Project 1 Outline:

Group 3
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CST 363
Part 1 + 2

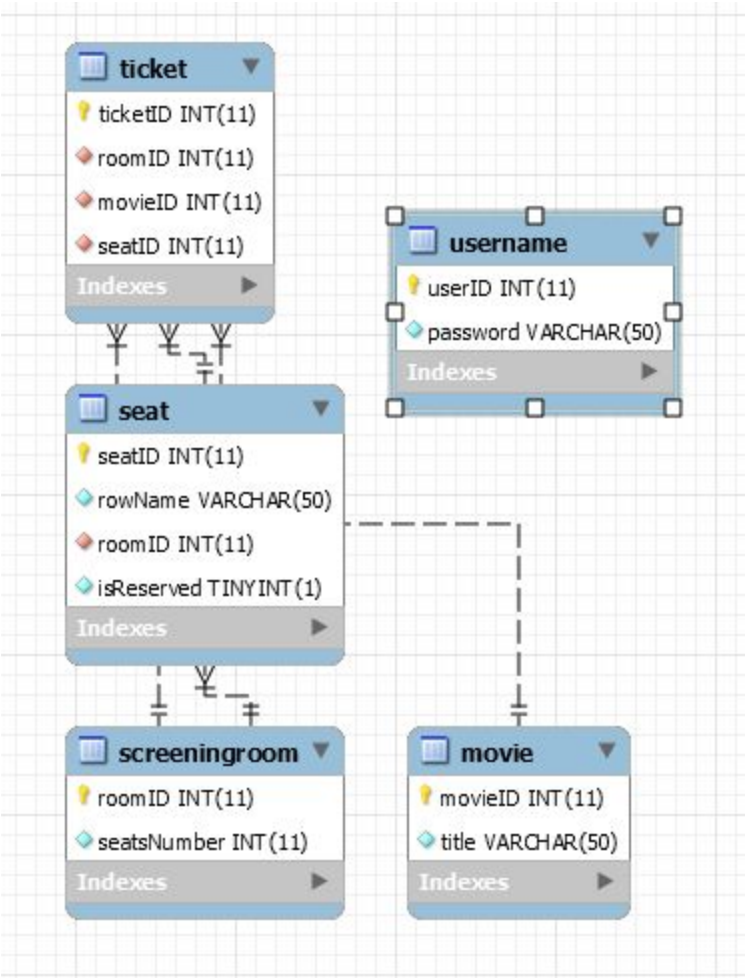
Project Description:
Movie Theater - Our application will be a reservation tool for users to obtain tickets which act as a reservation of a seat in a specific screening room.

We will need information for a user who purchases the tickets, the ticket itself, the screening room, the movie, and the seat in the screening room.

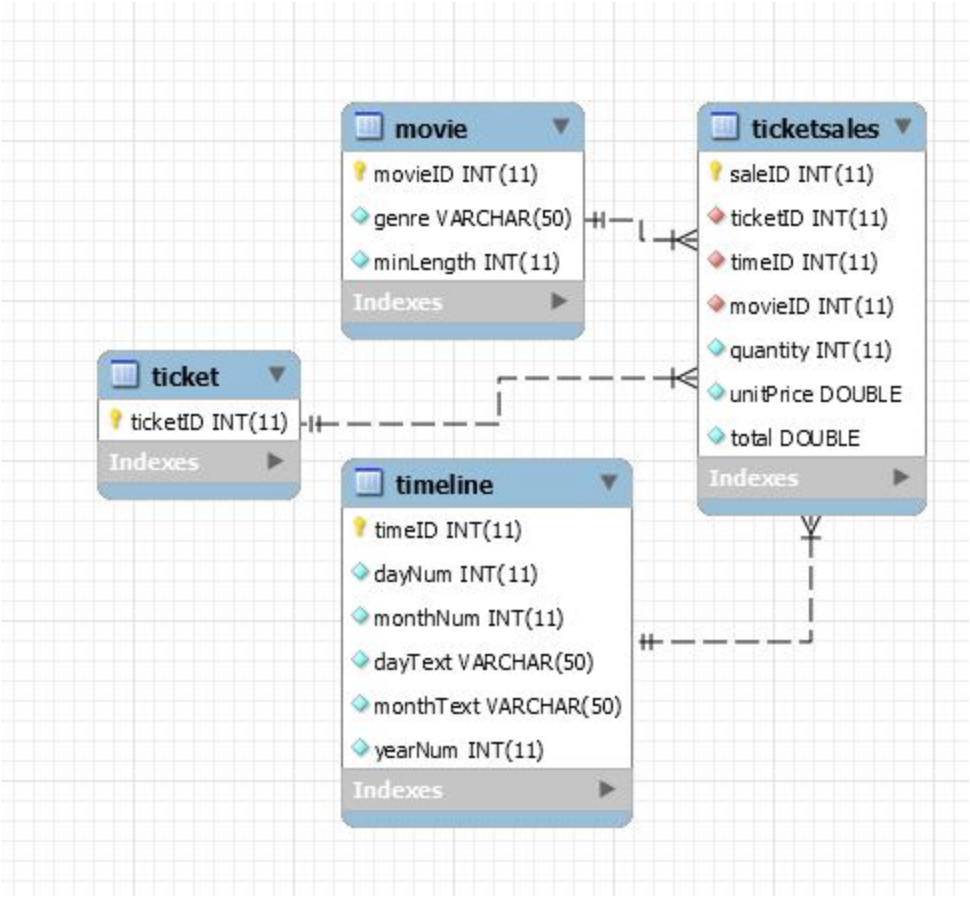
The users will consist of customers, who purchase the tickets. They will interact with the application in order to get a ticket, which contains all the information needed.

Our database contains IDs and names for the movie, screening room, and seats. The user will have a userID and password which they can use to sign in, and the ticket contains the information taken from the room, movie, and seats.
The seat will have a special boolean which is indicated as isReserved which will be marked as True when the user reserves the seat.

For this project, we've opted to use normalized data. By doing so, the data is related to each other in meaningful ways. By avoiding redundancies and allowing for these relationships, we can expand the tables and information as needed. There is no concern over reduced query performances, since the data is for one theater.


ticket
ticketID INT(11)
roomID INT(11)
movieID INT(11)
seatID INT(11)
Indexes
username
userID INT(11)
password VARCHAR(50)
Indexes
seat
seatID INT(11)
rowName VARCHAR(50)
roomID INT(11)
isReserved TINYINT(1)
Indexes
screeningroom
roomID INT(11)
seatsNumber INT(11)
Indexes
movie
movieID INT(11)
title VARCHAR(50)
Indexes

Part 2:



In part 1, our only feedback was to make sure that roomID column auto incremented within the seat table, which was changed and updated on github.