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:**
    = populating data before running SQL python script

    = no populating existing data before running SQL python script, can load dummy values for teasting thugh

* import CSV files with data for tables in yellow

Schema Tables:

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

```
        p_genre CHAR(100) NOT NULL
)


CREATE TABLE IF NOT EXISTS Media_Watch_List
(       w_id DECIMAL(10,0) NOT NULL,
        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 IF NOT EXISTS 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_disneyplus BOOLEAN NOT NULL CHECK (sa_disney+ IN (0, 1))
)
#Notes: https://stackoverflow.com/questions/843780/store-boolean-value-in-sqlite

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

CREATE TABLE IF NOT EXISTS Media_Cast_Member
(
        mcm_id DECIMAL(5,0) NOT NULL,
        p_id STRING(8) NOT NULL,
        ca_id DECIMAL(8,0) NOT NULL,
        mc_role CHAR(8) NOT NULL
)
```