CREATE TABLE Genres (

genre\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100) NOT NULL UNIQUE

);

CREATE TABLE Artists (

artist\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(255) NOT NULL UNIQUE,

country VARCHAR(100),

debut\_year INT

);

CREATE TABLE Albums (

album\_id INT PRIMARY KEY AUTO\_INCREMENT,

title VARCHAR(255) NOT NULL,

release\_year INT,

artist\_id INT,

genre\_id INT,

FOREIGN KEY (artist\_id) REFERENCES Artists(artist\_id),

FOREIGN KEY (genre\_id) REFERENCES Genres(genre\_id)

);

CREATE TABLE Songs (

song\_id INT PRIMARY KEY AUTO\_INCREMENT,

title VARCHAR(255) NOT NULL,

duration TIME NOT NULL,

album\_id INT,

artist\_id INT,

genre\_id INT,

FOREIGN KEY (album\_id) REFERENCES Albums(album\_id),

FOREIGN KEY (artist\_id) REFERENCES Artists(artist\_id),

FOREIGN KEY (genre\_id) REFERENCES Genres(genre\_id)

);

CREATE TABLE Playlists (

playlist\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100),

created\_at DATE

):

CREATE TABLE PlaylistSongs (

playlist\_id INT,

song\_id INT,

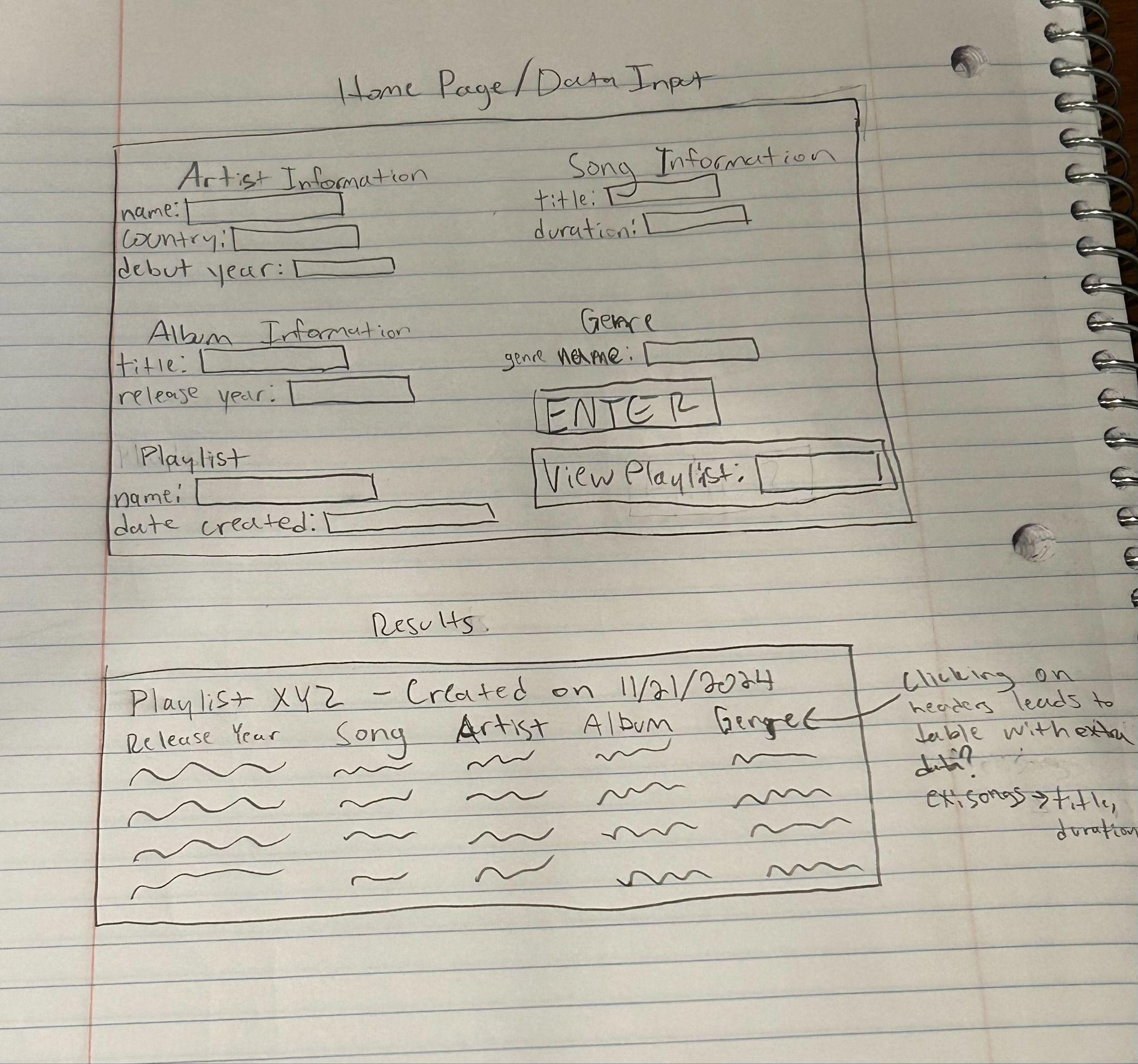
PRIMARY KEY (playlist\_id, song\_id),

FOREIGN KEY (playlist\_id) REFERENCES Playlists(playlist\_id),

FOREIGN KEY (song\_id) REFERENCES Songs(song\_id)

):

Python Interface/Logic:



On the home screen, the user will input the data associated with the song, album, artist, which playlist it will be added to, and the genre - if there is a way that there could be an autofill, so that when multiple songs from the same album are entered it is less redundant when filling the information in, that would be helpful. The “Enter” button would be used so that the user could enter all of the information to the database, and “View Playlist” would allow the user to enter the name of the playlist they want to view (or possibly select it from a dropdown menu if possible), and then have a window displaying the playlist in a format like the illustration. From the playlist screen, if there is a way to click on the column header to view that table more in depth, so that if you pressed the “song” header, you would be able to see both the song title, and the duration from the data that was entered for it.