**Python for Informatics Database Handout**

**Download and install FireFox and the SQLite Manager**

**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)**