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 DECIMAL(5,0) 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 DECIMAL(5,0) NOT NULL,
                p_name DECIMAL(100,0) NOT NULL,
                p_releasedate CHAR(10) NOT NULL,
                p_agerating DECIMAL(2,0) NOT NULL,
                p_genre CHAR(20) NOT NULL,
                p_type CHAR(10) NOT NULL
        )
```

```
CREATE TABLE IF NOT EXISTS Media_Watch_List
(       u_id DECIMAL(10,0) NOT NULL,
        p_id DECIMAL(5,0) 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 DECIMAL(5,0) NOT NULL,
        sa_hulu BOOLEAN NOT NULL CHECK (sa_hulu IN (0, 1)),
        sa_neflix BOOLEAN NOT NULL CHECK (sa_neflix 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 DECIMAL(5,0) NOT NULL,
        pr_RTrating DECIMAL(3,0) NOT NULL,
        pr_IMDbrating DECIMAL(2,1)) NOT NULL
)

CREATE TABLE  Cast_Member
(       ca_castid DECIMAL(5,0) NOT NULL,
        ca_name CHAR(60) NOT NULL
)

CREATE TABLE  Media_Cast_Member
(       p_id DECIMAL(5,0) NOT NULL,
        ca_castid DECIMAL(5,0) NOT NULL,
        mc_role CHAR(40) 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