

Challenge 5: Karaoke

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COMPUTER PROGRAMMING > INTRO TO SQL: QUERYING AND MANAGING DATA

More advanced SQL queries

More complex queries with AND/OR

Challenge: Karaoke song selector

Querying IN subqueries

Challenge: Playlist maker

Restricting grouped results with HAVING

Challenge: The wordiest author

Who issues SQL queries?

Challenge: Karaoke song selector

Step 1

Ever sung karaoke? It's a place where you sing songs with your friends, and it's a lot of fun. We've created a table with songs, and in this challenge, you'll use queries to decide what songs to sing. For the first step, select all the song titles.

1 CREATE TABLE songs (
2 id INTEGER PRIMARY KEY,
3 title TEXT,
4 artist TEXT,
5 mood TEXT,
6 duration INTEGER,
7 released INTEGER);
8
9 INSERT INTO songs (title, artist, mood,
10 duration, released)
11 VALUES ("Bohemian Rhapsody", "Queen",
12 "epic", 60, 1975);
13 INSERT INTO songs (title, artist, mood,
14 duration, released)
15 VALUES ("Let it go", "Idina Menzel", "epic", 227, 2013);
16 INSERT INTO songs (title, artist, mood, duration, released)
17 VALUES ("I will survive", "Gloria Gaynor", "epic", 198, 1978);
18 INSERT INTO songs (title, artist, mood, duration, released)
19 VALUES ("Twist and Shout", "The Beatles", "happy", 152, 1963);
20 INSERT INTO songs (title, artist, mood, duration, released)
21 VALUES ("La Bamba", "Ritchie Valens", "happy", 166, 1958);
22 INSERT INTO songs (title, artist, mood, duration, released)
23 VALUES ("I will always love you", "Whitney Houston", "epic", 273, 1992);
24 INSERT INTO songs (title, artist, mood, duration, released)
25 VALUES ("Sweet Caroline", "Neil Diamond", "happy", 201, 1969);
26 INSERT INTO songs (title, artist, mood, duration, released)
27 VALUES ("Call me maybe", "Carly Rae Jepsen", "happy", 193, 2011);

DATABASE SCHEMA

songs

8 rows

id (PK)

INTEGER

title

TEXT

artist

TEXT

mood

TEXT

duration

INTEGER

released

INTEGER

RESULTS

Congratulations!
You earned 2100 points!

Maybe your friends only like singing either recent songs or truly epic songs. Add another `SELECT` that uses `OR` to show the titles of the songs that have an 'epic' mood or a release date after 1990.

CREATE TABLE songs (
id INTEGER PRIMARY KEY,
title TEXT,
artist TEXT,
mood TEXT,
duration INTEGER,
released INTEGER);

INSERT INTO songs (title, artist, mood, duration, released)
VALUES ("Bohemian Rhapsody", "Queen", "epic", 60, 1975);
INSERT INTO songs (title, artist, mood, duration, released)
VALUES ("Let it go", "Idina Menzel", "epic", 227, 2013);
INSERT INTO songs (title, artist, mood, duration, released)
VALUES ("I will survive", "Gloria Gaynor", "epic", 198, 1978);
INSERT INTO songs (title, artist, mood, duration, released)
VALUES ("Twist and Shout", "The Beatles", "happy", 152, 1963);
INSERT INTO songs (title, artist, mood, duration, released)
VALUES ("La Bamba", "Ritchie Valens", "happy", 166, 1958);
INSERT INTO songs (title, artist, mood, duration, released)
VALUES ("I will always love you", "Whitney Houston", "epic", 273, 1992);
INSERT INTO songs (title, artist, mood, duration, released)
VALUES ("Sweet Caroline", "Neil Diamond", "happy", 201, 1969);
INSERT INTO songs (title, artist, mood, duration, released)
VALUES ("Call me maybe", "Carly Rae Jepsen", "happy", 193, 2011);

SELECT title FROM songs;

SELECT title FROM songs WHERE mood = 'epic';

/* OR */
/*SELECT title FROM songs WHERE released >1990;*/

SELECT title, artist, duration FROM songs WHERE
mood = 'epic' AND
released >1990 AND duration <240;

DATABASE SCHEMA

songs

8 rows

id (PK)

INTEGER

title

TEXT

artist

TEXT

mood

TEXT

duration

INTEGER

released

INTEGER

RESULTS

title

Bohemian Rhapsody

Let it go

I will survive

Twist and Shout

La Bamba

I will always love you

Sweet Caroline

Call me maybe

title

Bohemian Rhapsody

Let it go

I will survive

I will always love you

title

artist

duration

Let it go

Idina Menzel

227

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