Python for Informatics Database Handout

Download and install FireFox and the SQLite Manager

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http://www.mozilla.org/en-US/firefox/new/
https://addons.mozilla.org/en-US/firefox/addon/sqlite-manager/
Queries
insert into Users (name, email) values ('Ted', 'ted@umich.edu')
delete from Users where email='ted@umich.edu'
update Users set name="Charles" where email='csev@umich.edu'
select * from Users
select * from Users where email='csev@umich.edu'
select * from Users order by email
insert into Artist (name) values ('Led Zepplin')
insert into Artist (name) values ('AC/DC')
insert into Genre (name) values ('Rock')
insert into Genre (name) values ('Metal')
insert into Album (title, artist id) values ('Who Made Who', 2)
insert into Album (title, artist id) values ('IV', 1)
insert into Track (title, rating, len, count, album id, genre id) values ('Black Dog', 5, 297, 0, 2, 1)
insert into Track (title, rating, len, count, album id, genre id) values ('Stairway', 5, 482, 0, 2, 1)
insert into Track (title, rating, len, count, album id, genre id) values ('About to Rock', 5, 313, 0, 1, 2)
insert into Track (title, rating, len, count, album id, genre id) values ('Who Made Who', 5, 207, 0, 1, 2)
```

select Track.title, Genre.name from Track join Genre on Track.genre_id = Genre.id

select Track.title, Artist.name, Album.title, Genre.name from Track join Genre join Album join Artist on Track.genre_id = Genre.id and Track.album_id = Album.id and Album.artist_id = Artist.id

Create Table Statements:

CREATE TABLE "Users" ("name" TEXT, "email" TEXT)

CREATE TABLE "Artist" ("id" INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL UNIQUE, "name" TEXT)

CREATE TABLE "Album" ("id" INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL UNIQUE, artist_id INTEGER, "title" TEXT)

CREATE TABLE "Genre" ("id" INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL UNIQUE, "name" TEXT)

CREATE TABLE "Track" ("id" INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL UNIQUE, album_id INTEGER, genre_id INTEGER, len INTEGER, rating INTEGER, "title" TEXT, "count" INTEGER)