SQL Create

-- Created by Vertabelo (http://vertabelo.com)  
-- Last modification date: 2025-01-06 13:43:52.165  
  
-- tables  
-- Table: album  
CREATE TABLE album (  
 id int NOT NULL AUTO\_INCREMENT,  
 name varchar(50) NOT NULL,  
 release\_date date NOT NULL,  
 picture\_link varchar(2048) NULL,  
 CONSTRAINT album\_pk PRIMARY KEY (id)  
);  
  
-- Table: album\_artist  
CREATE TABLE album\_artist (  
 artist\_id int NOT NULL,  
 album\_id int NOT NULL,  
 CONSTRAINT album\_artist\_pk PRIMARY KEY (artist\_id,album\_id)  
);  
  
-- Table: album\_genre  
CREATE TABLE album\_genre (  
 genre\_id int NOT NULL,  
 album\_id int NOT NULL,  
 CONSTRAINT album\_genre\_pk PRIMARY KEY (genre\_id,album\_id)  
);  
  
-- Table: artist  
CREATE TABLE artist (  
 id int NOT NULL AUTO\_INCREMENT,  
 name varchar(50) NOT NULL,  
 country\_id int NULL,  
 CONSTRAINT artist\_pk PRIMARY KEY (id)  
);  
  
-- Table: country  
CREATE TABLE country (  
 id int NOT NULL AUTO\_INCREMENT,  
 name varchar(50) NOT NULL,  
 CONSTRAINT country\_pk PRIMARY KEY (id)  
);  
  
-- Table: genre  
CREATE TABLE genre (  
 id int NOT NULL AUTO\_INCREMENT,  
 name varchar(50) NOT NULL,  
 CONSTRAINT id PRIMARY KEY (id)  
);  
  
-- Table: top\_albums  
CREATE TABLE top\_albums (  
 album\_id int NOT NULL,  
 CONSTRAINT top\_albums\_pk PRIMARY KEY (album\_id)  
);  
  
-- Table: user  
CREATE TABLE user (  
 id int NOT NULL AUTO\_INCREMENT,  
 email varchar(50) NOT NULL UNIQUE,  
 password nvarchar(256) NOT NULL,  
 role varchar(50) NOT NULL,  
 CONSTRAINT user\_pk PRIMARY KEY (id)  
);  
  
-- Table: user\_albums  
CREATE TABLE user\_albums (  
 id int NOT NULL AUTO\_INCREMENT,  
 album\_id int NOT NULL,  
 user\_id int NOT NULL,  
 rating int NULL,  
 info varchar(500) NULL,  
 CONSTRAINT user\_albums\_pk PRIMARY KEY (id)  
);  
  
-- foreign keys  
-- Reference: AlbumArtist\_album (table: album\_artist)  
ALTER TABLE album\_artist ADD CONSTRAINT AlbumArtist\_album FOREIGN KEY AlbumArtist\_album (album\_id)  
 REFERENCES album (id);  
  
-- Reference: AlbumArtist\_artist (table: album\_artist)  
ALTER TABLE album\_artist ADD CONSTRAINT AlbumArtist\_artist FOREIGN KEY AlbumArtist\_artist (artist\_id)  
 REFERENCES artist (id);  
  
-- Reference: album\_genre\_album (table: album\_genre)  
ALTER TABLE album\_genre ADD CONSTRAINT album\_genre\_album FOREIGN KEY album\_genre\_album (album\_id)  
 REFERENCES album (id);  
  
-- Reference: album\_genre\_genre (table: album\_genre)  
ALTER TABLE album\_genre ADD CONSTRAINT album\_genre\_genre FOREIGN KEY album\_genre\_genre (genre\_id)  
 REFERENCES genre (id);  
  
-- Reference: artist\_country (table: artist)  
ALTER TABLE artist ADD CONSTRAINT artist\_country FOREIGN KEY artist\_country (country\_id)  
 REFERENCES country (id);  
  
-- Reference: top\_albums\_album (table: top\_albums)  
ALTER TABLE top\_albums ADD CONSTRAINT top\_albums\_album FOREIGN KEY top\_albums\_album (album\_id)  
 REFERENCES album (id);  
  
-- Reference: user\_album\_album (table: user\_albums)  
ALTER TABLE user\_albums ADD CONSTRAINT user\_album\_album FOREIGN KEY user\_album\_album (album\_id)  
 REFERENCES album (id);  
  
-- Reference: user\_album\_user (table: user\_albums)  
ALTER TABLE user\_albums ADD CONSTRAINT user\_album\_user FOREIGN KEY user\_album\_user (user\_id)  
 REFERENCES user (id);  
  
-- End of file.

SQL Insert  
-- Albumy  
Insert into album(name,release\_date,picture\_link)  
values ('3D Country','2022-06-23', 'https://ecsmedia.pl/c/3d-country-plyta-winylowa-b-iext168196723.jpg');  
  
Insert into album(name,release\_date,picture\_link)  
values ('Coney Island Baby','1975-12-01','https://upload.wikimedia.org/wikipedia/en/1/17/Reed\_Coney.jpg');  
  
Insert into album(name,release\_date,picture\_link)  
values ('Rubber Soul', '1965-12-03','https://upload.wikimedia.org/wikipedia/en/5/5b/Rubber\_Soul.png');  
  
Insert into album(name,release\_date,picture\_link)  
values ('Imaginal Disk', '2024-08-23','https://upload.wikimedia.org/wikipedia/en/4/4b/Magdalena\_Bay\_-\_Imaginal\_Disk.png');  
  
Insert into album(name,release\_date,picture\_link)  
values ('Mercurial World', '2021-08-08','https://upload.wikimedia.org/wikipedia/en/b/b9/Mercurial\_World.jpeg');  
  
Insert into album(name,release\_date,picture\_link)  
values ('Revolver', '1966-08-05','https://upload.wikimedia.org/wikipedia/en/e/ec/Revolver\_%28album\_cover%29.jpg');  
  
Insert into album(name,release\_date,picture\_link)  
values ('Abbey Road', '1969-09-26','https://upload.wikimedia.org/wikipedia/en/4/42/Beatles\_-\_Abbey\_Road.jpg');  
  
Insert into album(name,release\_date,picture\_link)  
values ('No Name', '2024-07-19','https://upload.wikimedia.org/wikipedia/en/8/86/Jack\_White\_-\_No\_Name\_cover\_art.jpg');  
  
  
Insert into album(name,release\_date,picture\_link)  
values ('Amnesiac', '2024-05-30','https://upload.wikimedia.org/wikipedia/en/8/8c/Radiohead\_-\_Amnesiac\_cover.png');  
  
Insert into album(name,release\_date,picture\_link)  
values ('OK Computer', '1997-04-16','https://upload.wikimedia.org/wikipedia/en/b/ba/Radioheadokcomputer.png');  
  
Insert into album(name,release\_date,picture\_link)  
values ('In Rainbows', '2007-09-10','https://ecsmedia.pl/c/in-rainbows-b-iext120971159.jpg');  
  
-- Kraje  
Insert into country(name)  
values ('USA');  
  
Insert into country(name)  
values ('UK');  
  
-- Artysci  
Insert into artist(name,country\_id)  
values ('Geese',(Select id from country where name = 'USA'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'Geese'),(SELECT id from album where name = '3D Country'));  
  
Insert into artist(name,country\_id)  
values ('The Beatles',(Select id from country where name = 'UK'));  
  
Insert into artist(name,country\_id)  
values ('Radiohead',(Select id from country where name = 'UK'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'The Beatles'),(SELECT id from album where name = 'Rubber Soul'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'The Beatles'),(SELECT id from album where name = 'Revolver'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'The Beatles'),(SELECT id from album where name = 'Abbey Road'));  
  
Insert into artist(name,country\_id)  
values ('Lou Reed',(Select id from country where name = 'USA'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'Lou Reed'),(SELECT id from album where name = 'Coney Island Baby'));  
  
Insert into artist(name,country\_id)  
values ('Magdalena Bay',(Select id from country where name = 'USA'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'Magdalena Bay'),(SELECT id from album where name = 'Imaginal Disk'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'Magdalena Bay'),(SELECT id from album where name = 'Mercurial World'));  
  
Insert into artist(name,country\_id)  
values ('Jack White',(Select id from country where name = 'USA'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'Jack White'),(SELECT id from album where name = 'No Name'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'Radiohead'),(SELECT id from album where name = 'Amnesiac'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'Radiohead'),(SELECT id from album where name = 'OK Computer'));  
  
Insert into album\_artist(artist\_id, album\_id)  
VALUES ((SELECT id from artist where name = 'Radiohead'),(SELECT id from album where name = 'In Rainbows'));  
  
  
-- Gatunki  
INSERT INTO genre(name)  
values ('Rock');  
  
INSERT INTO genre(name)  
values ('Blues Rock');  
  
INSERT INTO genre(name)  
values ('Synth-pop');  
  
INSERT INTO genre(name)  
values ('Psychedelic Rock');  
  
-- Album\_Genre  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Blues Rock'),(SELECT id from album where name = '3D Country'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Rock'),(SELECT id from album where name = 'Coney Island Baby'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Rock'),(SELECT id from album where name = 'Rubber Soul'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Rock'),(SELECT id from album where name = 'Revolver'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Rock'),(SELECT id from album where name = 'Abbey Road'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Psychedelic Rock'),(SELECT id from album where name = 'Revolver'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Synth-pop'),(SELECT id from album where name = 'Imaginal Disk'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Synth-pop'),(SELECT id from album where name = 'Mercurial World'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Blues Rock'),(SELECT id from album where name = 'No Name'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Rock'),(SELECT id from album where name = 'Amnesiac'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Rock'),(SELECT id from album where name = 'OK Computer'));  
  
INSERT INTO album\_genre(genre\_id, album\_id)  
values ((SELECT id from genre where name = 'Rock'),(SELECT id from album where name = 'In Rainbows'));  
  
-- Top\_albums  
INSERT INTO top\_albums(album\_id)  
values ((select id from album where name = 'OK Computer'));  
  
INSERT INTO top\_albums(album\_id)  
values ((select id from album where name = 'Abbey Road'));  
  
INSERT INTO top\_albums(album\_id)  
values ((select id from album where name = 'No Name'));  
  
INSERT INTO top\_albums(album\_id)  
values ((select id from album where name = 'Imaginal Disk'));  
  
INSERT INTO top\_albums(album\_id)  
values ((select id from album where name = 'In Rainbows'));  
  
# user  
  
INSERT INTO user(email, password, role)  
values ('alek@wp.pl','$2b$12$EVry7xKQBMj1DWzq6m6CouUrCSd88GVcWmSVUykUzy5PXE5pL/Ioq','user');  
  
INSERT INTO user(email, password, role)  
values ('admin@wp.pl','$2b$12$4dEJhLvjbrQypQ0.QgRcyuez0bcxlQFL2dxM96BsPv3fJH/LBKulC','admin');  
  
# user\_albums  
  
INSERT INTO user\_albums(album\_id, user\_id, rating, info)  
VALUES (1,1,9,'fangjgnagjdgnajgneajg agaegnagnangag agaegnagjne');  
  
INSERT INTO user\_albums(album\_id, user\_id, rating, info)  
VALUES (2,1,7,'fgsgsgangsggne');  
  
INSERT INTO user\_albums(album\_id, user\_id, rating, info)  
VALUES (3,1,5,'gsgsgsgsggnagjne');  
  
INSERT INTO user\_albums(album\_id, user\_id, rating, info)  
VALUES (4,1,2,'ajgneajg agaagaegnagjne');  
  
INSERT INTO user\_albums(album\_id, user\_id, rating, info)  
VALUES (5,1,3,'sgsgsgsseg');  
  
INSERT INTO user\_albums(album\_id, user\_id, rating, info)  
VALUES (6,1,3,'opissafjgagkg');

SQL procedura  
CREATE PROCEDURE *AddAlbumToCollection*(  
 IN userId INT,  
 IN albumName VARCHAR(50),  
 IN releaseDate DATE,  
 IN pictureLink VARCHAR(2048),  
 IN genres TEXT,   
 IN artists TEXT,   
 IN rating INT,  
 IN info VARCHAR(500)  
)  
BEGIN  
 DECLARE albumId INT;  
 DECLARE genreId INT;  
 DECLARE artistId INT;  
 DECLARE currentGenre VARCHAR(50);  
 DECLARE currentArtist VARCHAR(50);  
 DECLARE genrePosition INT DEFAULT 0;  
 DECLARE artistPosition INT DEFAULT 0;  
  
 -- Sprawdzenie, czy album już istnieje  
 SELECT id INTO albumId  
 FROM album  
 WHERE name = albumName AND release\_date = releaseDate;  
  
 IF albumId IS NULL THEN  
 -- Tworzenie nowego albumu  
 INSERT INTO album (name, release\_date, picture\_link)  
 VALUES (albumName, releaseDate, pictureLink);  
  
 SET albumId = *LAST\_INSERT\_ID*();  
 END IF;  
  
 -- Przetwarzanie gatunków   
 SET genrePosition = *LOCATE*(',', genres);  
 WHILE genrePosition > 0 DO  
 SET currentGenre = *TRIM*(*SUBSTRING\_INDEX*(genres, ',', 1));  
 SET genres = *TRIM*(*SUBSTRING*(genres FROM genrePosition + 1));  
 SET genrePosition = *LOCATE*(',', genres);  
  
 -- Sprawdzenie, czy gatunek istnieje  
 SELECT id INTO genreId  
 FROM genre  
 WHERE name = currentGenre;  
  
 IF genreId IS NULL THEN  
 INSERT INTO genre (name) VALUES (currentGenre);  
 SET genreId = *LAST\_INSERT\_ID*();  
 END IF;  
  
 -- Przypisanie gatunku do albumu  
 INSERT IGNORE INTO album\_genre (album\_id, genre\_id)  
 VALUES (albumId, genreId);  
 END WHILE;  
  
 -- Dodanie ostatniego gatunku (lub jedynego, jeśli nie było przecinków)  
 IF genres != '' THEN  
 SET currentGenre = *TRIM*(genres);  
  
 SELECT id INTO genreId  
 FROM genre  
 WHERE name = currentGenre;  
  
 IF genreId IS NULL THEN  
 INSERT INTO genre (name) VALUES (currentGenre);  
 SET genreId = *LAST\_INSERT\_ID*();  
 END IF;  
  
 INSERT IGNORE INTO album\_genre (album\_id, genre\_id)  
 VALUES (albumId, genreId);  
 END IF;  
  
 -- Przetwarzanie artystów  
 SET artistPosition = *LOCATE*(',', artists);  
 WHILE artistPosition > 0 DO  
 SET currentArtist = *TRIM*(*SUBSTRING\_INDEX*(artists, ',', 1));  
 SET artists = *TRIM*(*SUBSTRING*(artists FROM artistPosition + 1));  
 SET artistPosition = *LOCATE*(',', artists);  
  
 -- Sprawdzenie, czy artysta istnieje  
 SELECT id INTO artistId  
 FROM artist  
 WHERE name = currentArtist;  
  
 IF artistId IS NULL THEN  
 INSERT INTO artist (name) VALUES (currentArtist);  
 SET artistId = *LAST\_INSERT\_ID*();  
 END IF;  
  
 -- Przypisanie artysty do albumu  
 INSERT IGNORE INTO album\_artist (album\_id, artist\_id)  
 VALUES (albumId, artistId);  
 END WHILE;  
  
 -- Dodanie ostatniego artysty (lub jedynego, jeśli nie było przecinków)  
 IF artists != '' THEN  
 SET currentArtist = *TRIM*(artists);  
  
 SELECT id INTO artistId  
 FROM artist  
 WHERE name = currentArtist;  
  
 IF artistId IS NULL THEN  
 INSERT INTO artist (name) VALUES (currentArtist);  
 SET artistId = *LAST\_INSERT\_ID*();  
 END IF;  
  
 INSERT IGNORE INTO album\_artist (album\_id, artist\_id)  
 VALUES (albumId, artistId);  
 END IF;  
  
 -- Dodanie do kolekcji użytkownika  
 INSERT INTO user\_albums (album\_id, user\_id, rating, info)  
 VALUES (albumId, userId, rating, info);  
  
END;

**Docker**

docker run --name mysql\_db -e MYSQL\_ROOT\_PASSWORD=rootpassword -e MYSQL\_DATABASE=vinyl\_db -e MYSQL\_USER=my\_user -e MYSQL\_PASSWORD=password -p 3306:3306 -d mysql:8.0

Strona główna (gość)

Obraz zawierający zrzut ekranu, tekst, Oprogramowanie multimedialne, oprogramowanie

Opis wygenerowany automatycznie

Strona główna (user)

Obraz zawierający zrzut ekranu, tekst, Oprogramowanie multimedialne, oprogramowanie

Opis wygenerowany automatycznie

Baza albumów(gość, user)

Obraz zawierający tekst, zrzut ekranu, oprogramowanie, Oprogramowanie multimedialne

Opis wygenerowany automatycznieTwoje albumy(gość)

Obraz zawierający zrzut ekranu, tekst, oprogramowanie, Oprogramowanie multimedialne

Opis wygenerowany automatycznie

Twoje albumy (user)

Obraz zawierający zrzut ekranu, tekst, Oprogramowanie multimedialne, oprogramowanie

Opis wygenerowany automatycznie

Logowanie(gość)

Obraz zawierający zrzut ekranu, tekst, oprogramowanie, Oprogramowanie multimedialne

Opis wygenerowany automatycznie

Logowanie (user)

Obraz zawierający zrzut ekranu, tekst, oprogramowanie, Oprogramowanie multimedialne

Opis wygenerowany automatycznie

Dodaj album (gość)

Obraz zawierający zrzut ekranu, tekst, oprogramowanie, Oprogramowanie multimedialne

Opis wygenerowany automatycznie

Dodaj album (user)

Obraz zawierający zrzut ekranu, tekst, oprogramowanie, Oprogramowanie multimedialne

Opis wygenerowany automatycznie

Lista wykonawców (gość, user)

Obraz zawierający tekst, zrzut ekranu, oprogramowanie, Oprogramowanie multimedialne

Opis wygenerowany automatycznie

Szukaj albumu(gość,user)

Obraz zawierający tekst, zrzut ekranu, oprogramowanie, Oprogramowanie multimedialne

Opis wygenerowany automatycznie