## **Database Schema: Tables**

Kaggle: https://www.kaggle.com/datasets/nadintamer/top-spotify-tracks-of-2018

```
sqlite> .schema
CREATE TABLE songs (
    id INTEGER,
    name TEXT,
artist_id INTEGER,
    danceability REAL,
    energy REAL,
    key INTEGER,
    loudness REAL,
    speechiness REAL,
    valence REAL,
    tempo REAL,
    duration_ms INTEGER
CREATE TABLE artists (
    id INTEGER,
    name TEXT
);____
```

## Table: songs

id	name	artist_id	danceability	energy	key	loudness	speechiness	valence	tempo	duration_ms
22	Te Bote - Remix	49	0.903	0.675	11	-3.445	0.214	0.442	96.507	417920
43	SICKO MODE	64	0.834	0.73	8	-3.714	0.222	0.446	155.008	312820
74	Walk It Talk It	45	0.909	0.628	2	-5.456	0.201	0.406	145.905	276147
75	Him & I (with Halsey)	28	0.589	0.731	2	-6.343	0.0868	0.191	87.908	268867
30	Perfect	26	0.599	0.448	8	-6.312	0.0232	0.168	95.05	263400

## **Table: artists**

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id	name					
1	5 Seconds of Summer					
j 2	6ix9ine					
j 3	Anitta					
j 4	Anne-Marie					
5	Ariana Grande					
6	Bazzi					
j 7	Bebe Rexha					
8	Becky G					
9	benny blanco					
10	Billie Eilish					
11	BlocBoy JB					
12	Bruno Mars					
13	Calvin Harris					
14	Camila Cabello					
15	Cardi B					

- 1. SQL query to list the names of all songs in the database.
  - Query should output a table with a single column for the name of each song.
    - 1. SELECT name FROM songs;
- 2. SQL query to list the names of all songs in increasing order of tempo.
  - Query should output a table with a single column for the name of each song.
    - SELECT name FROM songs ORDER BY tempo;
- 3. SQL query to list the names of the top 5 longest songs, in descending order of length.
  - Query should output a table with a single column for the name of each song.
    - 1. SELECT name FROM songs ORDER BY duration\_ms DESC LIMIT 5;
- 4. SQL query that lists names of any songs that have danceability, energy, and valence greater than 0.75.
  - Query should output a table with a single column for the name of each song.
    - SELECT name FROM songs WHERE danceability > 0.75 AND energy > 0.75 AND valence > 0.75;
- 5. SQL query that returns the average energy of all the songs.
  - Query should output a table with a single column and a single row containing the avg energy.
    - 1. SELECT AVG(energy) FROM songs;
- 6. SQL query that lists the names of songs that are by Post Malone.
  - Query should output a table with a single column for the name of each song.
  - You should not make any assumptions about what Post Malone's artist\_id is.
    - SELECT name FROM songs WHERE artist\_id = (SELECT id FROM artists WHERE name = 'Post Malone');
- 7. SQL query that returns the average energy of songs that are by Drake.
  - Query should output a table with a single column and single row containing the average energy.
  - You should not make any assumptions about what Drake's artist\_id is.
    - SELECT AVG(energy) FROM songs WHERE artist\_id = (SELECT id FROM artists WHERE name = 'Drake');
- 8. SQL query that lists the names of the songs that feature other artists.
  - o Songs that feature other artists will include "feat." in the name of the song.
  - o Your query should output a table with a single column for the name of each song.
    - 1. SELECT name FROM songs WHERE name LIKE '%feat.%';