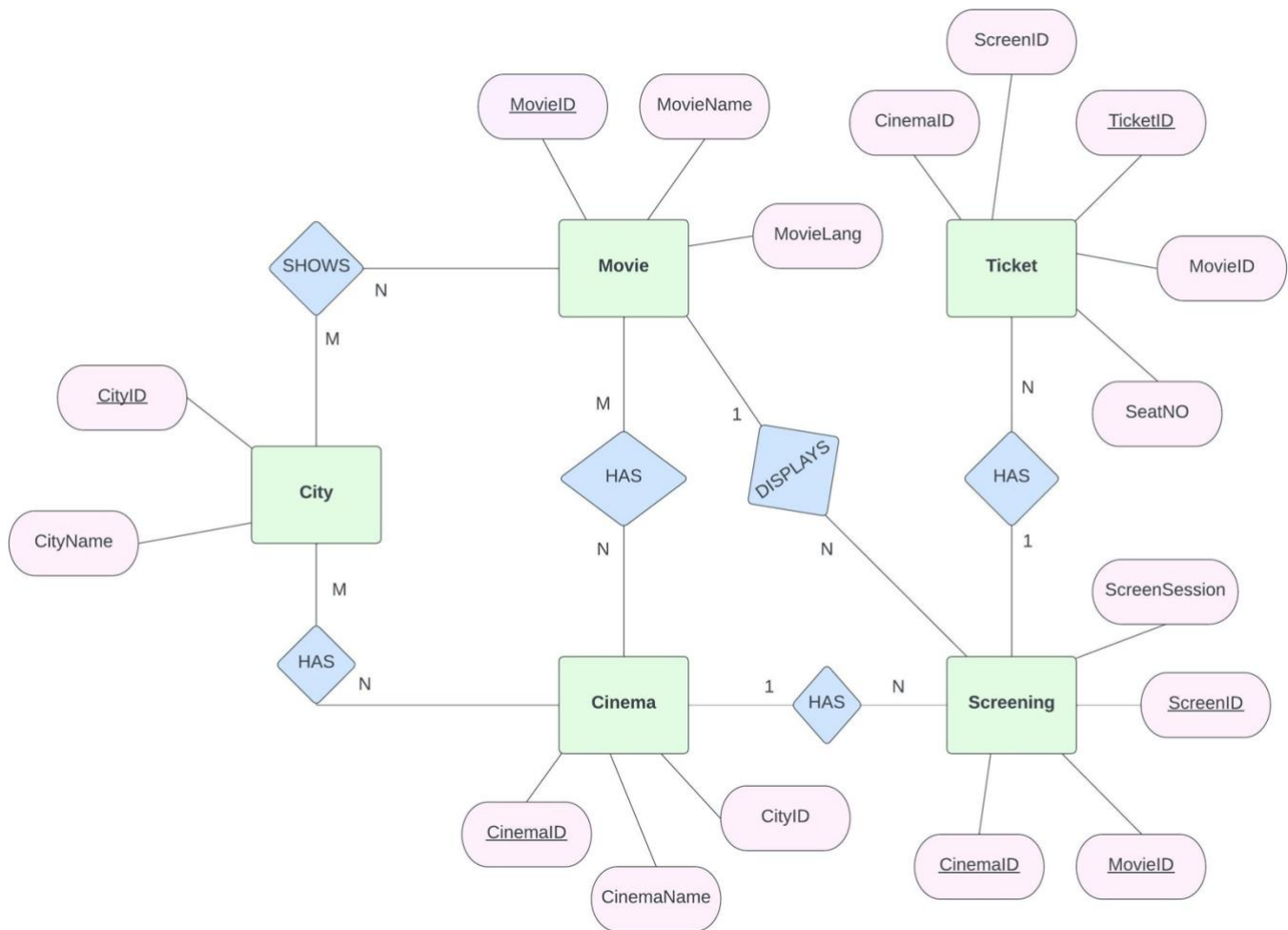# ER DIAGRAM

3)

```sql
CREATE TABLE CITY(
City_id INT NOT NULL,
City_name VARCHAR(100) NOT NULL,
PRIMARY KEY(City_id),
UNIQUE (City_name)
);
```

```sql
CREATE TABLE CINEMA(
Cinema_id INT NOT NULL,
City_id INT NOT NULL,
Cinema_name VARCHAR(100) NOT NULL,
PRIMARY KEY(Cinema_id),
FOREIGN KEY(City_id) REFERENCES CITY(City_id),
UNIQUE (Cinema_name)
);
```

```sql
CREATE TABLE MOVIES(
Movie_id INT NOT NULL,
Movie_title VARCHAR(100) NOT NULL,
Movie_Duration INT NOT NULL,
PRIMARY KEY(Movie_id)
);
```

```sql
CREATE TABLE SCREENING(
Movie_id INT NOT NULL,
Cinema_id INT NOT NULL,
Screen_id INT NOT NULL,
Screen_time VARCHAR(100) NOT NULL,
PRIMARY KEY(Movie_id, Cinema_id, Screen_id),
FOREIGN KEY(Movie_id) REFERENCES MOVIES(Movie_id),
FOREIGN KEY(Cinema_id) REFERENCES CINEMA(Cinema_id)
);
```

```sql
CREATE TABLE BOOKTICKET(
BT_ID INT NOT NULL,
```

```sql
Movie_id INT NOT NULL,
Cinema_id INT NOT NULL,
Screen_id INT NOT NULL,
SeatNum INT NOT NULL,
PRIMARY KEY (BT_ID),
FOREIGN KEY (Movie_id, Cinema_id, Screen_id) REFERENCES SCREENING(Movie_id, Cinema_id, Screen_id)
);
```
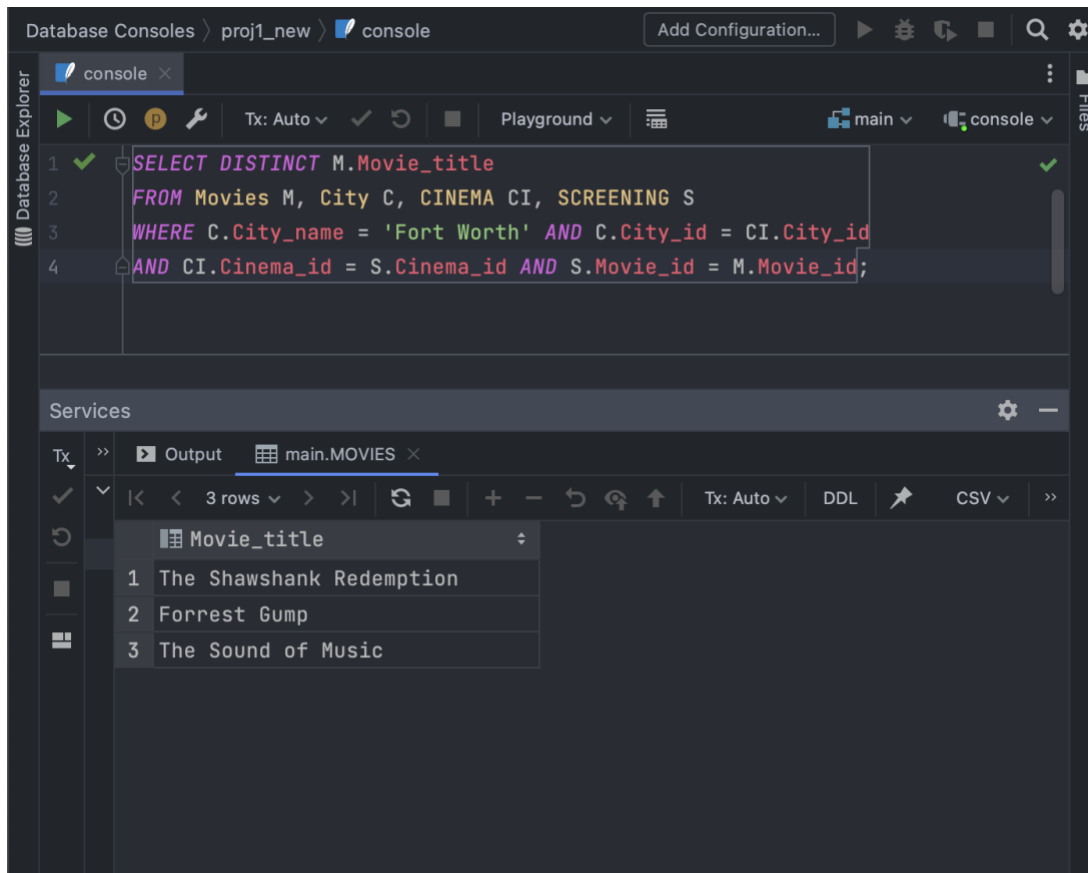
4)
```
INSERT INTO CITY VALUES(1, 'Dallas');

INSERT INTO CITY VALUES(2, 'Fort Worth');

INSERT INTO CITY VALUES(3, 'Arlington');
```

We used the INSERT function to insert the values into the tables.
In the above source code, we used the INSERT statement followed by the table name in which
we need to insert the values and then the values.

5)
2.

3.


```sql
SELECT DISTINCT C.Cinema_name
FROM CINEMA C, MOVIES M, SCREENING S
WHERE M.Movie_title = 'Gladiator' AND M.Movie_id = S.Movie_id
AND S.Cinema_id = C.Cinema_id;
```

	Cinema_name
1	Cinemaprism
2	Fuze Cinema
3	Crowd Cinema

4.


```sql
SELECT DISTINCT B.SeatNum
FROM BOOKTICKET B, MOVIES M, SCREENING S
WHERE M.Movie_id = B.Movie_id
  AND M.Movie_title = 'The Wizard of Oz'
  AND S.Screen_id = B.Screen_id;
```

	SeatNum
1	1
2	2
3	3

5.


```sql
SELECT S.Screen_time
FROM CINEMA C, MOVIES M, SCREENING S
WHERE C.Cinema_name = 'Crowd Cinema' AND M.Movie_title = 'Gladiator'
AND M.Movie_id = S.Movie_id AND C.Cinema_id = S.Cinema_id;
```

	Screen_time
1	2 pm - 4 pm
2	2 pm - 4 pm

6.


```sql
SELECT M.Movie_title
FROM MOVIES M, SCREENING S
WHERE S.Screen_time = '2 pm - 4 pm' AND S.Movie_id = M.Movie_id;
```

	Movie_title
1	The Shawshank Redemption
2	The Wizard of Oz
3	Forrest Gump
4	The Sound of Music
5	The Sound of Music
6	Gladiator
7	Gladiator

7.

```sql
SELECT C.Cinema_name, M.Movie_Duration, S.Screen_time
FROM BOOKTICKET B, CINEMA C, SCREENING S, MOVIES M
WHERE B.BT_ID = 17
AND B.Movie_id = S.Movie_id
AND B.Cinema_id = S.Cinema_id
AND B.Screen_id = S.Screen_id
AND B.Cinema_id = C.Cinema_id
AND B.Movie_id = M.Movie_id;
```

	Cinema_name	Movie_Duration	Screen_time
1	Fuze Cinema	102	2 pm - 4 pm

8.


```sql
SELECT M.Movie_title, S.Screen_time, CI.City_name, C.Cinema_name
FROM MOVIES M, SCREENING S, CINEMA C, CITY CI
WHERE C.City_id = CI.City_id
  AND M.Movie_id = S.Movie_id
  AND C.Cinema_id = S.Cinema_id;
```

	Movie_title	Screen_time	City_name	Cinema_name
1	The Shawshank Redemption	12 pm - 2 pm	Dallas	Cinemaprism
2	The Shawshank Redemption	2 pm - 4 pm	Fort Worth	Cinemaque
3	The Wizard of Oz	2 pm - 4 pm	Arlington	Fuze Cinema
4	The Wizard of Oz	12 pm - 2 pm	Dallas	Crowd Cinema
5	Vertigo	4 pm - 6 pm	Dallas	Cinemaprism
6	Forrest Gump	2 pm - 4 pm	Dallas	Cinemaprism
7	Forrest Gump	4 pm - 6 pm	Dallas	Cinemaprism
8	Forrest Gump	12 pm - 2 pm	Fort Worth	Cinemaque
9	The Sound of Music	2 pm - 4 pm	Fort Worth	Cinemaque
10	The Sound of Music	2 pm - 4 pm	Arlington	Fuze Cinema
11	Gladiator	4 pm - 6 pm	Arlington	Fuze Cinema
12	Gladiator	2 pm - 4 pm	Dallas	Crowd Cinema
13	Gladiator	2 pm - 4 pm	Dallas	Crowd Cinema
14	Gladiator	12 pm - 2 pm	Dallas	Cinemaprism

9.

Database Consoles › proj1_new › 📄 console

console ✕

```sql
SELECT M.Movie_title, B.SeatNum
FROM CINEMA C, MOVIES M, BOOKTICKET B
WHERE C.Cinema_name = 'Crowd Cinema'
  AND B.Movie_id = M.Movie_id
  AND B.Cinema_id = C.Cinema_id;
```

Services

Output   Result 21 ✕

6 rows

	Movie_title ⇕	SeatNum ⇕
1	The Wizard of Oz	1
2	Gladiator	2
3	Gladiator	2
4	The Wizard of Oz	3
5	Gladiator	4
6	Gladiator	4

6)

Contribution List:
ER diagram – Fazeel, Shaina, Naila
DB file – Fazeel, Shaina, Naila
Source code of SQL CREATE statements – Fazeel, Shaina, Naila
Source code of SQL SELECT statements – Fazeel, Shaina, Naila
Readme file – Fazeel, Shaina, Naila
Final project file – Fazeel, Shaina, Naila