DBMS Lab
Exercise No: 3

For the ER − Modeling problem of the movie production company scenario in Exercise 2, design a relational database by translating the ER Model (ERM) shown in Figure 1 (which you have already developed) into a Relational Model. Ensure that primary key, foreign key, and cardinalities are fulfilled in the ER-to-Relational mapping.
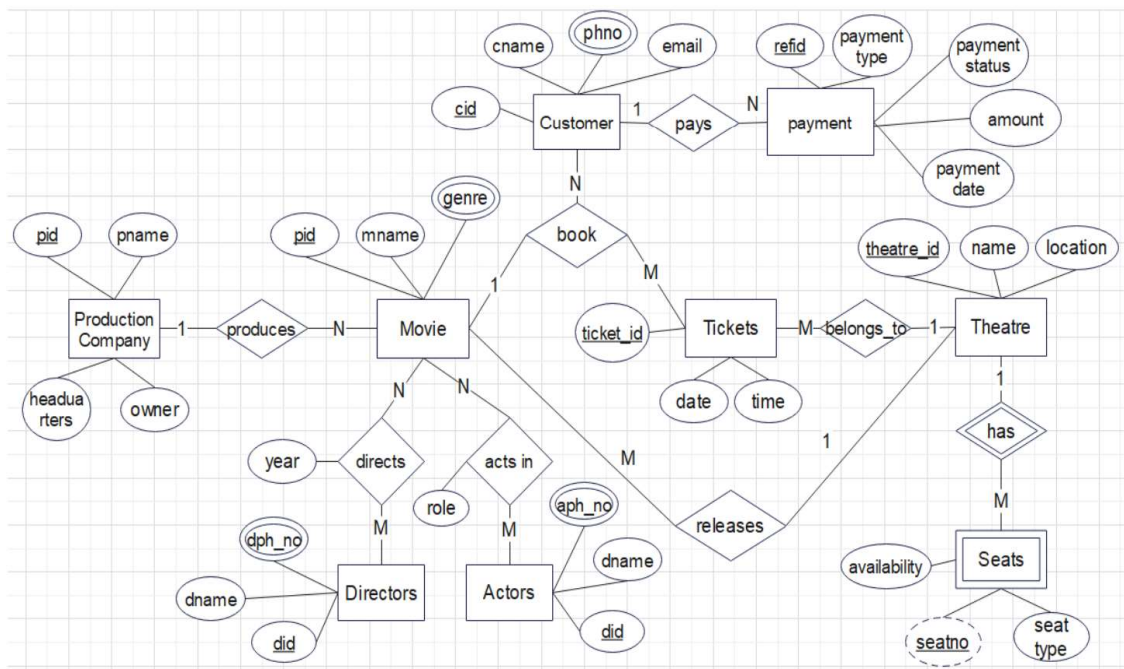

Figure 1: ER diagram

1. Translate the ERM you have developed into the corresponding Relational Model.
2. Create tables in the database based on your ER-to-relational mapping.
3. Insert at least five tuples in all the tables.
4. Make sure to use all the following SQL commands in your relational database. You may take any table to suitably explain/implement the SQL commands.
5. Create DB, Drop DB, Backup DB, Create Table, Alter Table, Delete, Update, Where Constraints, Not NULL, Exists, Unique, Primary Key, Foreign Key, Views, Auto Increment, Group by/having, SQL Like clause, Subqueries using aggregate operators (max, min, avg, count).
6. Upload your answers in PDF format to Eduserver before the deadline (14.09.2021, 23:59).
7. Export the database and upload it to Eduserver before the deadline (14.09.2021, 23:59).