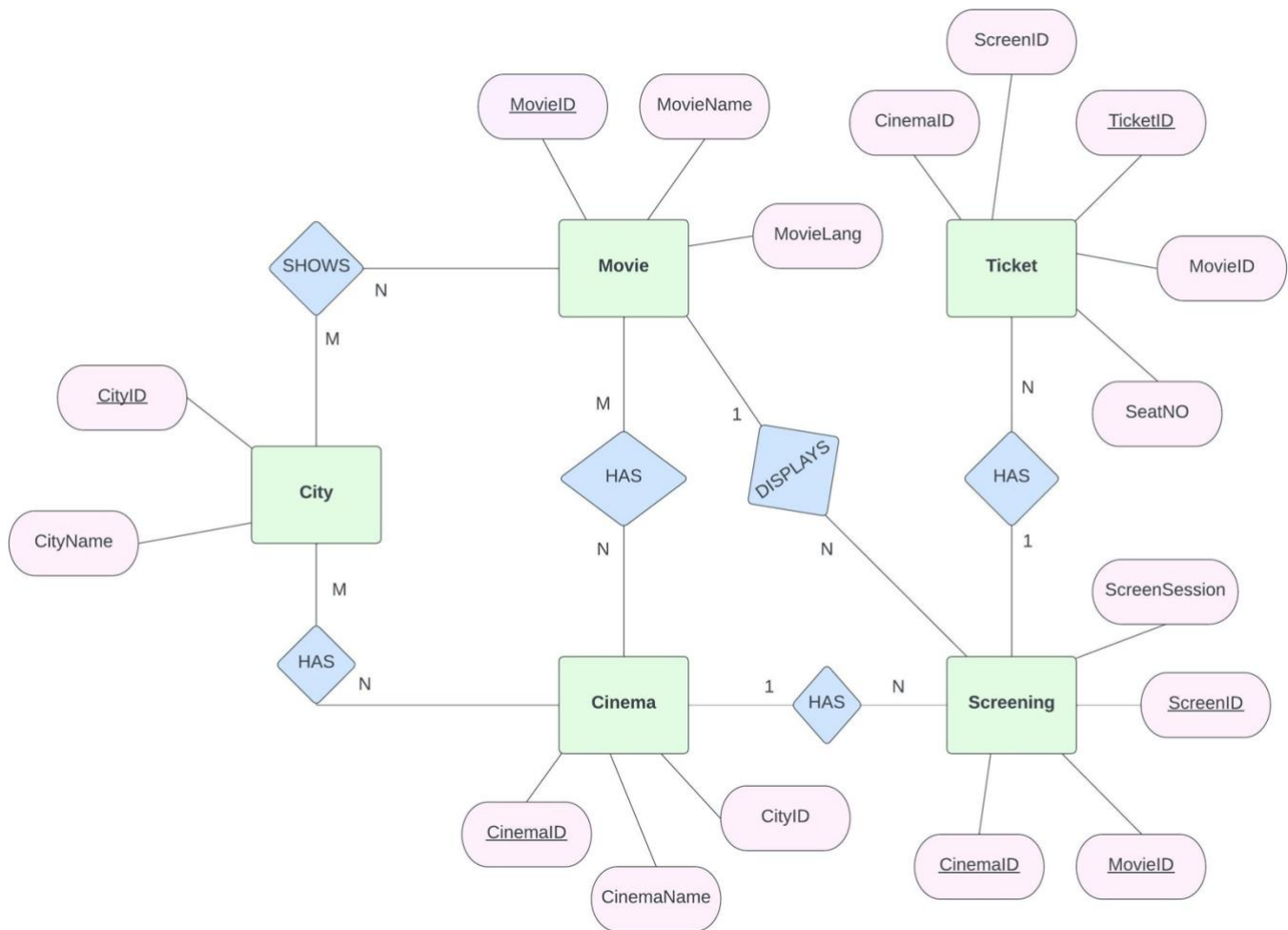


# ER DIAGRAM



3)

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

```
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)  
);
```

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

```
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)  
);
```

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

```
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)

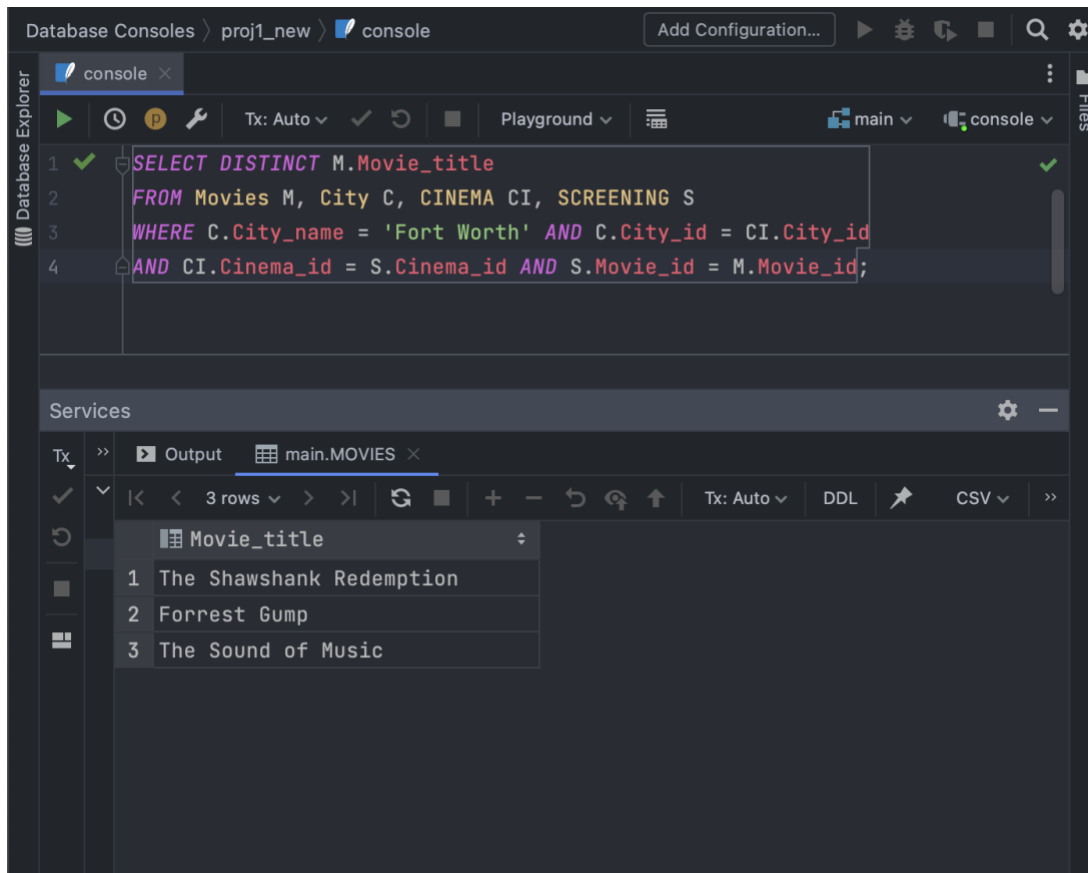
```
INSERT INTO CITY VALUES(1, 'Dallas');  
INSERT INTO CITY VALUES(2, 'Fort Worth');  
INSERT INTO CITY VALUES(3, 'Arlington');
```

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.



The screenshot shows a database console interface with a dark theme. The top bar indicates the current project is 'proj1\_new' and the active console is 'console'. The main editor area contains a SQL query:

```
1 SELECT DISTINCT M.Movie_title  
2 FROM Movies M, City C, CINEMA CI, SCREENING S  
3 WHERE C.City_name = 'Fort Worth' AND C.City_id = CI.City_id  
4 AND CI.Cinema_id = S.Cinema_id AND S.Movie_id = M.Movie_id;
```

Below the editor, the 'Services' panel is visible, showing the 'Output' tab for 'main.MOVIES'. It displays the results of the query as a table with 3 rows:

	Movie_title
1	The Shawshank Redemption
2	Forrest Gump
3	The Sound of Music

3.

The screenshot shows a database console interface with a SQL query and its results. The query is as follows:

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

The results are displayed in a table with the following data:

Cinema_name
1 Cinemaprism
2 Fuze Cinema
3 Crowd Cinema

4.

The screenshot shows a database console interface with a SQL query and its results. The query is as follows:

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

The results are displayed in a table with the following data:

SeatNum
1 1
2 2
3 3

5.

The screenshot shows a database console interface with a SQL query and its results. The query is as follows:

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

The results are displayed in a table with the following data:

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

6.

The screenshot shows a database console interface with a SQL query and its results. The query is as follows:

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

The results are displayed in a table with the following data:

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.

The screenshot shows a database console window with a dark theme. The top bar indicates the project is 'proj1\_new' and the console is active. The SQL editor contains the following query:

```
1 SELECT C.Cinema_name, M.Movie_Duration, S.Screen_time
2 FROM BOOKTICKET B, CINEMA C, SCREENING S, MOVIES M
3 WHERE B.BT_ID = 17
4 AND B.Movie_id = S.Movie_id
5 AND B.Cinema_id = S.Cinema_id
6 AND B.Screen_id = S.Screen_id
7 AND B.Cinema_id = C.Cinema_id
8 AND B.Movie_id = M.Movie_id;
```

Below the editor, the 'Services' panel shows the query output. The first row of results is displayed:

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

The interface includes various toolbars for execution, configuration, and navigation. The 'Database Explorer' on the left shows the project structure, and the 'Files' panel on the right shows the current file being edited.

8.

The screenshot shows a database console window with a SQL query and its results. The query is as follows:

```
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;
```

The results are displayed in a table with 14 rows and 4 columns: Movie\_title, Screen\_time, City\_name, and Cinema\_name.

	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.

The screenshot shows a database console window with a dark theme. The top bar indicates the current project is 'proj1\_new' and the active console is 'console'. Below the top bar, there's a toolbar with various icons for execution, transaction management, and playground settings. The main area displays a SQL query:

```
1 SELECT M.Movie_title, B.SeatNum
2 FROM CINEMA C, MOVIES M, BOOKTICKET B
3 WHERE C.Cinema_name = 'Crowd Cinema'
4 AND B.Movie_id = M.Movie_id
5 AND B.Cinema_id = C.Cinema_id;
```

Below the query editor, the 'Services' panel is visible, showing the execution output. The output is a table with 6 rows and 2 columns: 'Movie\_title' and 'SeatNum'. The results are as follows:

	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

The interface also includes a 'Database Explorer' on the left and a 'Files' panel on the right. The bottom right corner shows 'Notifications' and 'Stru' (likely Structure).

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