CREATE DATABASE

```
-- DROP DATABASE IF EXISTS spotify project;
CREATE DATABASE spotify_project
  WITH
  OWNER = postgres
  ENCODING = 'UTF8'
  LC COLLATE = 'C'
  LC_CTYPE = 'C'
  TABLESPACE = pg_default
  CONNECTION LIMIT = -1
  IS_TEMPLATE = False;
DROP TABLE Master:
CREATE TABLE Master (
 album id VARCHAR(50),
 album_name TEXT NOT NULL,
 album release date DATE,
 album album type TEXT,
 album_available_markets TEXT,
 track_duration_ms INTEGER,
 track id VARCHAR(50),
 track name TEXT NOT NULL,
 track popularity INTEGER,
 track_track_number INTEGER,
 track available markets TEXT,
 artists id VARCHAR(50),
 artists name TEXT NOT NULL,
 artists_spotify_url TEXT,
 available markets TEXT
);
IMPORT DATA
```

Manually imported Data by right clicking on 'master' table and selecting the Import/Export feature.

CREATE TABLES

```
drop table Album; create table Album as SELECT DISTINCT album_id, album_name, album_release_date, album_album_type, album_available_markets
```

FROM Master: drop table Track; create table Track as SELECT DISTINCT track id, track name, track popularity, track duration_ms, track_available_markets FROM Master: drop table artists; create table artists as SELECT DISTINCT artists id, artists name, artists spotify url FROM Master; drop album artists track; create table album artists track as SELECT DISTINCT album id, artists id, track id, track_track_number,available_markets FROM Master: ALTER TABLE album ADD PRIMARY KEY (album_id); ALTER TABLE artists ADD PRIMARY KEY (artists id); ALTER TABLE track ADD PRIMARY KEY (track_id); ALTER TABLE album artists track ADD PRIMARY KEY (album id, artists id, track id); ALTER TABLE album_artists_track ADD CONSTRAINT fk aat album FOREIGN KEY (album id) REFERENCES album (album id); ADD CONSTRAINT fk_aat_artists FOREIGN KEY (artists_id) REFERENCES artists (artists id), ADD CONSTRAINT fk_aat_track FOREIGN KEY (track_id) REFERENCES track (track_id);

DROP TABLE Master;

PROJECT AND INSIGHTS

According to API guidelines, popularity is calculated by algorithm and is based, in the most part, on the total number of plays the track has had and how recent those plays are.

Let's look at the songs with high popularity.

How many are there? Who are the artists that made those songs?

```
select track_name
from track
where track_popularity > 80;
select count(track_name)
from track
```

```
where track popularity > 80;
select track name, artists name
from track join album_artists_track using (track_id) join artists using(artists_id)
where track popularity > 80;
select distinct artists name
from track join album_artists_track using (track_id) join artists using(artists_id)
where track popularity > 80;
–How many artists worked on those 13 songs?
select count(distinct artists name)
from track join album_artists_track using (track_id) join artists using(artists_id)
where track popularity > 80;
-Which song is the most popular? Who made it? How many songs does this artist have on the
playlist?
select track name
from track join album_artists_track using (track_id) join artists using(artists_id)
where track popularity > 80
order by track popularity desc
limit 1;
select artists_name
from track join album artists track using (track id) join artists using(artists id)
where track popularity > 80
order by track_popularity desc
limit 1;
select count(track id)
from album artists track
where artists id = (select artists id
from track join album_artists_track using (track_id)
where track popularity > 80
order by track_popularity desc
limit 1);
```

Which artists have the most tracks on that playlist I extracted? Let's look at the 3 first ones

select artists_name, count(track_id) as number_of_songs from album_artists_track join artists using (artists_id) group by artists_name order by number_of_songs desc limit 3;

Featurings

select array_agg(artists_name) as featurings
from album_artists_track join artists using (artists_id) join track using (track_id)
where track_id in
(select track_id
from album_artists_track
group by track_id
having count(artists_id) > 1)
group by track_name;

DROPPING ALL THE TABLES

DROP TABLE album_artists_track;

DROP TABLE album;

DROP TABLE track;

DROP TABLE artists;

DROP DATABASE spotify_project;