

## CREATE DATABASE Music DEFAULT CHARACTER SET UTF8MB4;

**USE Music**;

CREATE TABLE Album (
 album\_title VARCHAR (255),
 album\_length INTEGER,
 album\_rating INTEGER,
 album\_id INTEGER NOT NULL AUTO\_INCREMENT,
 artist\_id INTEGER,

PRIMARY KEY (album\_id),

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INDEX USING BTREE (album_title),
      CONSTRAINT FOREIGN KEY (artist id)
            REFERENCES Artist (artist_id)
            ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE = InnoDB;
CREATE TABLE Genre (
      genre_name VARCHAR (255),
      genre_id INTEGER NOT NULL AUTO_INCREMENT,
      PRIMARY KEY (genre_id),
      INDEX USING BTREE (genre_name)
) ENGINE = InnoDB;
CREATE TABLE Track (
      track_title VARCHAR (255),
      track_count INTEGER,
      track_length INTEGER,
      track_rating INTEGER,
      album id INTEGER,
      genre_id INTEGER,
      track_id INTEGER NOT NULL AUTO_INCREMENT,
      PRIMARY KEY (track_id),
      INDEX USING BTREE (track_title),
      CONSTRAINT FOREIGN KEY (album_id)
            REFERENCES Album (album id)
            ON DELETE CASCADE ON UPDATE CASCADE
      CONSTRAINT FOREIGN KEY (genre id)
            REFERENCES Genre (genre_id)
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ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE = InnoDB;

CREATE DATABASE Music DEFAULT CHARACTER SET UTF8MB4; **USE Music**; CREATE TABLE Artist (artist name VARCHAR (255), artist id INTEGER NOT NULL AUTO INCREMENT, PRIMARY KEY (artist\_id)) ENGINE = InnoDB; CREATE TABLE Album (album title VARCHAR (255), album length INTEGER, album rating INTEGER, album id INTEGER NOT NULL AUTO INCREMENT, artist id INTEGER, PRIMARY KEY (album\_id), INDEX USING BTREE (album\_title), CONSTRAINT FOREIGN KEY (artist id) REFERENCES Artist (artist id) ON DELETE CASCADE ON UPDATE CASCADE) ENGINE = InnoDB; CREATE TABLE Genre (genre name VARCHAR (255), genre id INTEGER NOT NULL AUTO INCREMENT, PRIMARY KEY (genre id), INDEX USING BTREE (genre name)) ENGINE = InnoDB; CREATE TABLE Track (track title VARCHAR (255), track count INTEGER, track length INTEGER, track rating INTEGER, album id INTEGER, genre id INTEGER, track id INTEGER NOT NULL AUTO INCREMENT, PRIMARY KEY (track id), INDEX USING BTREE (track title), CONSTRAINT FOREIGN KEY (album id) REFERENCES Album (album id) ON DELETE CASCADE ON UPDATE CASCADE. CONSTRAINT FOREIGN KEY (genre id) REFERENCES Genre (genre id) ON DELETE CASCADE ON UPDATE CASCADE) ENGINE = InnoDB; INSERT INTO Artist (artist name) VALUES ('Kendrick Lamar'); INSERT INTO Artist (artist name) VALUES ('Billie Eilish'); INSERT INTO Artist (artist name) VALUES ('Blackpink'); INSERT INTO Album (album title, album length, album rating, artist id) VALUES ('Damn', 3294, 5, 1); INSERT INTO Album (album title, album length, album rating, artist id) VALUES ('Hit Me Hard and Soft', 2625, 3, 2); INSERT INTO Album (album title, album length, album rating, artist id) VALUES ('When We All Fall Asleep, Where Do We Go?', 2575, 4, 2); INSERT INTO Album (album title, album length, album rating, artist id) VALUES ('Born Pink', 1474, 4, 3); INSERT INTO Album (album title, album length, album rating, artist id) VALUES ('The Album', 1468, 3, 3); INSERT INTO Genre (genre name) VALUES ('Hip-hop'); INSERT INTO Genre (genre name) VALUES ('Pop'); INSERT INTO Genre (genre\_name) VALUES ('R&B'); INSERT INTO Genre (genre name) VALUES ('New age');

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('DNA', 2, 185, 5, 1, 1);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Loyalty', 6, 227, 5, 1, 3);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Humble', 8, 177, 5, 1, 1);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Love', 10, 213, 3, 1, 4);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Bad Guy', 2, 194, 5, 2, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('You Should See Me in a Crown', 4, 180, 4, 2, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('All the Good Girls Go to Hell', 5, 168, 4, 2, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Wish You Were Gay', 6, 221, 3, 2, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('When the Party's Over', 7, 196, 3, 2, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Bury a Friend', 10, 193, 3, 2, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Come Out and Play', 15, 210, 4, 2, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Everything I Wanted', 18, 245, 4, 2, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Lunch', 2, 180, 4, 4, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Chihiro', 3, 303, 4, 3, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Birds of a Feather', 4, 210, 4, 5, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Wildflower', 5, 261, 4, 3, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('How You Like That', 1, 181, 5, 4, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Ice Cream', 2, 176, 4, 4, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Lovesick Girls', 5, 194, 4, 4, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Pink Venom', 1, 186, 4, 5, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Shut Down', 2, 176, 4, 5, 2);

INSERT INTO Track (track\_title, track\_count, track\_length, track\_rating, album\_id, genre\_id) VALUES ('Jump', 18, 164, 4, 5, 2);

SELECT Track.track\_title, Track.track\_count, Track.track\_time, Track.track\_rating, Album.album\_title, Artist\_artist\_name, Genre.genre\_id

FROM Track JOIN Genre JOIN Album JOIN Artist ON Track.genre\_id = Genre.genre\_id AND Track.album\_id = Album.album\_id AND Album.artist\_ID = Artist.artist\_id ORDER BY Album.album\_title ASC, Track.track\_count ASC;

SELECT DISTINCT Track.track\_title, Track.track\_count, Track.track\_time, Track.track\_rating, Album.album\_title, Artist\_artist\_name, Genre.genre\_name

FROM Track JOIN Genre JOIN Album JOIN Artist ON Track.genre\_id = Genre.genre\_id AND Track.album\_id = Album.album\_id AND Album.artist\_ID = Artist.artist\_id WHERE Artist.artist\_name = 'Kendrick Lamar' ORDER BY Album.album\_title ASC, Track.track\_count ASC;