SQL syntax for creating table:

CREATE TABLE Actors (

actorID INTEGRER,

lname TEXT,

fname TEXT,

born INTEGER,

PRIMARY KEY (actorID)

);

sqlite3 //opens sqlite

sqlite3 movies.db //opens & starts file

.quit

.help

.schema //lists all tables

Capitalization is optional

CREATE TABLE Movies (

movieID INTEGER,

title TEXT,

year INTEGER,

PRIMARY KEY (movieID)

);

CREATE TABLE Directors(…);

CREATE TABLE Roles (

actorID INTEGER,

movieID INTEGER,

role TEXT,

PRIMARY KEY (actorID, movieID, role) //usually create with vital elements that repeat

FOREIGN KEY (actorID) REFERENCES Actors (actorID)

FOREIGN KEY (movieID) REFERENCSE Movies (movieID)

);

SELECT \* FROM Table1, Table2;

Ex: SELECT \* FROM Actors, Movies;

Will give you Cartesian product (every single possible combination)

INSERT INTO TableName VALUES (val1, val2, val3, …)

Ex: INSERT INTO Roles VALUES (0, 0, ‘Indiana Jones’);

Ex: INSERT INTO Actors VALUES (0, ‘Ford’, ‘Harrison’, 1942);

Ex: SELECT \*

FROM Actors, Roles

WHERE Actors.actorID==Roles.actor.ID;

To get only the actors with their roles.

Alternatively you can use:

Ex: SELECT \* FROM (Actors NATURAL JOIN Roles)

Ex: SELECT \* FROM (Actors NATURAL JOIN Roles NATURAL JOIN Movies)

Ex: SELECT role, fname, lname

FROM (Actors NATURAL JOIN Roles NATURAL JOIN Movies);

.dump //dumps out all the code needed to make current database

.output FILENAME // outputs everything

Ex: .output rebuild-movies-database.sql

.dump

To run a file in sqlite

.read filename.sql

CREATE TABLE Salaries (

lname TEXT, fnames TEXT, position TEXT, title TEXT, salary INTEGER

);

.import Users/presenter/Downloads/Current\_Employee Salaries

//Didn’t work the first time because the separator was |

.show //will show environment

DELETE FROM Salaries //clears file

.separator , //set separator as ,

.import Users/presenter/Downloads/Current\_Employee Salaries

Can I join 3 tables?

Can I explicitly name the primary key for a join table? Do I have to use PRIMARY KEY (aaa, bbb)?