

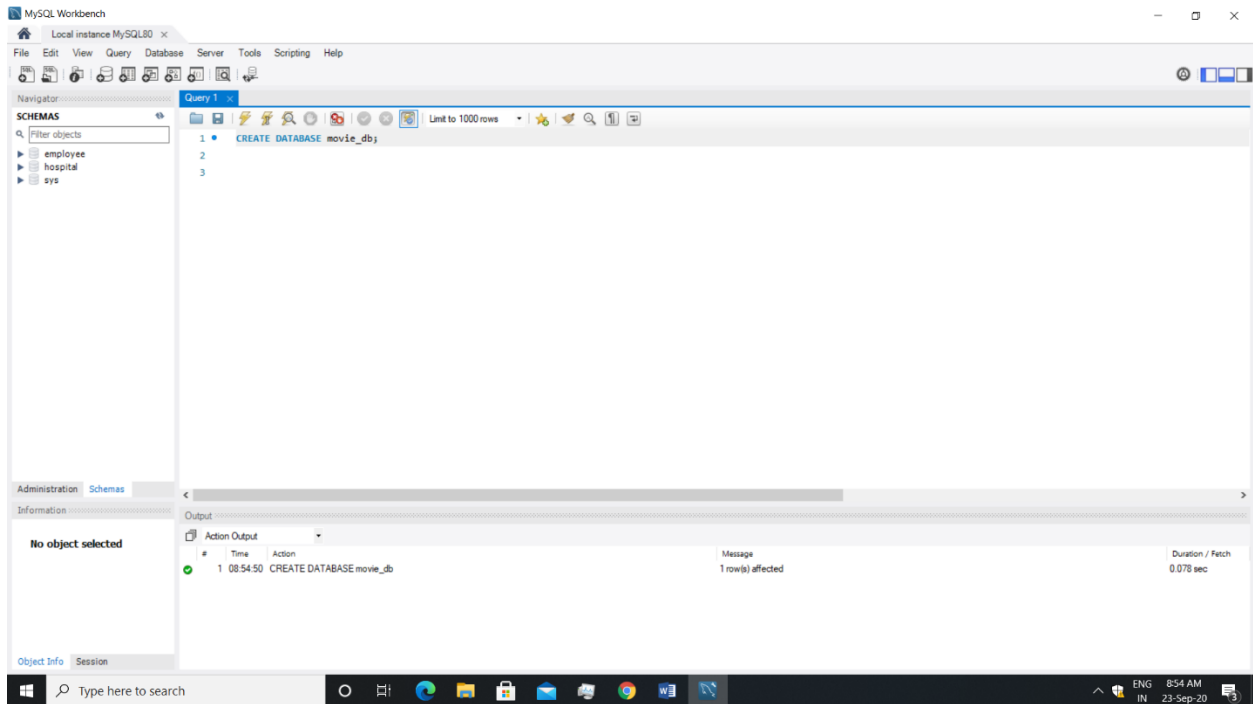
# *ASSIGNMENT – 3*

*DATABASE*

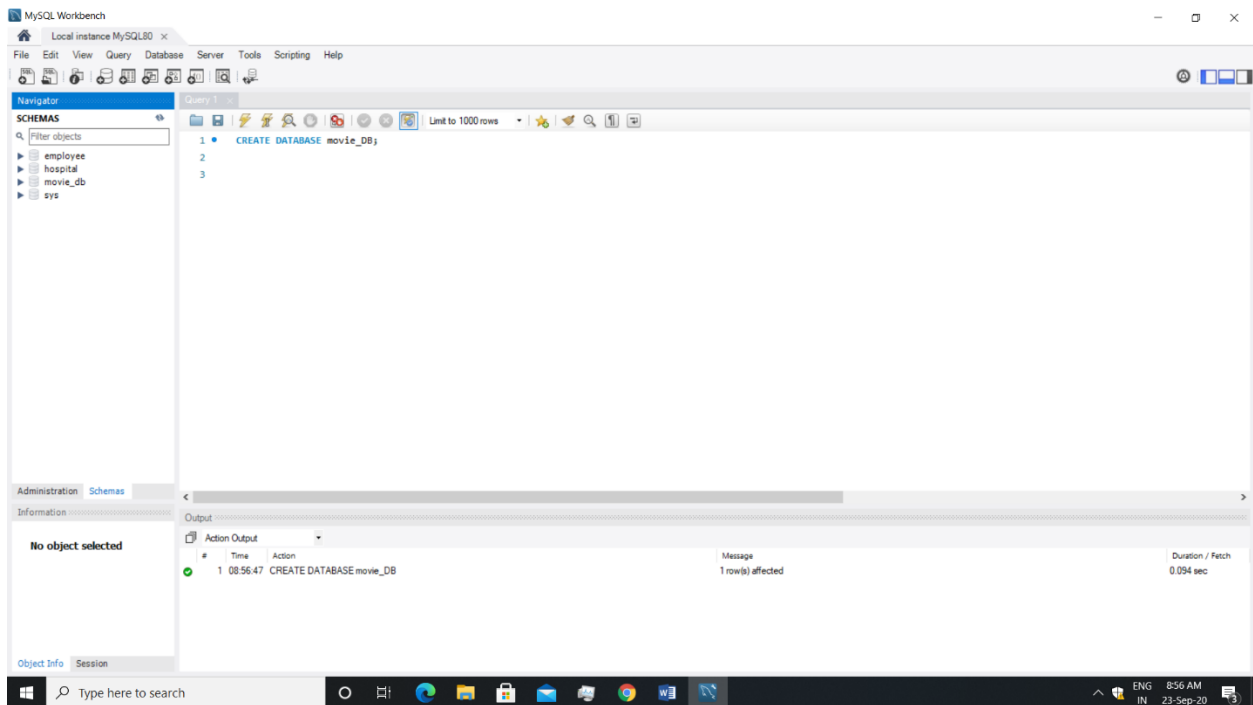
*MANAGEMENT SYSTEM*

CREATE DATABASE:

Creating Database movie\_db

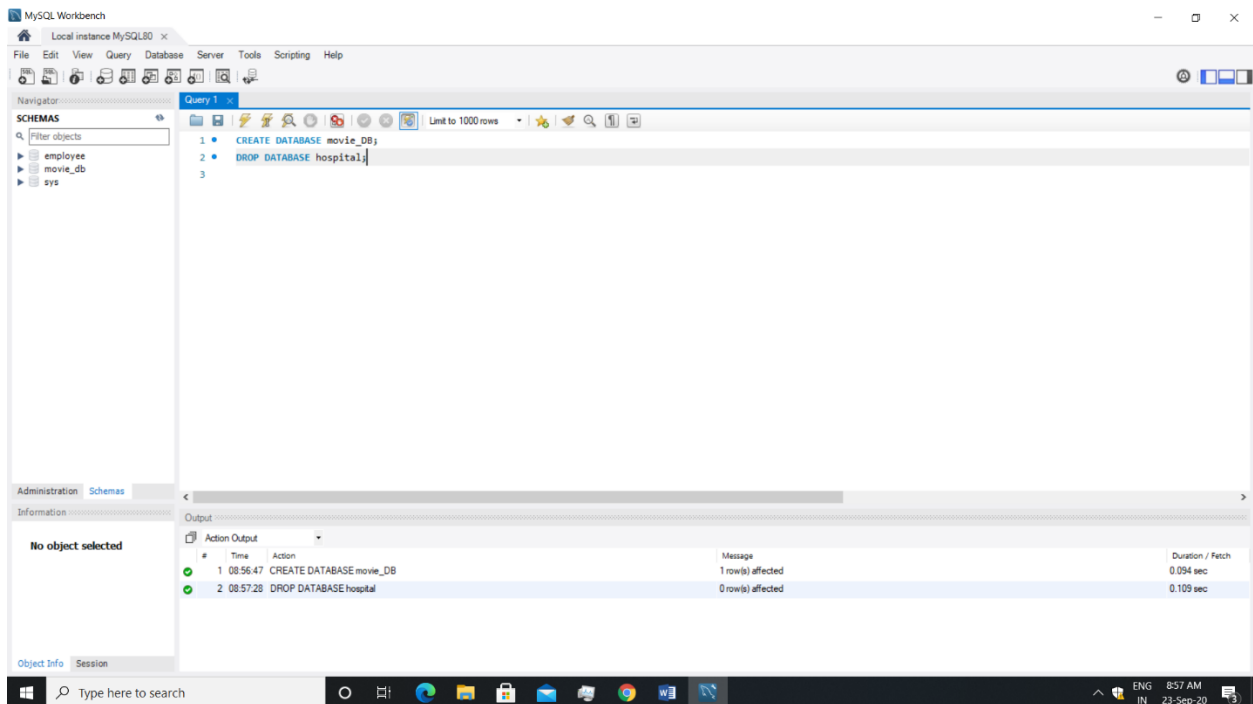


OUTPUT:



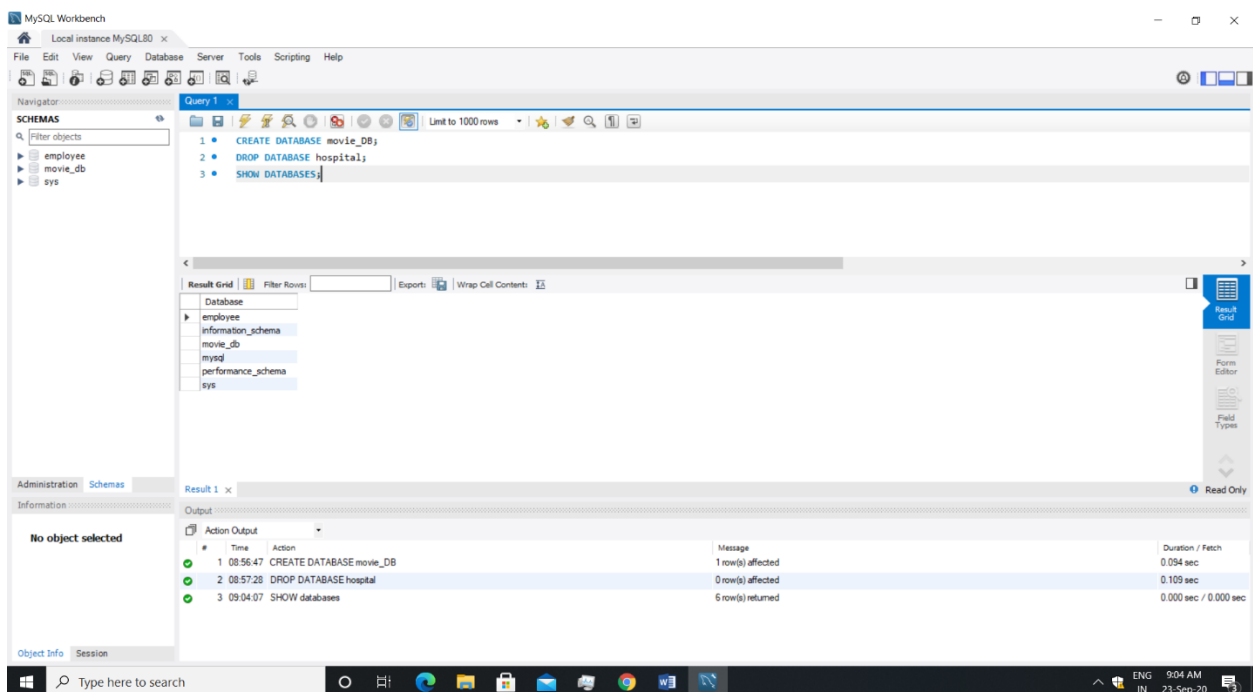
DROP DATABASE:

Hospital Database is deleted from the previous image.



Show all the Databases in system

Query with output



### 3. Create Table for your Database

Query:

The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following script:

```
1 CREATE DATABASE movie_db;
2 DROP DATABASE hospital;
3 SHOW DATABASES;
4 USE movie_db;
5 CREATE TABLE actor
6 (
7     actor_id int primary key,
8     actor_fname varchar(45) NOT NULL,
9     actor_lname varchar(45) NOT NULL,
10    actor_gender char(10) NOT NULL,
11    actor_DOB int NOT NULL
12 );
```

The Output window shows the execution results:

#	Time	Action	Message	Duration / Fetch
29	15:12:18	SELECT actor_fname FROM actor LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
30	15:18:37	SELECT * FROM actor WHERE actor_id = 3 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
31	15:24:34	SELECT * FROM actor WHERE actor_lname IS NULL LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
32	15:24:55	SELECT * FROM actor WHERE actor_lname IS NOT NULL LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
33	15:37:06	CREATE TABLE Orders ( movie_id int NOT NULL, num_o_stars int NOT NULL, PRIMARY KEY (movie_id, num_o_stars), FOREIGN KEY (movie_id) REFERENCES movie (movie_id) ON DELETE CASCADE )	Error Code: 1822. Failed to add the foreign key constraint. Missing index for constraint 'orders_fk_1' in the refer...	0.032 sec
34	15:38:12	CREATE TABLE ratings ( movie_id int NOT NULL, num_o_stars int NOT NULL, FOREIGN KEY (movie_id) REFERENCES movie (movie_id) ON DELETE CASCADE )	Error Code: 1822. Failed to add the foreign key constraint. Missing index for constraint 'ratings_fk_1' in the refer...	0.000 sec

Output:

Created Table and showed the schemas

The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following script:

```
5 actor_fname varchar(45) NOT NULL,
6 actor_lname varchar(45) NOT NULL,
7 actor_gender char(10) NOT NULL,
8 actor_DOB int NOT NULL
9 );
10 DESC actor;
```

The Output window shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	10:43:14	CREATE TABLE actor ( actor_id int primary key, actor_fname varchar(45) NOT NULL, actor_lname varchar(45) NOT NULL, actor_gender char(10) NOT NULL, actor_DOB int NOT NULL )	Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the SCH...	0.000 sec
2	10:44:00	USE movie_db	0 row(s) affected	0.000 sec
3	10:44:00	CREATE TABLE actor ( actor_id int primary key, actor_fname varchar(45) NOT NULL, actor_lname varchar(45) NOT NULL, actor_gender char(10) NOT NULL, actor_DOB int NOT NULL )	0 row(s) affected	0.313 sec
4	10:44:38	DESC actor	5 row(s) returned	0.000 sec / 0.000 sec

The Result Grid shows the schema of the actor table:

Field	Type	Null	Key	Default	Extra
actor_id	int	NO	PRI		
actor_fname	varchar(45)	NO			
actor_lname	varchar(45)	NO			
actor_gender	char(10)	NO			
actor_DOB	int	NO			

Select statement used for creating table along with the output:

The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying the following SQL statements:

```
1 USE movie_db;
2 CREATE TABLE movie_cast
3 AS (SELECT actor_id FROM actor);
4 DESC movie_cast;
```

The 'Result Grid' shows the output of the 'DESC movie\_cast' statement:

Field	Type	Null	Key	Default	Extra
actor_id	int	NO			

The 'Output' tab shows the execution log:

#	Time	Action	Message	Duration / Fetch
5	13:18:03	CREATE TABLE rating [AS] SELECT * FROM actor	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
6	13:20:13	CREATE TABLE new_table AS (SELECT * FROM actor)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.375 sec
7	13:21:39	DESC new_table	5 row(s) returned	0.000 sec / 0.000 sec
8	13:28:27	DROP TABLE movie	0 row(s) affected	0.516 sec
9	14:01:27	CREATE TABLE movie_cast AS (SELECT actor_id FROM actor)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.609 sec
10	14:02:17	DESC movie_cast	1 row(s) returned	0.000 sec / 0.000 sec

All the tables from the Database:

The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying the following SQL statements:

```
13
14 CREATE TABLE movie_cast
15 AS (SELECT actor_id FROM actor);
16 DESC movie_cast;
17
18 SHOW TABLES;
```

The 'Result Grid' shows the output of the 'SHOW TABLES' statement:

Tables_in_movie_db
actor
movie_cast

The 'Output' tab shows the execution log:

#	Time	Action	Message	Duration / Fetch
4	14:13:58	CREATE TABLE actor (actor_id int primary key, actor_name varchar(45) NOT NULL, actor_name varchar(45)...	Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the SC...	0.000 sec
5	14:14:05	USE movie_db	0 row(s) affected	0.000 sec
6	14:14:10	CREATE TABLE actor (actor_id int primary key, actor_name varchar(45) NOT NULL, actor_name varchar(45)...	0 row(s) affected	1.172 sec
7	14:16:45	CREATE TABLE movie_cast AS (SELECT actor_id FROM actor)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.329 sec
8	14:16:57	DESC movie_cast	1 row(s) returned	0.189 sec / 0.000 sec
9	14:26:40	SHOW TABLES	2 row(s) returned	0.032 sec / 0.000 sec

## Inserting in the Database:

The screenshot shows the MySQL Workbench interface with a SQL editor containing the following queries:

```
22
23 INSERT INTO actor (actor_id, actor_fname, actor_lname, actor_gender, actor_DOB)
24 VALUES (1, 'RANBIR', 'KAPOOR', 'MALE', '25-06-85');
25 INSERT actor
26 VALUES (2, 'DEEPIKA', 'PADUKONE', 'FEMALE', '05-08-86');
27 INSERT actor
28 VALUES (3, 'PARESH', 'RAIWA', 'MALE', '06-09-66');
29 INSERT actor
30 VALUES (4, 'AKSHAY', 'KUMAR', 'MALE', '02-03-73');
31 INSERT actor
32 VALUES (5, 'RANI', 'MUKHERJI', 'FEMALE', '21-12-80');
33
34
35
36
37
38
39
40
```

The Output tab shows the execution results:

#	Time	Action	Message	Duration / Fetch
22	14:59:43	SELECT * FROM 'actor' LIMIT 0.1000	1 row(s) returned	0.000 sec / 0.000 sec
23	15:01:54	INSERT actor VALUES (2, 'DEEPIKA', 'PADUKONE', 'FEMALE', '05-08-86')	1 row(s) affected	0.094 sec
24	15:03:22	INSERT actor VALUES (3, 'PARESH', 'RAIWA', 'MALE', '06-09-66')	1 row(s) affected	0.125 sec
25	15:05:00	INSERT actor VALUES (4, 'AKSHAY', 'KUMAR', 'MALE', '02-03-73')	1 row(s) affected	0.062 sec
26	15:06:33	INSERT actor VALUES (5, 'RANI', 'MUKHERJI', 'FEMALE', '21-12-80')	1 row(s) affected	0.094 sec
27	15:09:59	SELECT * FROM 'actor' LIMIT 0.1000	5 row(s) returned	0.000 sec / 0.000 sec

## Output:

The screenshot shows the MySQL Workbench interface with the SQL editor displaying the following queries:

```
29 INSERT actor
30 VALUES (4, 'AKSHAY', 'KUMAR', 'MALE', '02-03-73');
31 INSERT actor
32 VALUES (5, 'RANI', 'MUKHERJI', 'FEMALE', '21-12-80');
33
34 SELECT * FROM 'actor';
```

The Result Grid shows the output of the last query:

actor_id	actor_fname	actor_lname	actor_gender	actor_DOB
1	RANBIR	KAPOOR	MALE	25-06-85
2	DEEPIKA	PADUKONE	FEMALE	05-08-86
3	PARESH	RAIWA	MALE	06-09-66
4	AKSHAY	KUMAR	MALE	02-03-73
5	RANI	MUKHERJI	FEMALE	21-12-80

The Output tab shows the execution results:

#	Time	Action	Message	Duration / Fetch
23	15:01:54	INSERT actor VALUES (2, 'DEEPIKA', 'PADUKONE', 'FEMALE', '05-08-86')	1 row(s) affected	0.094 sec
24	15:03:22	INSERT actor VALUES (3, 'PARESH', 'RAIWA', 'MALE', '06-09-66')	1 row(s) affected	0.125 sec
25	15:05:00	INSERT actor VALUES (4, 'AKSHAY', 'KUMAR', 'MALE', '02-03-73')	1 row(s) affected	0.062 sec
26	15:06:33	INSERT actor VALUES (5, 'RANI', 'MUKHERJI', 'FEMALE', '21-12-80')	1 row(s) affected	0.094 sec
27	15:09:59	SELECT * FROM 'actor' LIMIT 0.1000	5 row(s) returned	0.000 sec / 0.000 sec
28	15:11:01	SELECT * FROM 'actor' LIMIT 0.1000	5 row(s) returned	0.000 sec / 0.000 sec

## Usage of simple select statement:

The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying the following SQL code:

```
31 INSERT actor
32 VALUES (5, 'RANI', 'MUKHERJI', 'FEMALE', '21-12-88');
33
34 SELECT * FROM 'actor';
35
36 SELECT actor_fname FROM actor;
```

The 'Result Grid' is visible, showing the output of the last query. The output is a table with one column, 'actor\_fname', and five rows of data:

actor_fname
RANBIR
DEEPIKA
PARESH
AKSHAY
RANI

The 'Action Output' pane at the bottom shows the execution log, including the time taken for each statement and the number of rows affected or returned.

## Select statement using relational operator along with output:

The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying the following SQL code:

```
35 SELECT actor_fname FROM actor;
36
37 SELECT *
38 FROM actor
39 WHERE actor_id = 3;
```

The 'Result Grid' is visible, showing the output of the last query. The output is a table with five columns: 'actor\_id', 'actor\_fname', 'actor\_lname', 'actor\_gender', and 'actor\_DOB'. It contains one row of data:

actor_id	actor_fname	actor_lname	actor_gender	actor_DOB
3	PARESH	RAIWAL	MALE	06-09-66

The 'Action Output' pane at the bottom shows the execution log, including the time taken for each statement and the number of rows affected or returned.

Select statement using logical operator along with output:

The screenshot shows the MySQL Workbench interface. The 'Query 1' window contains the following SQL code:

```
39 FROM actor
40 WHERE actor_id = 3;
41
42 SELECT *
43 FROM actor
44 WHERE actor_name IS NOT NULL;
```

The 'Result Grid' shows the output of the query, displaying columns: actor\_id, actor\_fname, actor\_lname, actor\_gender, actor\_DOB. The results are:

actor_id	actor_fname	actor_lname	actor_gender	actor_DOB
1	RANBIR	KAPOOR	MALE	25-06-85
2	DEEPIKA	PADUKONE	FEMALE	05-08-86
3	PARESH	RAIWAJ	MALE	06-09-66
4	AKSHAY	KUMAR	MALE	02-03-73
5	RANI	MUKHERJII	FEMALE	21-12-80

The 'Output' window shows the execution log with messages like '5 row(s) returned' and '0.000 sec / 0.000 sec'.

Simple subquery using select:

The screenshot shows the MySQL Workbench interface. The 'Query 1' window contains the following SQL code:

```
48 DESC actor;
49
50 SELECT actor_fname, actor_lname
51 FROM actor
52 WHERE actor_gender = "female";
```

The 'Result Grid' shows the output of the query, displaying columns: actor\_fname, actor\_lname. The results are:

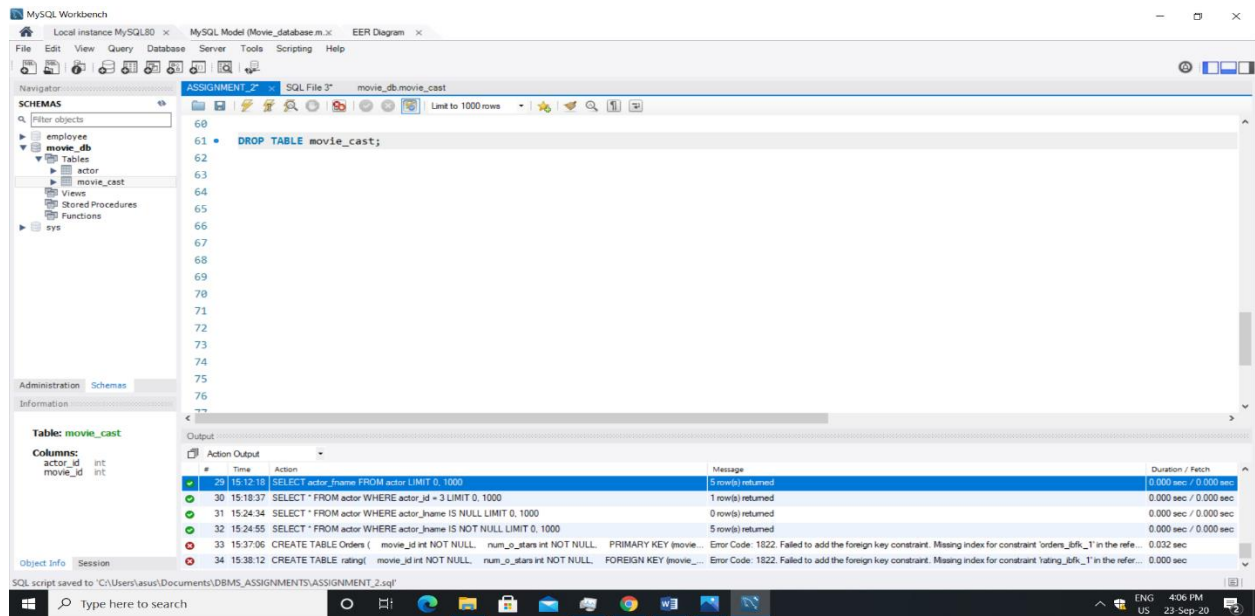
actor_fname	actor_lname
DEEPIKA	PADUKONE
RANI	MUKHERJII

The 'Output' window shows the execution log with messages like '5 row(s) returned' and '0.000 sec / 0.000 sec'.



Drop a table:

Query for removing table movie\_cast



Output:

As we can look in the schemas in tables movie\_cast has been removed.

