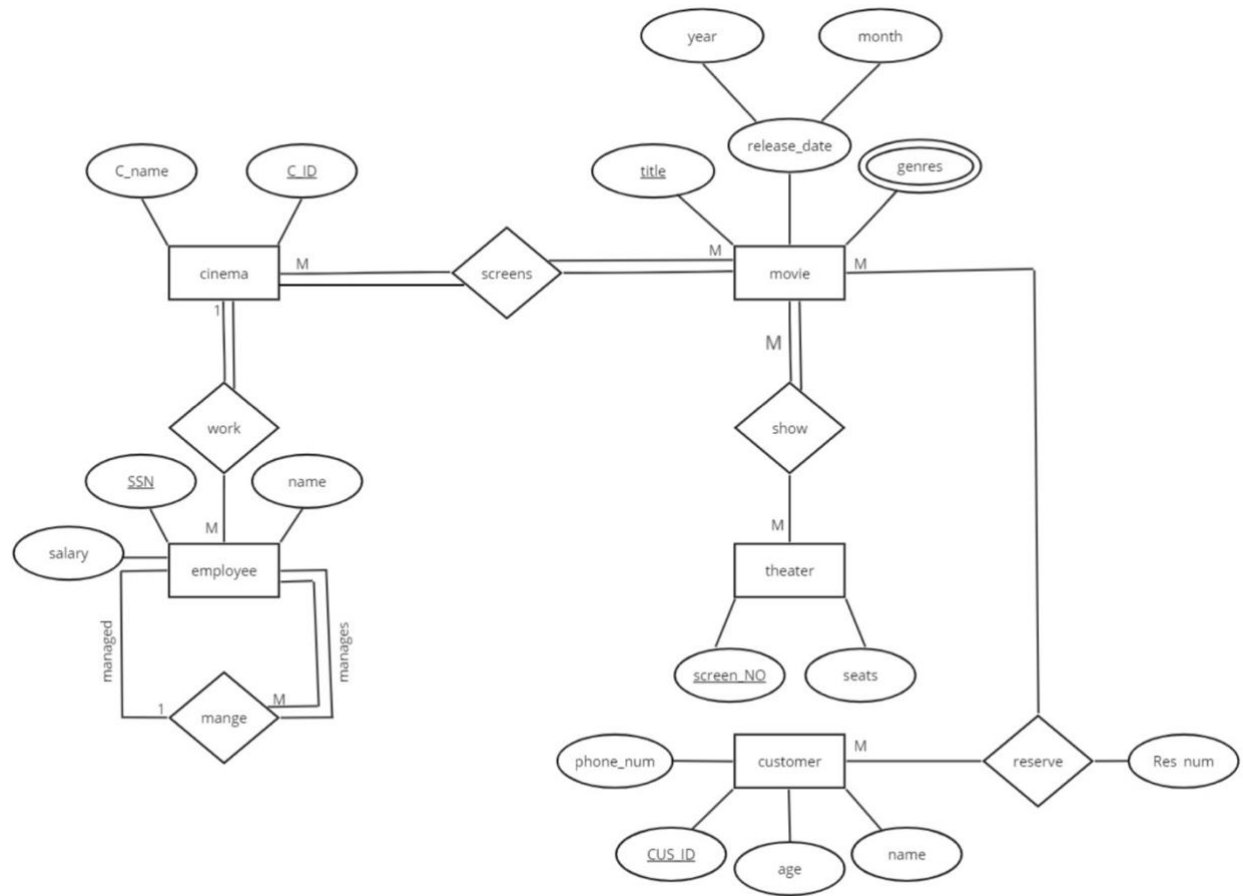


Project Description:

We are developing a Database for Vox Cinema, every Vox Cinema is uniquely identified by the Cinema ID and name, and consist of many Movies, Theaters, Customers and Employees. This application allows customers to reserve Movies and provides details about the reserved Movie (such as the title, genres, and release date) and the Theater that will show the movie which will provide the customers with the screen and seats numbers. The application enables the Cinema to hire many Employees and select a one Employees as a Manager.

Entity Relationship Diagram (ERD):



Phase # 2

Relational Schema:

cinema (C_ID, C_name)

movie (title, release_year, release_month)

movie-genres(genres, title)

FK: title references movie (title)

screens (C_ID, title)

FK1: C_ID references cinema(C_ID)

FK2: title references movie (title)

theater (screen_NO, seats)

show (title, screen_NO)

FK1: title references movie (title)

FK2: screen_NO references theater (screen_NO)

customer (CUS_ID, name, phone_num, age)

reserve (Res_num, title, Cus_ID)

FK1: title references movie (title)

FK2: CUS_ID references customer (CUS_ID)

employee (SSN, name, salary, C_ID, Manager_SSN)

FK1: C_ID references cinema(C_ID)

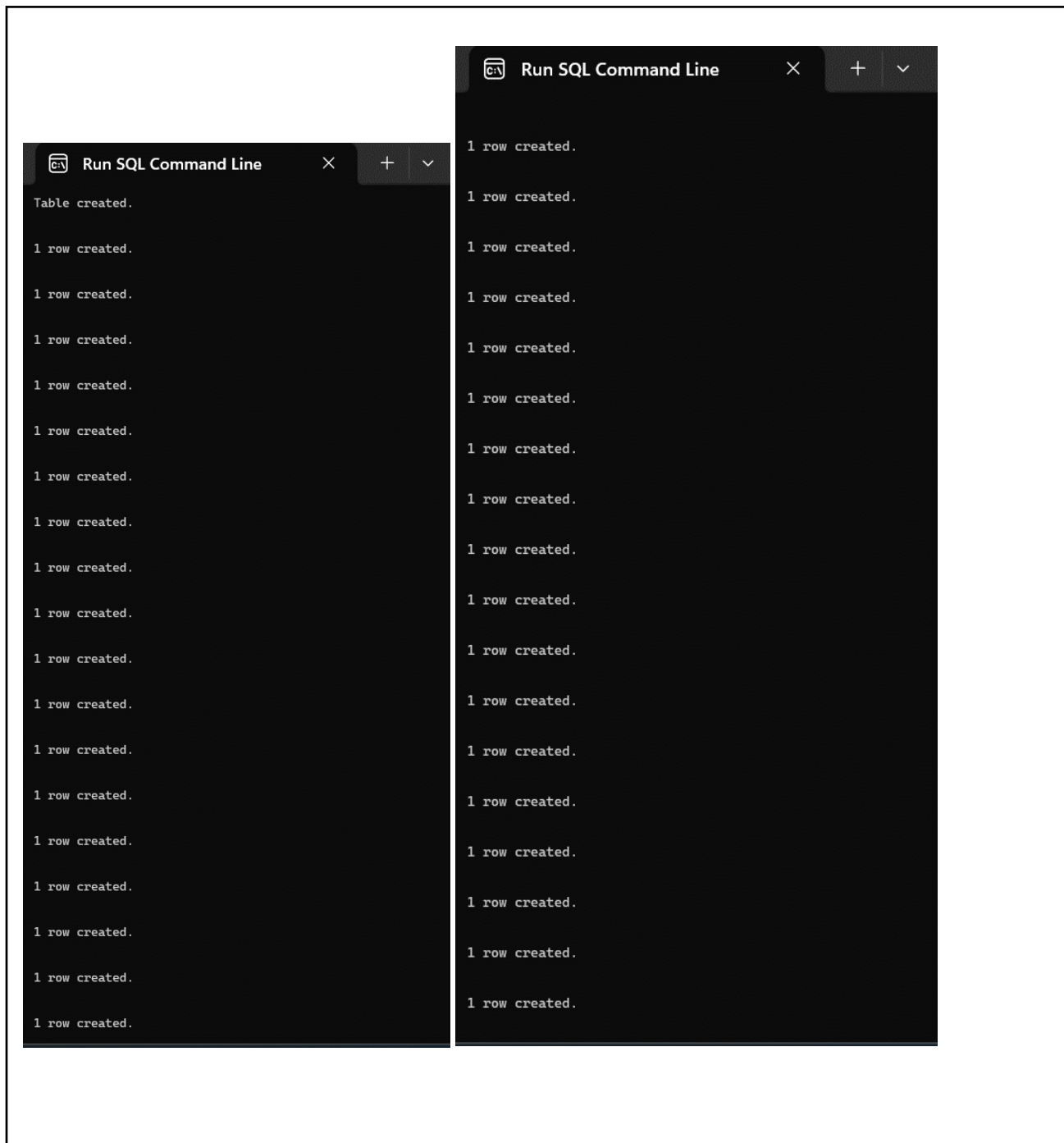
FK2: Manager_SSN references employee (SSN)

Phase # 3

DDL Commands:

[illegible]

DDL Commands:



DML Commands:

lecture7 *where* clause :

```
Run SQL Command Line
```

```
NAME
-----
Sara
Lama

1 row updated.

CUS_ NAME          PHONE_NUM          AGE
-----
3333 Ahmad          0532651808         20
4444 Leena          0506129354         12
5555 Reema          0598215426         33

CUS_ NAME          PHONE_NUM          AGE
-----
4444 Leena          0506129354         12

          SSN NAME          SALARY C_ID  MANAGER_SSN
-----
1157902468 Sara          20000 0000
1158834920 Norah          20000 1111
1365724983 Lama          16000 2222  1157902468
1458699220 Khalid          18000 2222  1157902468
```

Three quires from [lecture8-9](#)

```
C_ID MIN(SALARY) MAX(SALARY)
----
0000      20000      20000
1111      11000      20000
2222      16000      18000

NAME          MIN(AGE)
-----
Leena          12

NAME          C_ID C_NAME
-----
Sara          0000 vox
Norah          1111 vox
Omar          1111 vox
Lama          2222 vox
Khalid        2222 vox
```