

CSE111 Phase 2 notes - Part 1

1. Database creation and establish connection w/ python sqlite3 module, then create tables in schema with column names, and drop tables in end and end database connection

a. `database = db.sqlite3`

2. Table population:

 = no populating data before running SQL python script

 = populating existing data before running SQL python script

* import CSV files with data for tables in yellow

Schema Tables:

```
CREATE TABLE IF NOT EXISTS Users
(
    u_id DECIMAL(10,0) NOT NULL,
    u_username CHAR(2) NOT NULL,
    u_email CHAR(40) NOT NULL,
    u_firstname CHAR(30) NOT NULL,
    u_lastname CHAR(30) NOT NULL,
    u_preferredstreamsite CHAR(15) NOT NULL
)
```

#Notes: <https://linuxhint.com/create-table-in-sqlite-using-if-not-exists-statement/>

```
CREATE TABLE IF NOT EXISTS User_Review
(
    p_id STRING(8) NOT NULL,
    u_id DECIMAL(10,0) NOT NULL,
    r_comment CHAR(10000) NOT NULL,
    r_userrating DECIMAL(1,1) NOT NULL,
    r_date CHAR(10) NOT NULL
)
```

```
CREATE TABLE Picture
(
    p_id STRING(8) NOT NULL,
    p_name DECIMAL(100,0) NOT NULL,
    p_releasedate CHAR(4) NOT NULL,
    p_agerating CHAR(5) NOT NULL,
    p_type CHAR(5) NOT NULL,
    p_genre CHAR(100) NOT NULL
)
```

```
CREATE TABLE IF NOT EXISTS Media_Watch_List
(
    u_id DECIMAL(10,0) NOT NULL,
    p_id STRING(8) NOT NULL,
    w_watchstatus CHAR(20) NOT NULL,
    w_completiondate CHAR(10) NOT NULL
)
```

```
CREATE TABLE Streaming_Availability
(
    sa_id DECIMAL(5,0) NOT NULL,
    p_id STRING(8) NOT NULL,
    sa_neflix BOOLEAN NOT NULL CHECK (sa_neflix IN (0, 1)),
    sa_hulu BOOLEAN NOT NULL CHECK (sa_hulu IN (0, 1)),
    sa_primevid BOOLEAN NOT NULL CHECK (sa_primevid IN (0, 1)),
    sa_disney+ BOOLEAN NOT NULL CHECK (sa_disney+ IN (0, 1))
)
```

#Notes: <https://stackoverflow.com/questions/843780/store-boolean-value-in-sqlite>

```
CREATE TABLE Public_Ratings
(
    pr_id DECIMAL(5,0) NOT NULL,
    p_id STRING(8) NOT NULL,
    pr_RTrating DECIMAL(2,1) NOT NULL,
    pr_IMDbrating DECIMAL(2,3) NOT NULL
)
```

```
CREATE TABLE Cast_Member
(
    ca_id DECIMAL(8,0) NOT NULL,
    ca_name CHAR(80) NOT NULL
)
```

```
CREATE TABLE Media_Cast_Member
(
    p_id STRING(8) NOT NULL,
    ca_id DECIMAL(8,0) NOT NULL,
    mc_role CHAR(8) NOT NULL
)
```

- The yellow tables will be tables that will be dropped after closing connection of database, then recreated during next iteration, but the red tables will stay in database