ID) VALUES (
'spotify:album:6lL6HugNEN4Vlc8sj0Zcse', 'Lola vs. Powerman and the Moneygoround, Pt. One
+ Percy (Super Deluxe)', 'spotify:artist:1SQRv42e4PjEYfPhS0Tk9E', '2014-10-20',
'https://i.scdn.co/image/ab67616d0000b2731e7c5307ccbbb74101e0cc77', 1, 11, 'album rock,art
rock,british invasion,classic rock,folk rock,glam rock,protopunk,psychedelic rock,rock,singer-
songwriter', 4),
('spotify:album:0c78nsgqX6VfniSNWlxwoD', 'Let It Bleed',
'spotify:artist:22bE4uQ6baNwSHPVcDxLCe', '1969-12-05',
'https://i.scdn.co/image/ab67616d0000b27373d92707b0e7da0c493f5b86', 1, 9, 'album
rock,british invasion,classic rock,rock', 5),
('spotify:album:1bt6q2SruMsBtcerNVtpZB', 'Rumours',
'spotify:artist:08GQAI4eEIDnROBrJRGE0X', '1977-02-04',
'https://i.scdn.co/image/ab67616d0000b27357df7ce0eac715cf70e519a7', 1, 4, 'album
rock,classic rock,rock,soft rock,yacht rock', 6),

```

('spotify:album:3n3Ppam7vgaVa1iaRUc9Lp', 'Led Zeppelin IV',
 'spotify:artist:36QJpDe2go2KgaRleHCdTp', '1971-11-08',
 'https://i.scdn.co/image/ab67616d0000b2736b0b97ba1b888e4075929d92', 1, 8, 'album
 rock,hard rock,rock', 19),
 ('spotify:album:5tz69p7tJuGPeMGwNTxYuV', 'Abbey Road (Remastered)',
 'spotify:artist:3WrFJ7ztbogyGnTHbHJFI2', '1969-09-26',
 'https://i.scdn.co/image/ab67616d0000b2730884d12c80b872f78179263a', 1, 9, 'album
 rock,beatlesque,classic rock,psychedelic rock,rock', 20),
 ('spotify:album:338yWfNJWW2SXxVfldczUD', 'The Best of The Monkees',
 'spotify:artist:320EPCSEezHt1rtbfwH6Ck', '2003-01-01',
 'https://i.scdn.co/image/ab67616d0000b2730b74e9fcbe76d8245535a207', 1, 25, 'album
 rock,beatlesque,bubblem pop,classic rock,folk rock,heartland rock,mellow gold,psychedelic
 rock,rock-and-roll,singer-songwriter,soft rock,sunshine pop', 13),
 ('spotify:album:5zh2BzO2n6tSpZe0PgZc8v', 'London Town',
 'spotify:artist:3sFhA6G1N0gG1pszb6kk1m', '1978-03-31',
 'https://i.scdn.co/image/ab67616d0000b273d3473b6adad75bf820f3a134', 1, 9, 'album
 rock,beatlesque,classic rock,folk rock,heartland rock,mellow gold,rock,singer-songwriter,soft
 rock', 14),
 ('spotify:album:1xn54DMo2qlqBuMqHtUsFd', 'x (Deluxe Edition)',
 'spotify:artist:6eUKZXXaKkcviH0Ku9w2n3V', '2014-06-21',
 'https://i.scdn.co/image/ab67616d0000b27313b3e37318a0c247b550bccd', 1, 3, 'pop,singer-
 songwriter pop,uk pop',15);

Artist Table

DROP TABLE IF EXISTS artist;

```

CREATE TABLE artist(
  Artist_ID INT NOT NULL AUTO_INCREMENT,
  Artist_name VARCHAR(255),
  Artist_URI VARCHAR(255),
  PRIMARY KEY (Artist_ID)
);
  
```

```

INSERT INTO artist (Artist_name, Artist_URI) VALUES (
  'The KLF', 'spotify:artist:6dYrdRINZSKaVxYg5IrvCH'),
  ('Pitbull', 'spotify:artist:0TnOYISbd1XYRBk9myaseg'),
  ('Britney Spears', 'spotify:artist:26dSoYclwsYLMaKD3tpOr4'),
  ('The Kinks', 'spotify:artist:1SQRv42e4PjEYfPhS0Tk9E'),
  ('The Rolling Stones', 'spotify:artist:22bE4uQ6baNwSHPVcDxLCe'),
  ('Fleetwood Mac', 'spotify:artist:08GQAI4eEIDnROBrJRGE0X'),
  ('benny blanco, Halsey, Khalid', 'spotify:artist:5CiGnKThu5ctn9pBxv7DGa'),
  ('Elton John', 'spotify:artist:3PhoLpVuITZKcymswpck5b'),
  ('Foreigner', 'spotify:artist:6IRouO5mvvfcyxtPDKMYFN'),
  ('Shawn Mendes', 'spotify:artist:7n2wHs1TKAczGzO7Dd2rGr'),
  
```

```
('Run–D.M.C.', 'spotify:artist:3CQIn7N5CuRDP8wEI7FiDA'),
('3 Doors Down', 'spotify:artist:2RTUTCvo6onsAnheUk3aL9'),
('The Monkees', 'spotify:artist:320EPCSEezHt1rtbfwH6Ck'),
('Wings', 'spotify:artist:3sFhA6G1N0gG1pszb6kk1m'),
('Ed Sheeran', 'spotify:artist:6eUKZXaKkcviH0Ku9w2n3V'),
('Pussycat', 'spotify:artist:2rmQ5EEAikloNGWdGlvCYM');
```

Connect Artist to Genre by creating Artist_Genre table

```
DROP TABLE IF EXISTS artist_genre;
CREATE TABLE artist_genre(
  Artist_ID INT NOT NULL,
  Genre_ID INT NOT NULL,
  PRIMARY KEY (Artist_ID, Genre_ID),
  FOREIGN KEY (Artist_ID) REFERENCES Artist(Artist_ID), -- Adjust the table name based on
your Artist table
  FOREIGN KEY (Genre_ID) REFERENCES Genre(Genre_ID) -- Adjust the table name based
on your Genre table
);
```

```
INSERT INTO Artist_Genre (Artist_ID, Genre_ID) VALUES (
1,1),
(2,2),
(3,3),
(4,4),
(5,5),
(6,6),
(7,7),
(8,8),
(9,9),
(10,10),
(11,11),
(12,12),
(13,13),
(14,14),
(15,15),
(16,16);
```

Artist_Album Table

```
DROP TABLE IF EXISTS artist_album;
CREATE TABLE artist_album(
```

```

album_id INT NOT NULL,
artist_id INT NOT NULL,
album_artist_URI VARCHAR(255),
album_artist_name VARCHAR(255),
PRIMARY KEY (album_id, artist_id),
FOREIGN KEY (album_id) REFERENCES album(Album_ID),
FOREIGN KEY (artist_id) REFERENCES artist(Artist_ID)
);

```

```

INSERT INTO artist_album (album_id, artist_id, album_artist_URI, album_artist_name)
VALUES (
  1, 4, 'spotify:artist:1SQRv42e4PjEYfPhS0Tk9E', 'The Kinks'),
  (2, 5, 'spotify:artist:22bE4uQ6baNwSHPVcDxLCe', 'The Rolling Stones'),
  (3, 6, 'spotify:artist:08GQAI4eEIDnROBrJRGE0X', 'Fleetwood Mac'),
  (6, 13, 'spotify:artist:320EPCSEezHt1rtbfwH6Ck', 'The Monkees'),
  (7, 14, 'spotify:artist:3sFhA6G1N0gG1pszb6kk1m', 'Wings'),
  (8, 15, 'spotify:artist:6eUKZXaKkcviH0Ku9w2n3V', 'Ed Sheeran');

```

Track Table

```

DROP TABLE IF EXISTS track;
CREATE TABLE track (
  track_ID INT NOT NULL AUTO_INCREMENT,
  ISRC VARCHAR(120),
  track_uri VARCHAR(120),
  track_name VARCHAR(120),
  track_duration INT,
  artist_id INT,
  preview_url VARCHAR(120),
  explicit BINARY,
  album_id INT,
  popularity INT,
  added_by INT,
  label VARCHAR(120),
  stats_id INT,
  PRIMARY KEY (track_id),
  FOREIGN KEY (stats_id) REFERENCES statistic (stats_id)
);

```

```

INSERT INTO track (
  ISRC,
  track_uri,
  track_name,
  track_duration,

```



```

artist_id,
preview_url,
explicit,
album_id,
popularity,
added_by,
label,
stats_id) VALUES (
'QMARG1760056', 'spotify:track:1XAZInVtthcDZt2NI1Dtso', 'Justified & Ancient - Stand by the
Jams', 216270, 1, NULL, 0, 1, 0, 1, 'Jams Communications', 1),
('USJAY0900144', 'spotify:track:6a8GbQIIV8HBUW3c6Uk9PH', 'I Know You Want Me (Calle
Ocho)', 237120, 2, 'https://p.scdn.co/mp3-
preview/d6f8883fc955cb0ecb7f3e1e06e77a9d8611158d?cid=9950ac751e34487dbbe027c4fd7f
8e99', 0, 2, 64, 2, 'Mr.305/Polo Grounds Music/J Records', 2),
('USJI19910455', 'spotify:track:70XtWbcVZcpaOddJftMcVi', 'From the Bottom of My Broken
Heart', 312533, 3, 'https://p.scdn.co/mp3-
preview/1de5faef947224dcb7efb26a5303ae0735b28167?cid=9950ac751e34487dbbe027c4fd7f
8e99', 0, 3, 56, 2, 'Jive', 3),
('GB5KW1499822', 'spotify:track:1NXUWyPJk5kO6DQJ5t7bDu', 'Apeman - 2014
Remastered Version', 233400, 4, 'https://p.scdn.co/mp3-
preview/c4df3a832509cc5506bd0c91419146f78d864825?cid=9950ac751e34487dbbe027c4fd7f
8e99', 0, 4, 42, 2, 'Sanctuary Records', 4),
('USA176910100', 'spotify:track:72WZtWs6V7uu3aMgMmEkYe', 'You Cant Always Get What
You Want', 448720, 5, NULL, 0, 5, 0, 1, 'Universal Music Group', 5),
('USWB10400049', 'spotify:track:4bEb3KE4mSKITFjtWJQBqO', 'Dont Stop - 2004 Remaster',
193346, 6, 'https://p.scdn.co/mp3-
preview/64b1e9388ec19f29fa36d38d1f80f56d77df56a3?cid=9950ac751e34487dbbe027c4fd7f8
e99', 0, 6, 79, 3, 'Rhino/Warner Records', 6),
('USUM71809132', 'spotify:track:0d2iYfpKoM0QCKvcLCk Bao', 'Eastside (with Halsey &
Khalid)', 173799, 7, 'https://p.scdn.co/mp3-
preview/24726be4c89b67eab298a72560b637581450421c?cid=9950ac751e34487dbbe027c4fd
7f8e99', 0, 7, 78, 1, 'Benny Blanco Solo Album PS', 7),
('GBAMS9700013', 'spotify:track:5LjSxAlKwyZvQqJ04ZQ0Da', 'Something About The Way
You Look Tonight - Edit Version', 240546, 8, 'https://p.scdn.co/mp3-
preview/3e5a8a62babcf10b5b4d11d1485f4ed452dbdc7b?cid=9950ac751e34487dbbe027c4fd7
f8e99', 0, 8, 61, 2, 'EMI', 8),
('USAT20803006', 'spotify:track:00qOE7OjRI0BpYiCiweZB2', 'Juke Box Hero', 259800, 9,
'https://p.scdn.co/mp3-
preview/2353bb343dd4f1872d954b1603587597e9258630?cid=9950ac751e34487dbbe027c4fd
7f8e99', 0, 9, 74, 2, 'Rhino Atlantic', 9),
('USUM71603531', 'spotify:track:3OalxIWH0v14kyBcNBMINT', 'Mercy', 208733, 10, NULL, 0,
10, 0, 1, 'Universal Music Group', 10),
('USAR19700609', 'spotify:track:0CtkjgZpkgW7U6WmHsakD', 'Its Like That', 250626, 11,
'https://p.scdn.co/mp3-

```

preview/96c34eb444ca9d7fb771afc47a1fd85c556eda29?cid=9950ac751e34487dbbe027c4fd7f8e99', 0, 11, 68, 4, 'Arista', 11),

('USUR10200764', 'spotify:track:3NLrRZoMF0Lx6zTIYqelo4', 'Here Without You', 238733, 12, 'https://p.scdn.co/mp3-

preview/9b68307f4204ff0342561d75a6c48312abb3e0d3?cid=9950ac751e34487dbbe027c4fd7f8e99', 0, 12, 80, 1, 'Universal Records', 12);

Track_artist

```
DROP TABLE IF EXISTS track_artist;
CREATE TABLE track_artist(
  track_id INT NOT NULL,
  artist_id INT NOT NULL,
  track_URI VARCHAR(255),
  artist_URI VARCHAR(255),
  PRIMARY KEY (track_id, artist_id),
  FOREIGN KEY (track_id) REFERENCES track(track_id),
  FOREIGN KEY (artist_id) REFERENCES artist(artist_id)
);
```

```
INSERT INTO Track_artist (track_id, artist_id, track_URI, artist_URI) VALUES
(1, 1, 'spotify:track:1XAZInVtthcDZt2N11Dtxo', 'spotify:artist:6dYrdRINZSKaVxYg5IrvCH'),
(2, 2, 'spotify:track:6a8GbQIIv8HBUW3c6Uk9PH', 'spotify:artist:0TnOYISbd1XYRBk9myaseg'),
(3, 3, 'spotify:track:70XtWbcVZcpaOddJftMcVi', 'spotify:artist:26dSoYclwsYLMakD3tpOr4'),
(4, 4, 'spotify:track:1NXUWyPjk5kO6DQJ5t7bDu', 'spotify:artist:1SQRv42e4PjEYfPhS0Tk9E'),
(5, 5, 'spotify:track:72WZtWs6V7uu3aMgMmEkYe',
'spotify:artist:22bE4uQ6baNwSHPVcDxLCe'),
(6, 6, 'spotify:track:4bEb3KE4mSKITFjtWJQBqO', 'spotify:artist:08GQAI4eEIDnROBrJRGE0X'),
(7, 7, 'spotify:track:0d2iYfpKoM0QCKvcLCk Bao', 'spotify:artist:5CiGnKThu5ctn9pBxv7DGa'),
(8, 8, 'spotify:track:5LjSxAIKwyZvQqJ04ZQ0Da', 'spotify:artist:3PhoLpVuITZKcymswpck5b'),
(9, 9, 'spotify:track:00qOE7OjRI0BpYiCiweZB2', 'spotify:artist:6IRouO5mvvfcyxtPDKMYFN'),
(10, 10, 'spotify:track:3OalxIWH0v14kyBcNBMINt', 'spotify:artist:2RTUTCvo6onsAnheUk3aL9'),
(12, 12, 'spotify:track:3NLrRZoMF0Lx6zTIYqelo4', 'spotify:artist:2RTUTCvo6onsAnheUk3aL9');
```

Track_Copyright

```
DROP TABLE IF EXISTS track_copyright;
CREATE TABLE track_copyright(
  track_id INT NOT NULL,
  copyright_id INT NOT NULL,
  Primary key (track_id, copyright_id),
  Foreign key (track_id) references track(track_id),
  Foreign key (copyright_id) references copyright(copyright_id)
);
```

```
INSERT INTO Track_copyright (track_id, copyright_id) VALUES (
1,1),
(2,2),
(3,3),
(4,4),
(5,5),
(6,6),
(7,7),
(8,8),
(9,9),
(10,10),
(11,11),
(12,12);
```

Update

```
UPDATE statistic SET danceability = 0.85, energy = 0.8 WHERE stats_id = 2;
```

Delete

```
DELETE FROM track_artist WHERE track_id = 5;
```

Queries:

1. #What's the top 5 popular tracks in the subsetted database?

```
SELECT track_name, track_uri, popularity
FROM track
ORDER BY popularity DESC
LIMIT 5;
```

track_name	track_uri	popularity
Here Without You	spotify:track:3NlrRZoMF0Lx6zTIYqeIo4	80
Dont Stop - 2004 Remaster	spotify:track:4bEb3KE4mSKlTFjtWJQBqO	79
Eastside (with Halsey & Khalid)	spotify:track:0d2iYfpKoM0QCKvclCk Bao	78
Juke Box Hero	spotify:track:00qOE7OjRI0BpYiCiweZB2	74
Its Like That	spotify:track:0CtkjgZpkgnW7U6WmHsakD	68

2. #Who are the top 5 popular artists in the database?

```
SELECT popularity, Track_artist.Artist_URI, artist.Artist_Name FROM track
INNER JOIN Track_artist ON track.Track_URI = Track_artist.Track_URI
INNER JOIN artist ON Track_artist.Artist_URI = artist.Artist_URI
ORDER BY popularity DESC
LIMIT 5;
```

popularity	Artist_URI	Artist_Name
80	spotify:artist:2RTUTCvo6onsAnheUk3aL9	3 Doors Down
79	spotify:artist:08GQAI4eElDnROBrJRGE0X	Fleetwood Mac
78	spotify:artist:5CiGnKThu5ctn9pBxv7DGa	benny blanco, Halsey, Khalid
74	spotify:artist:6IRouO5mvvfcyxtPDKMYFN	Foreigner
64	spotify:artist:0TnOYISbd1XYRBk9myaseg	Pitbull

3. #How did the popularity of the songs whose danceability, energy, and liveness are above average compare to the most popular songs?

```

SELECT
    t.track_name, t.popularity
FROM
    statistic s
JOIN
    track t ON s.stats_id = t.stats_id
CROSS JOIN
    (SELECT
        AVG(danceability) AS avg_danceability,
        AVG(energy) AS avg_energy,
        AVG(liveness) AS avg_liveness
    FROM
        statistic
    ) avg
WHERE
    s.danceability > avg.avg_danceability
    AND s.energy > avg.avg_energy
    AND s.liveness > avg.avg_liveness;

```

track_name	popularity
Justified & Ancient - Stand by the Jams	0

4. # Are songs whose duration is longer than 3 minutes more popular than songs whose duration is less than that?

```

SELECT
    CASE WHEN track.track_duration/60000 > 3 THEN 'more than 3 minutes'
         WHEN track.track_duration/60000 < 3 THEN 'less than 3 minutes'
         ELSE '3 minutes'
    END AS track_duration_category,
    AVG(popularity) AS average_popularity
FROM track
GROUP BY track_duration_category;

```

track_duration_category	average_popularity
more than 3 minutes	47.6364
less than 3 minutes	78.0000

5. # Which label produced the least popular tracks and what was the track name?
 select label, max(popularity), track_name from track
 group by label, track_name
 order by max(popularity)
 limit 5;

label	max(popularity)	track_name
Jams Communications	0	Justified & Ancient - Stand by the Jams
Universal Music Group	0	Mercy
Universal Music Group	0	You Cant Always Get What You Want
Sanctuary Records	42	Apeman - 2014 Remastered Version
Jive	56	From the Bottom of My Broken Heart