

MUSIC RECOMMENDATION SYSTEM

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Abstract

The Music Recommendation Database Project aims to develop a robust platform for managing music-related data and providing personalized recommendations to users. Through this project, users can enjoy a seamless music discovery experience while benefiting from personalized recommendations aligned with their musical tastes and interests.

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Music Recommendation System

Project for SQL Module

1. Description:

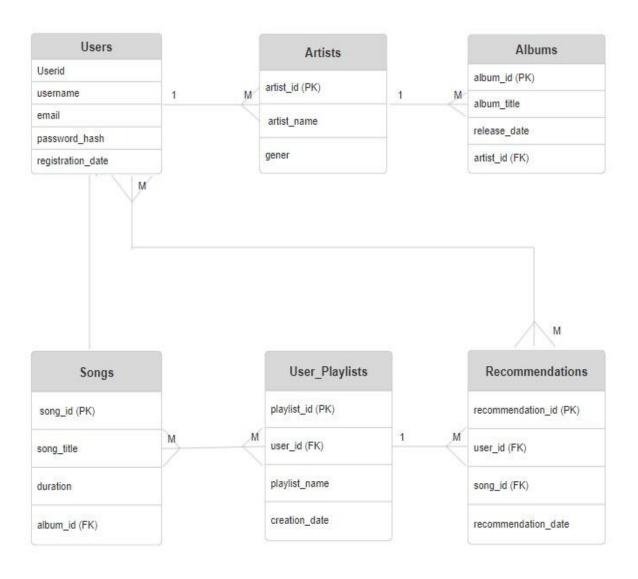
The Music Recommendation Database project aims to create a comprehensive system for managing user accounts, music artists, albums, songs, playlists, and recommendations. This database will serve as the foundation for a music streaming platform where users can discover new music based on their preferences and receive personalized recommendations.

This database contains 5 tables:

- 1. Users
- 2. Artists
- 3. Albums
- 4. Songs
- 5. Users playlist
- 6. Recommendations

Through this database project, users can register, explore artists and albums, create playlists, and receive personalized recommendations based on their preferences. The relational structure of the tables facilitates efficient data management and recommendation generation, enhancing the overall music discovery experience for users.

2. ER-Diagram (Entity Relation–Diagram) for Music Recommendation System



3. Table Description:

1. Users

Field	Туре	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	
username	varchar(50)	YES		NULL	
email	varchar(100)	YES		NULL	
password_hash	varchar(255)	YES		NULL	
registration_date	date	YES		NULL	

2. Artists

Field	Туре	Null	Key	Default	Extra
artist_id	int	NO	PRI	NULL	
artist_name	varchar(100)	YES		NULL	
genre	varchar(50)	YES		NULL	

3. Albums

Field	Type	Null	Key	Default	Extra
album_id	int	NO	PRI	NULL	
album_title	varchar(100)	YES		NULL	
release_date	date	YES		NULL	
artist_id	int	YES	MUL	NULL	

4. Song

Field	Туре	Null	Key	Default	Extra
song_id	int	NO	PRI	NULL	
song_title	varchar(255)	YES		NULL	
duration	time	YES		NULL	
artist_id	int	YES	MUL	NULL	

5. User Playlist

Field	Туре	Null	Key	Default	Extra
playlist_id	int	NO	PRI	NULL	
user_id	int	YES	MUL	NULL	
playlist_name	varchar(255)	YES		NULL	
creation_date	date	YES		NULL	

6. Recommendations

Field	Туре	Null	Key	Default	Extra
recommendation_id	int	NO	PRI	NULL	
user_id	int	YES	MUL	NULL	
song_id	int	YES	MUL	NULL	
recommendation_date	date	YES		NULL	

4. Commands

- create database shraddha26;
- use shraddha26;
- CREATE TABLE Users (
 user_id INT PRIMARY KEY,
 username VARCHAR(50),
 email VARCHAR(100),
 password_hash VARCHAR(20),
 registration_date DATE
);
- DESC Users;
- INSERT INTO Users (user_id, username, email, password_hash, registration_date)
- VALUES
 - (1, 'Ananya', 'ananya@example.com', 'Ananya@1', '2024-04-25'),
 - (2, 'Aarav', 'aarav@example.com', 'Aarav@2', '2024-04-25'),
 - (3, 'Advait', 'advait@example.com', 'Advait@3', '2024-04-25'),
 - (4, 'Ayesha', 'ayesha@example.com', 'Ayesha@4', '2024-04-25'),
 - (5, 'Dhruv', 'dhruv@example.com', 'Dhruv@5', '2024-04-25'),
 - (6, 'Ishaan', 'ishaan@example.com', 'Ishaan@6', '2024-04-25'),
 - (7, 'Kavya', 'kavya@example.com', 'Kavya@7', '2024-04-25'),
 - (8, 'Neha', 'neha@example.com', 'Neha@8', '2024-04-25'),
 - (9, 'Nikhil', 'nikhil@example.com', 'Nikhil@9', '2024-04-25'),
 - (10, 'Priya', 'priya@example.com', 'Priya@10', '2024-04-25'),
 - (11, 'Rahul', 'rahul@example.com', 'Rahul@11', '2024-04-25'),
 - (12, 'Sahil', 'sahil@example.com', 'Sahil@12', '2024-04-25'),
 - (13, 'Tanvi', 'tanvi@example.com', 'Tanvi@13', '2024-04-25'),
 - (14, 'Yash', 'yash@example.com', 'Yash@14', '2024-04-25'),
 - (15, 'Aaradhya', 'aaradhya@example.com', 'Aaradhya@15', '2024-04-25'),
 - (16, 'Arjun', 'arjun@example.com', 'Arjun@16', '2024-04-25'),
 - (17, 'Avani', 'avani@example.com', 'Avani@17', '2024-04-25'),
 - (18, 'Devika', 'devika@example.com', 'Devika@18', '2024-04-25'),
 - (19, 'Ishika', 'ishika@example.com', 'Ishika@19', '2024-04-25'),
 - (20, 'Kabir', 'kabir@example.com', 'Kabir@20', '2024-04-25'),
 - (21, 'Meera', 'meera@example.com', 'Meera@21', '2024-04-25'),
 - (22, 'Rishi', 'rishi@example.com', 'Rishi@22', '2024-04-25'),
 - (23, 'Ria', 'ria@example.com', 'Ria@23', '2024-04-25'),
 - (24, 'Rohan', 'rohan@example.com', 'Rohan@24', '2024-04-25'),
 - (25, 'Sanya', 'sanya@example.com', 'Sanya25', '2024-04-25'),

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(26, 'Shiv', 'shiv@example.com', 'Shiv@26', '2024-04-25'),
  (27, 'Tara', 'tara@example.com', 'Tara@27', '2024-04-25'),
  (28, 'Aryan', 'aryan@example.com', 'Aryan@28', '2024-04-25'),
  (29, 'Avni', 'avni@example.com', 'Anvi@29', '2024-04-25'),
  (30, 'Vihaan', 'vihaan@example.com', 'Vihaan@30', '2024-04-25');
  select * from Users:
CREATE TABLE Artists (
  artist_id INT PRIMARY KEY,
  artist_name VARCHAR(100),
  genre VARCHAR(50)
);
DESC Artists;
INSERT INTO Artists (artist_id, artist_name, genre)
VALUES
  (1, 'Arijit Singh', 'Bollywood'),
  (2, 'Shreya Ghoshal', 'Bollywood'),
  (3, 'A.R. Rahman', 'Bollywood'),
  (4, 'Atif Aslam', 'Bollywood'),
  (5, 'Sunidhi Chauhan', 'Bollywood'),
  (6, 'Neha Kakkar', 'Bollywood'),
  (7, 'Sonu Nigam', 'Bollywood'),
  (8, 'Lata Mangeshkar', 'Bollywood'),
  (9, 'Armaan Malik', 'Bollywood'),
  (10, 'Nusrat Fateh Ali Khan', 'Sufi'),
  (11, 'Rahat Fateh Ali Khan', 'Sufi'),
  (12, 'Amit Trivedi', 'Bollywood'),
  (13, 'Mohit Chauhan', 'Bollywood'),
  (14, 'Shaan', 'Bollywood'),
  (15, 'Udit Narayan', 'Bollywood'),
  (16, 'Javed Ali', 'Bollywood'),
  (17, 'K.K.', 'Bollywood'),
  (18, 'Asees Kaur', 'Bollywood'),
  (19, 'Pritam', 'Bollywood'),
  (20, 'Ankit Tiwari', 'Bollywood');
  select * from Artists;
```

```
    CREATE TABLE Songs (
        song_id INT PRIMARY KEY,
        song_title VARCHAR(255),
        duration TIME,
        artist_id INT,
        FOREIGN KEY (artist_id) REFERENCES Artists(artist_id)
```

```
);
 DESC Songs;
 INSERT INTO Songs (song_id, song_title, duration, artist_id)
    (1, 'Tum Hi Ho', '00:04:24', 1),
   (2, 'Channa Mereya', '00:04:49', 1),
    (3, 'Kal Ho Naa Ho', '00:05:21', 2),
    (4, 'Gerua', '00:04:47', 3),
    (5, 'Jeene Laga Hoon', '00:03:52', 4),
    (6, 'Tera Ban Jaunga', '00:03:56', 5),
    (7, 'Dil Diyan Gallan', '00:04:21', 4),
    (8, 'Dilbar', '00:02:45', 6),
    (9, 'Mere Sapno Ki Rani', '00:04:46', 7),
    (10, 'Suraj Hua Maddham', '00:07:05', 3),
    (11, 'Tera Ghata', '00:02:44', 8),
    (12, 'Tujhe Kitna Chahne Lage', '00:04:42', 1),
    (13, 'Tum Se Hi', '00:04:35', 9),
    (14, 'Iktara', '00:04:13', 10),
    (15, 'Afreen Afreen', '00:06:45', 11),
    (16, 'Pehli Nazar Mein', '00:05:27', 12),
    (17, 'Zara Zara', '00:05:30', 13),
    (18, 'Bol Do Na Zara', '00:04:53', 14),
    (19, 'Janam Janam', '00:03:59', 15),
    (20, 'Tum Mile', '00:05:33', 16);
    select * from songs;
CREATE TABLE Albums (
    album id INT PRIMARY KEY,
    album_title VARCHAR(100),
    release_date DATE,
    artist_id INT,
    FOREIGN KEY (artist id) REFERENCES Artists (artist id)
DESC Albums;
 INSERT INTO Albums (album_id, album_title, release_date, artist_id)
 VALUES
    (1, 'Aashiqui 2', '2013-04-25', 1),
   (2, 'Ae Dil Hai Mushkil', '2016-10-28', 2),
    (3, 'Kal Ho Naa Ho', '2003-11-27', 3),
    (4, 'Dilwale', '2015-12-18', 3),
   (5, 'Ram-Leela', '2013-11-15', 4),
    (6, 'Kabir Singh', '2019-06-21', 5),
    (7, 'Tiger Zinda Hai', '2017-12-22', 4),
    (8, 'Satyameva Jayate', '2018-08-15', 6),
```

```
(9, 'Aradhana', '1969-09-27', 7),
  (10, 'Kabhi Khushi Kabhie Gham', '2001-12-14', 3),
  (11, 'Lost Stories', '2012-04-30', 8),
  (12, 'Bajrangi Bhaijaan', '2015-07-17', 4),
  (13, 'Rockstar', '2011-11-11', 9),
  (14, 'Wake Up Sid', '2009-10-02', 10),
  (15, 'Raees', '2017-01-25', 11),
  (16, 'Rehnaa Hai Terre Dil Mein', '2001-10-19', 12),
  (17, 'Jab We Met', '2007-10-26', 13),
  (18, 'Azhar', '2016-05-13', 14),
  (19, 'Phir Hera Pheri', '2006-06-09', 15),
  (20, 'Yeh Jawaani Hai Deewani', '2013-05-31', 16);
select * from Albums;
CREATE TABLE User_Playlists (
  playlist id INT PRIMARY KEY,
  user id INT,
  playlist_name VARCHAR(255),
  creation_date DATE,
  FOREIGN KEY (user id) REFERENCES Users(user id)
);
DESC User_Playlists;
INSERT INTO User_Playlists (playlist_id, user_id, playlist_name,
creation date)
VALUES
  (1, 1, 'Favorites', '2024-04-25'),
  (2, 2, 'Chill Playlist', '2024-04-25'),
  (3, 3, 'Road Trip Mix', '2024-04-25'),
  (4, 4, 'Morning Vibes', '2024-04-25'),
  (5, 5, 'Workout Jams', '2024-04-25'),
  (6, 6, 'Relaxation Station', '2024-04-25'),
  (7, 7, 'Study Beats', '2024-04-25'),
  (8, 8, 'Party Playlist', '2024-04-25'),
  (9, 9, 'Throwback Hits', '2024-04-25'),
  (10, 10, 'Rainy Day Melodies', '2024-04-25'),
  (11, 11, 'Romantic Ballads', '2024-04-25'),
  (12, 12, 'Feel-Good Tunes', '2024-04-25'),
  (13, 13, 'Travel Playlist', '2024-04-25'),
  (14, 14, 'Emotional Rollercoaster', '2024-04-25'),
  (15, 15, 'Groovy Funk', '2024-04-25'),
  (16, 16, 'Indie Vibes', '2024-04-25'),
  (17, 17, 'Summer Anthems', '2024-04-25'),
  (18, 18, 'Late Night Jazz', '2024-04-25'),
  (19, 19, 'Soulful Rhythms', '2024-04-25'),
  (20, 20, 'EDM Extravaganza', '2024-04-25');
```

select * from User_Playlists;

```
CREATE TABLE Recommendations (
    recommendation_id INT PRIMARY KEY,
    user_id INT,
    song id INT,
    recommendation_date DATE,
    FOREIGN KEY (user_id) REFERENCES Users(user_id),
    FOREIGN KEY (song_id) REFERENCES Songs(song_id)
  );

    DESC Recommendations;
```

- INSERT INTO Recommendations (recommendation_id, user_id, song_id, recommendation_date)

```
VALUES
```

```
(1, 1, 1, '2024-04-25'),
(2, 1, 2, '2024-04-25'),
(3, 2, 3, '2024-04-25'),
(4, 2, 4, '2024-04-25'),
(5, 3, 5, '2024-04-25'),
(6, 3, 6, '2024-04-25'),
(7, 4, 7, '2024-04-25'),
(8, 4, 8, '2024-04-25'),
(9, 5, 9, '2024-04-25'),
(10, 5, 10, '2024-04-25'),
(11, 6, 11, '2024-04-25'),
(12, 6, 12, '2024-04-25'),
(13, 7, 13, '2024-04-25'),
(14, 7, 14, '2024-04-25'),
(15, 8, 15, '2024-04-25'),
(16, 8, 16, '2024-04-25'),
(17, 9, 17, '2024-04-25'),
(18, 9, 18, '2024-04-25'),
(19, 10, 19, '2024-04-25'),
(20, 10, 20, '2024-04-25');
```

select * from Recommendations;

5. Sub-Queries

- 1. Find the username of the user who registered first:
 - SELECT user_id, username, email,registration_date FROM Users WHERE registration_date = (SELECT MIN(registration_date)FROM Users);

user_id	username	email	registration_date
1	Ananya	ananya@example.com	4/25/2024
2	Aarav	aarav@example.com	4/25/2024
3	Advait	advait@example.com	4/25/2024
4	Ayesha	ayesha@example.com	4/25/2024
5	Dhruv	dhruv@example.com	4/25/2024
6	Ishaan	ishaan@example.com	4/25/2024
7	Kavya	kavya@example.com	4/25/2024
8	Neha	neha@example.com	4/25/2024
9	Nikhil	nikhil@example.com	4/25/2024
10	Priya	priya@example.com	4/25/2024
11	Rahul	rahul@example.com	4/25/2024
12	Sahil	sahil@example.com	4/25/2024
13	Tanvi	tanvi@example.com	4/25/2024
14	Yash	yash@example.com	4/25/2024
15	Aaradhya	aaradhya@example.com	4/25/2024
16	Arjun	arjun@example.com	4/25/2024
17	Avani	avani@example.com	4/25/2024
18	Devika	devika@example.com	4/25/2024
19	Ishika	ishika@example.com	4/25/2024
20	Kabir	kabir@example.com	4/25/2024
21	Meera	meera@example.com	4/25/2024
22	Rishi	rishi@example.com	4/25/2024
23	Ria	ria@example.com	4/25/2024
24	Rohan	rohan@example.com	4/25/2024
25	Sanya	sanya@example.com	4/25/2024
26	Shiv	shiv@example.com	4/25/2024
27	Tara	tara@example.com	4/25/2024
28	Aryan	aryan@example.com	4/25/2024
29	Avni	avni@example.com	4/25/2024
30	Vihaan	vihaan@example.com	4/25/2024

2. Retrieve the title of the album with the highest-rated song

SELECT album_id, album_title, release_date FROM Albums
 WHERE album_id = (SELECT album_id FROM Songs WHERE
 song_id = (SELECT song_id FROM Recommendations
 GROUP BY song_id ORDER BY COUNT(*) DESC LIMIT 1));

album_Id	album_title	release_date
1	Aashiqui 2	4/25/2013
2 Ae Dil Hai Mushkil		10/28/2016
3	Kal Ho Naa Ho	11/27/2003
4	Dilwale	12/18/2015
5	Ram-Leela	11/15/2013
6	Kabir Singh	6/21/2019
7	Tiger Zinda Hai	12/22/2017
8	Satyameva Jayate	8/15/2018
9	Aradhana	9/27/1969
10	Kabhi Khushi Kabhie	12/14/2001
	Gham	
11	Lost Stories	4/30/2012
12	Bajrangi Bhaijaan	7/17/2015
13	Rockstar	11/11/2011
14	Wake Up Sid	10/2/2009
15	Raees	1/25/2017
16	Rehnaa Hai Terre Dil	10/19/2001
	Mein	
17	Jab We Met	10/26/2007
18	Azhar	5/13/2016
19	Phir Hera Pheri	6/9/2006
20	Yeh Jawaani Hai	5/31/2013
	Deewani	

- 3. Retrieve the names of users who have not received any recommendations:
 - SELECT username FROM Users WHERE user_id NOT IN (SELECT DISTINCT user_id FROM Recommendations);

username
Rahul
Sahil
Tanvi
Yash
Aaradhya
Arjun
Avani
Devika
Ishika
Kabir
Meera
Rishi
Ria
Rohan
Sanya
Shiv
Tara
Aryan
Avni
Vihaan

- 4. Find all users who have created playlists
 - SELECT username FROM Users WHERE user_id IN (SELECT DISTINCT user_id FROM User_Playlists);

user_id	username
1	Ananya
2	Aarav
3	Advait
4	Ayesha
5	Dhruv
6	Ishaan
7	Kavya

8	Neha
9	Nikhil
10	Priya
11	Rahul
12	Sahil
13	Tanvi
14	Yash
15	Aaradhya
16	Arjun
17	Avani
18	Devika
19	Ishika
20	Kabir

- 5. Find all songs released by artists who belong to a specific genre:
 - SELECT song_title FROM Songs WHERE artist_id IN (SELECT artist_id FROM Artists WHERE genre = 'Bollywood');

song_title
Tum Hi Ho
Channa Mereya
Tujhe Kitna Chahne Lage
Kal Ho Naa Ho
Gerua
Suraj Hua Maddham
Jeene Laga Hoon
Dil Diyan Gallan
Tera Ban Jaunga
Dilbar
Mere Sapno Ki Rani
Tera Ghata
Tum Se Hi
Pehli Nazar Mein
Zara Zara
Bol Do Na Zara
Janam Janam
Tum Mile

- 6. Find the names of users who have not created any playlists.
 - SELECT username, user_id FROM Users WHERE user_id NOT IN (SELECT user_id FROM User_Playlists);

username	user_id
Meera	21
Rishi	22
Ria	23
Rohan	24
Sanya	25
Shiv	26
Tara	27
Aryan	28
Avni	29
Vihaan	30

6. JOINS

- 1. List all songs with their corresponding artists:
 - SELECT Songs.song_title, Artists.artist_name FROM Songs INNER JOIN Artists ON Songs.artist_id = Artists.artist_id;

song_title	artist_name
Tum Hi Ho	Arijit Singh
Channa Mereya	Arijit Singh
Kal Ho Naa Ho	Shreya Ghoshal
Gerua	A.R. Rahman
Jeene Laga Hoon	Atif Aslam
Tera Ban Jaunga	Sunidhi Chauhan
Dil Diyan Gallan	Atif Aslam
Dilbar	Neha Kakkar
Mere Sapno Ki Rani	Sonu Nigam
Suraj Hua Maddham	A.R. Rahman
Tera Ghata	Lata Mangeshkar
Tujhe Kitna Chahne	Arijit Singh
Lage	
Tum Se Hi	Armaan Malik
Iktara	Nusrat Fateh Ali Khan
Afreen Afreen	Rahat Fateh Ali Khan
Pehli Nazar Mein	Amit Trivedi
Zara Zara	Mohit Chauhan
Bol Do Na Zara	Shaan
Janam Janam	Udit Narayan
Tum Mile	Javed Ali

- 2. Retrieve all songs, including those without an associated album.
 - SELECT Songs.song_id, Songs.song_title, Songs.duration, Songs.artist_id, Albums.album_id FROM Songs LEFT JOIN Albums ON Songs.song_id = Albums.album_id;

song_id	song_title	duration	artist_id	album_id
1	Tum Hi Ho	0:04:24	1	1
2	Channa Mereya	0:04:49	1	2
3	Kal Ho Naa Ho	0:05:21	2	3
4	Gerua	0:04:47	3	4
5	Jeene Laga Hoon	0:03:52	4	5
6	Tera Ban Jaunga	0:03:56	5	6
7	Dil Diyan Gallan	0:04:21	4	7
8	Dilbar	0:02:45	6	8
9	Mere Sapno Ki Rani	0:04:46	7	9
10	Suraj Hua Maddham	0:07:05	3	10
11	Tera Ghata	0:02:44	8	11
	Tujhe Kitna Chahne			
12	Lage	0:04:42	1	12
13	Tum Se Hi	0:04:35	9	13
14	Iktara	0:04:13	10	14
15	Afreen Afreen	0:06:45	11	15
16	Pehli Nazar Mein	0:05:27	12	16
17	Zara Zara	0:05:30	13	17
18	Bol Do Na Zara	0:04:53	14	18
19	Janam Janam	0:03:59	15	19
20	Tum Mile	0:05:33	16	20

- 3. Show all recommendations made to users, including recommendations where the associated user has been deleted.
 - SELECT Recommendations.recommendation_id, Recommendations.user_id, Recommendations.song_id, Recommendations.recommendation_date

FROM Users

Right JOIN Recommendations ON Users.user_id=Recommendations.user_id;

recommend	user_id	song_id	recommendation_date
ation_id			
1	1	1	4/25/2024
2	1	2	4/25/2024
3	2	3	4/25/2024
4	2	4	4/25/2024
5	3	5	4/25/2024
6	3	6	4/25/2024
7	4	7	4/25/2024
8	4	8	4/25/2024
9	5	9	4/25/2024
10	5	10	4/25/2024
11	6	11	4/25/2024
12	6	12	4/25/2024
13	7	13	4/25/2024
14	7	14	4/25/2024
15	8	15	4/25/2024
16	8	16	4/25/2024
17	9	17	4/25/2024
18	9	18	4/25/2024
19	10	19	4/25/2024
20	10	20	4/25/2024

- 4. Retrieve all songs and their corresponding artists' names, including songs without an associated artist and artists without any songs
 - SELECT Songs.song_id, Songs.song_title, Artists.artist_name
 FROM Songs
 left JOIN Artists ON Songs.artist_id = Artists.artist_id
 union
 SELECT Songs.song_id, Songs.song_title, Artists.artist_name
 FROM Songs
 Right JOIN Artists ON Songs.artist_id = Artists.artist_id;

song_id	song_title	artist_name
1	Tum Hi Ho	Arijit Singh
2	Channa Mereya	Arijit Singh
3	Kal Ho Naa Ho	Shreya Ghoshal
4	Gerua	A.R. Rahman
5	Jeene Laga Hoon	Atif Aslam
6	Tera Ban Jaunga	Sunidhi Chauhan
7	Dil Diyan Gallan	Atif Aslam
8	Dilbar	Neha Kakkar
9	Mere Sapno Ki Rani	Sonu Nigam
10	Suraj Hua Maddham	A.R. Rahman
11	Tera Ghata	Lata Mangeshkar
12	Tujhe Kitna Chahne	Arijit Singh
	Lage	
13	Tum Se Hi	Armaan Malik
14	Iktara	Nusrat Fateh Ali Khan
15	Afreen Afreen	Rahat Fateh Ali Khan
16	Pehli Nazar Mein	Amit Trivedi
17	Zara Zara	Mohit Chauhan
18	Bol Do Na Zara	Shaan
19	Janam Janam	Udit Narayan
20	Tum Mile	Javed Ali
NULL	NULL	K.K.
NULL	NULL	Asees Kaur
NULL	NULL	Pritam
NULL	NULL	Ankit Tiwari

- 5. .Generate a list of all possible combinations of songs and artists, regardless of whether they are related or not.
 - SELECT Songs.song_title, Artists.artist_name FROM Songs CROSS JOIN Artists;

song_title	artist name
Tum Mile	Arijit Singh
Janam Janam	
	Arijit Singh
Bol Do Na Zara	Arijit Singh
Zara Zara	Arijit Singh
Pehli Nazar Mein	Arijit Singh
Afreen Afreen	Arijit Singh
Iktara	Arijit Singh
Tum Se Hi	Arijit Singh
Tujhe Kitna Chahne	
Lage	Arijit Singh
Tera Ghata	Arijit Singh
Tum Mile	Shreya Ghoshal
Janam Janam	Shreya Ghoshal
Bol Do Na Zara	Shreya Ghoshal
Zara Zara	Shreya Ghoshal
Pehli Nazar Mein	Shreya Ghoshal
Afreen Afreen	Shreya Ghoshal
Iktara	Shreya Ghoshal
Tum Se Hi	Shreya Ghoshal
Tujhe Kitna Chahne	
Lage	Shreya Ghoshal
Tum Mile	A.R. Rahman
Janam Janam	A.R. Rahman
Bol Do Na Zara	A.R. Rahman
Zara Zara	A.R. Rahman
Pehli Nazar Mein	A.R. Rahman
Afreen Afreen	A.R. Rahman
Iktara	A.R. Rahman
Tum Se Hi	A.R. Rahman
Tujhe Kitna Chahne	-
Lage	A.R. Rahman

7.OTHER QUESTIONS

- 1. Retrieve all artists whose names start with a certain letter or letters
 - SELECT * FROM Artists WHERE artist_name LIKE 'A%';

ANS:

artist_id	artist_name	genre
1	Arijit Singh	Bollywood
3	A.R.	Bollywood
	Rahman	
4	Atif Aslam	Bollywood
9 Armaan		Bollywood
	Malik	
12	Amit Trivedi	Bollywood
18	Asees Kaur	Bollywood
20	Ankit Tiwari	Bollywood

- 2. Find all songs with titles containing a specific word or phrase
 - SELECT * FROM Songs WHERE song_title LIKE 'T%';

song_id	song_title	duration	artist_id
1	Tum Hi Ho	0:04:24	1
6	Tera Ban Jaunga	0:03:56	5
11	Tera Ghata	0:02:44	8
12	Tujhe Kitna Chahne	0:04:42	1
	Lage		
13	Tum Se Hi	0:04:35	9
20	Tum Mile	0:05:33	16

- 3. Retrieve all songs with durations between two specific values:
 - SELECT * FROM Songs WHERE duration BETWEEN '00:03:00' AND '00:05:00';

song_id	song_title	duration	artist_id
1	Tum Hi Ho	0:04:24	1
2	Channa Mereya	0:04:49	1
4	Gerua	0:04:47	3
5	Jeene Laga Hoon	0:03:52	4
6	Tera Ban Jaunga	0:03:56	5
7	Dil Diyan Gallan	0:04:21	4
9	Mere Sapno Ki Rani	0:04:46	7
12	Tujhe Kitna Chahne	0:04:42	1
	Lage		
13	Tum Se Hi	0:04:35	9
14	Iktara	0:04:13	10
18	Bol Do Na Zara	0:04:53	14
19	Janam Janam	0:03:59	15