

CREATE DATABASE Roster

DEFAULT CHARACTER SET UTF8MB4;

CREATE TABLE User (

user_id INTEGER NOT NULL AUTO_INCREMENT,

name VARCHAR (128),

PRIMARY KEY (user_id)
) ENGINE = InnoDB CHARACTER SET UTF8MB4;

CREATE TABLE Member (role_id INTEGER),

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role VARCHAR (128),
       user id INTEGER,
       course id INTEGER,
       CONSTRAINT FOREIGN KEY (user id) REFERENCES User (user id)
              ON DELETE CASCADE ON UPDATE CASCADE,
       CONSTRAINT FOREIGN KEY (course id) REFERENCES Course (course id)
              ON DELETE CASCADE ON UPDATE CASCADE,
       PRIMARY KEY (user id, course id),
       INDEX USING BTREE (role)
) ENGINE = InnoDB CHARACTER SET UTF8MB4;
INSERT INTO User (name) VALUES ('Ramanas');
INSERT INTO User (name) VALUES ('Annie');
INSERT INTO User (name) VALUES ('Cedar');
INSERT INTO User (name) VALUES ('Cejay');
INSERT INTO User (name) VALUES ('Trassa');
INSERT INTO User (name) VALUES ('Trinity');
INSERT INTO User (name) VALUES ('Amberlouise');
INSERT INTO User (name) VALUES ('Hcen');
INSERT INTO User (name) VALUES ('Latif');
INSERT INTO User (name) VALUES ('Madison');
INSERT INTO User (name) VALUES ('Nirvana');
INSERT INTO User (name) VALUES ('Leigha');
INSERT INTO User (name) VALUES ('Nader');
INSERT INTO User (name) VALUES ('Prithvi');
INSERT INTO User (name) VALUES ('Reynold');
INSERT INTO Course (title) VALUES ('si106');
INSERT INTO Course (title) VALUES ('si110');
INSERT INTO Course (title) VALUES ('si206');
INSERT INTO Member (role id, role) VALUES (0, 'student')
INSERT INTO Member (role id, role) VALUES (1, 'instructor')
INSERT INTO Member (user id, course id, role) VALUES ('1', '1', '1');
INSERT INTO Member (user id, course id, role) VALUES ('2', '1', '0');
INSERT INTO Member (user id, course id, role) VALUES ('3', '1', '0');
INSERT INTO Member (user id, course id, role) VALUES ('4', '1', '0');
INSERT INTO Member (user id, course id, role) VALUES ('5', '1', '0');
INSERT INTO Member (user_id, course_id, role) VALUES ('6', '2', '1');
INSERT INTO Member (user id, course id, role) VALUES ('7', '2', '0');
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INSERT INTO Member (user_id, course_id, role) VALUES ('8', '2', '0'); INSERT INTO Member (user_id, course_id, role) VALUES ('9', '2', '0'); INSERT INTO Member (user_id, course_id, role) VALUES ('10', '2', '0'); INSERT INTO Member (user_id, course_id, role) VALUES ('11', '3', '1'); INSERT INTO Member (user_id, course_id, role) VALUES ('12', '3', '0'); INSERT INTO Member (user_id, course_id, role) VALUES ('13', '3', '0'); INSERT INTO Member (user_id, course_id, role) VALUES ('14', '3', '0'); INSERT INTO Member (user_id, course_id, role) VALUES ('15', '3', '0');
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SELECT User.name, Course.title, Member.role
FROM User JOIN Member JOIN Course
ON User.user_id = Member.user_id
AND Member.course_id = Course.course_id
ORDER BY Course.title, Member.role, User.name

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;