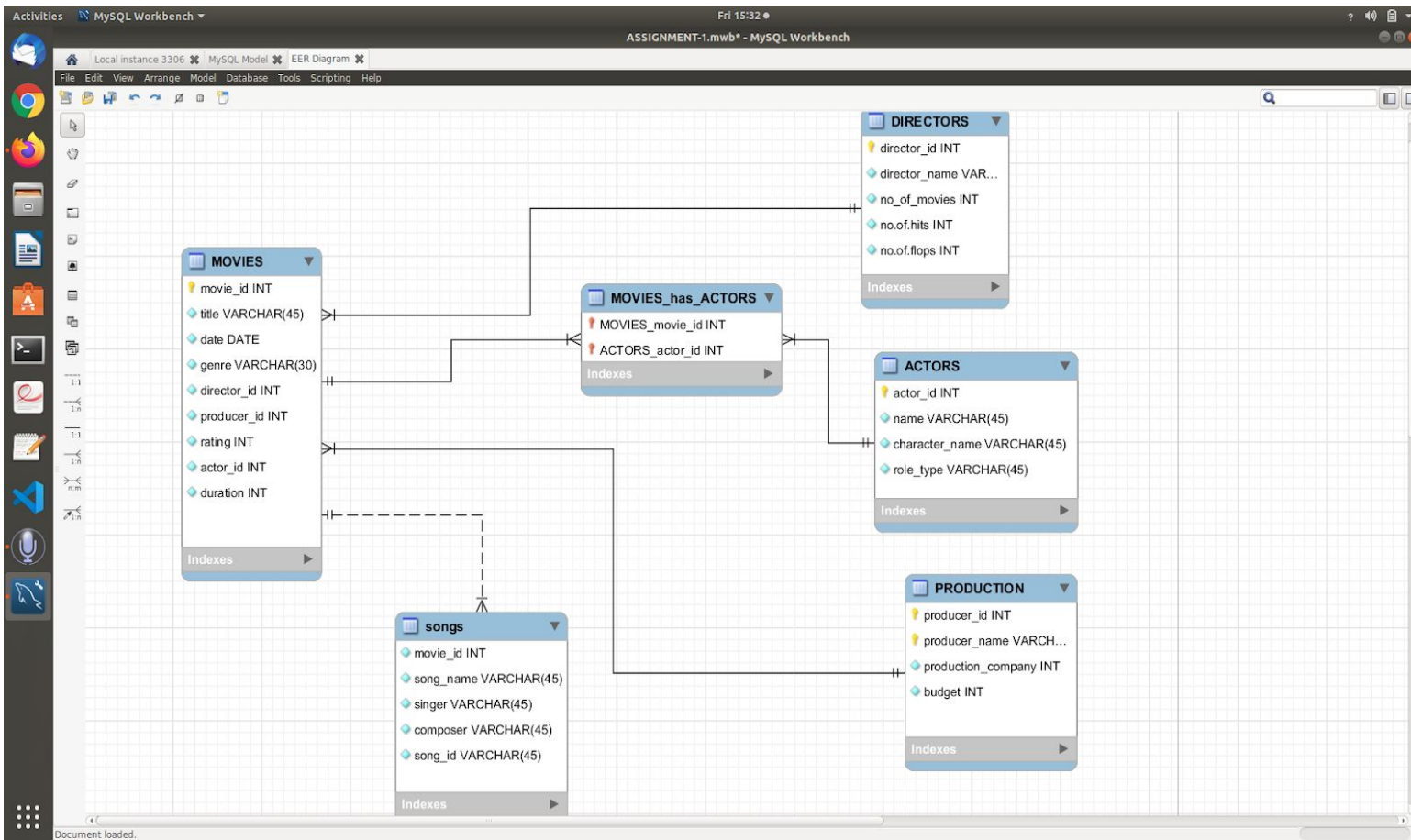


ASSIGNMENT-2

1. Showcase one Many-Many relation.

Output: Here MOVIES TO ACTORS has many to many relation



2. Represent Composite key and Weak Entity in your Database

Weak entity :

songs

(because it has no primary key and it is completely dependent on MOVIES)

Composite key :

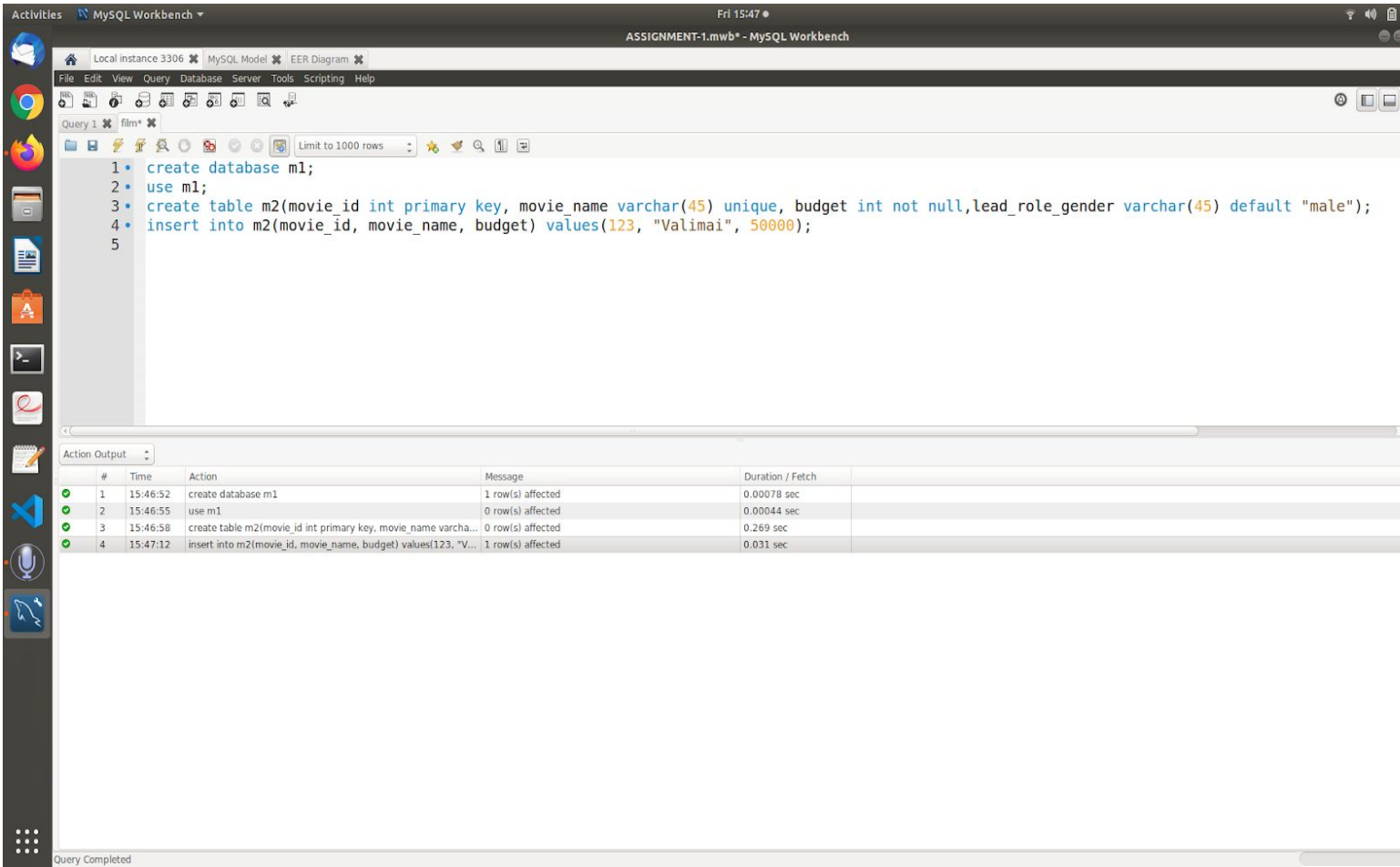
In MOVIES_has_ACTORS entity:

primary_key(MOVIES_movie_id,ACTORS_actor_id)

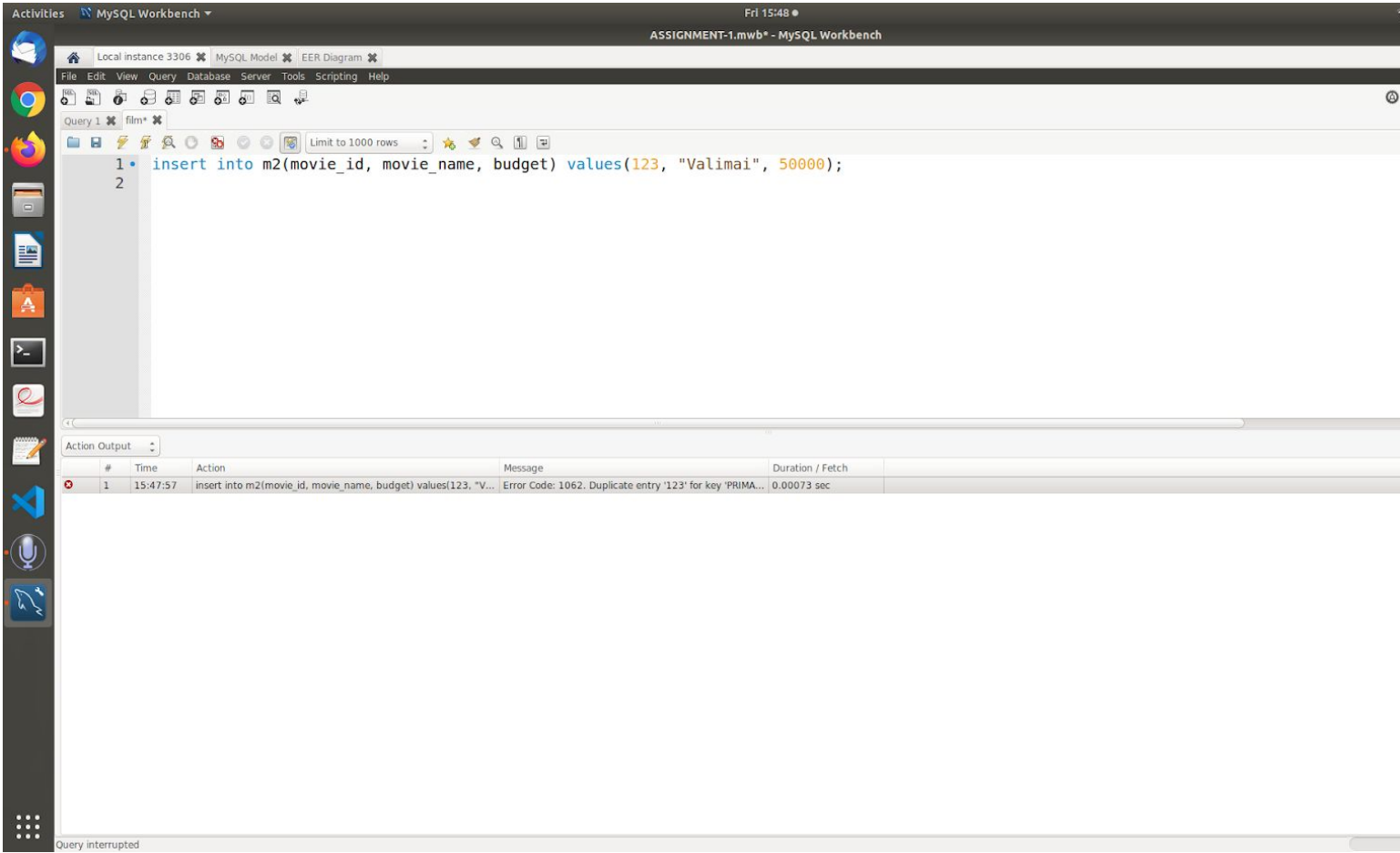
3. Show Violation of Primary Key, Unique Not Null and default key constraints through insertion.

i)violation of primary key

Created table m2 with primary key 123 :

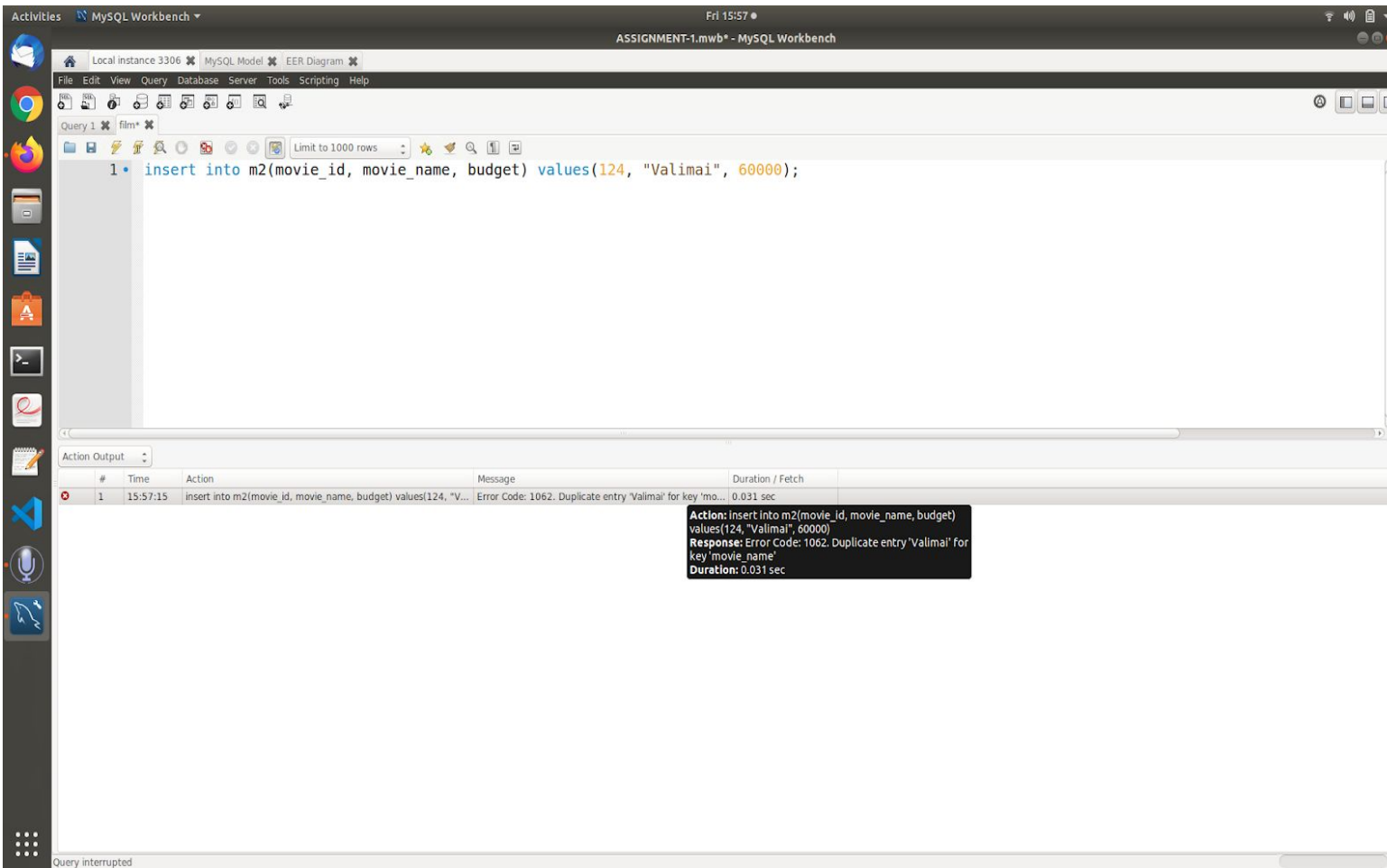


Now if i try to insert values with same primary key(123) ,it shows duplicate entry, which means there already tuple with primary key as 123.so it clearly shows the violation of primary key



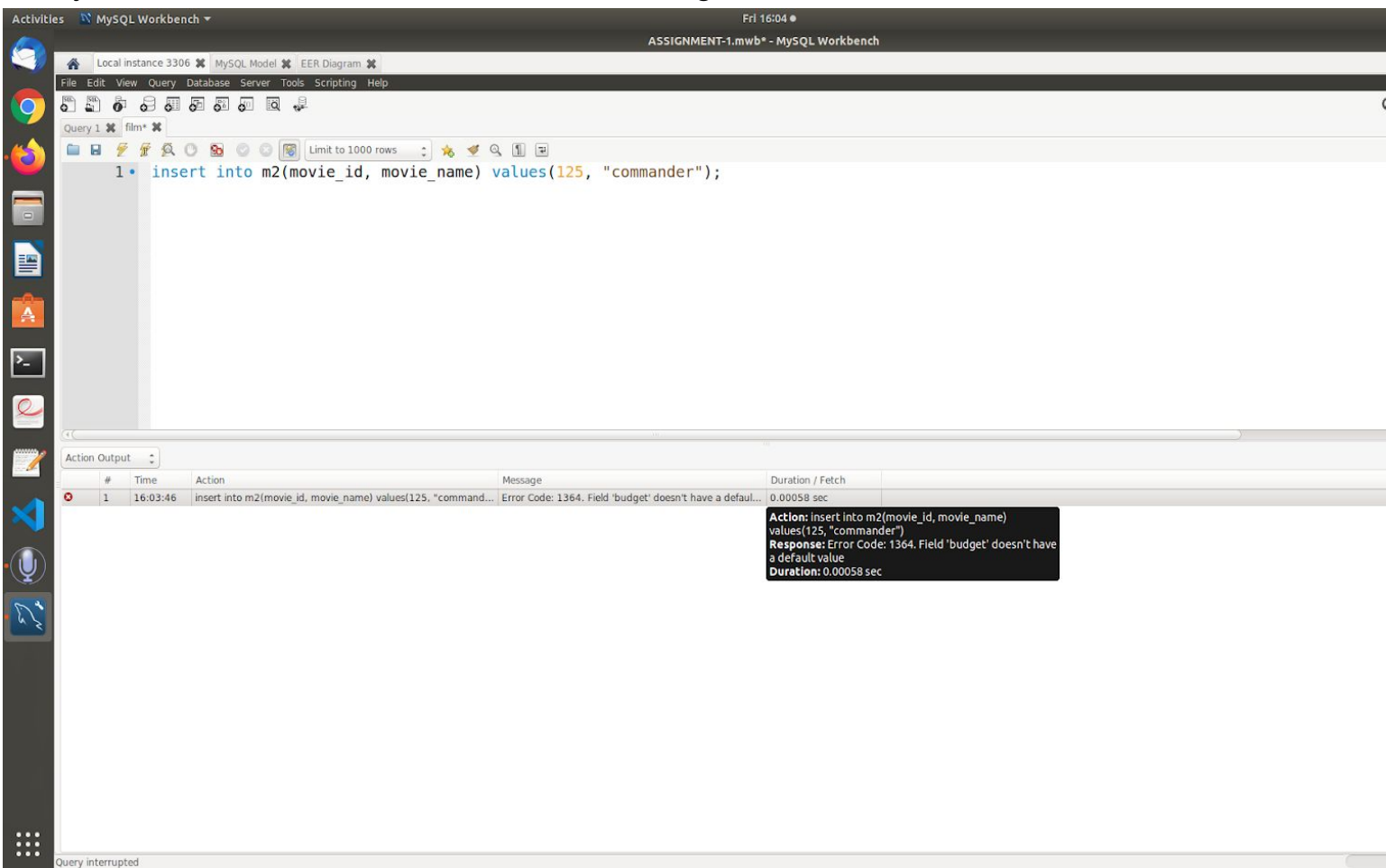
ii)violation of unique constraint

In the above screenshot we can see that movie_name “valimai” has already been inserted ,now if we try to insert same movie_name “valimai” with different primary key,it shows that movie_name should be unique



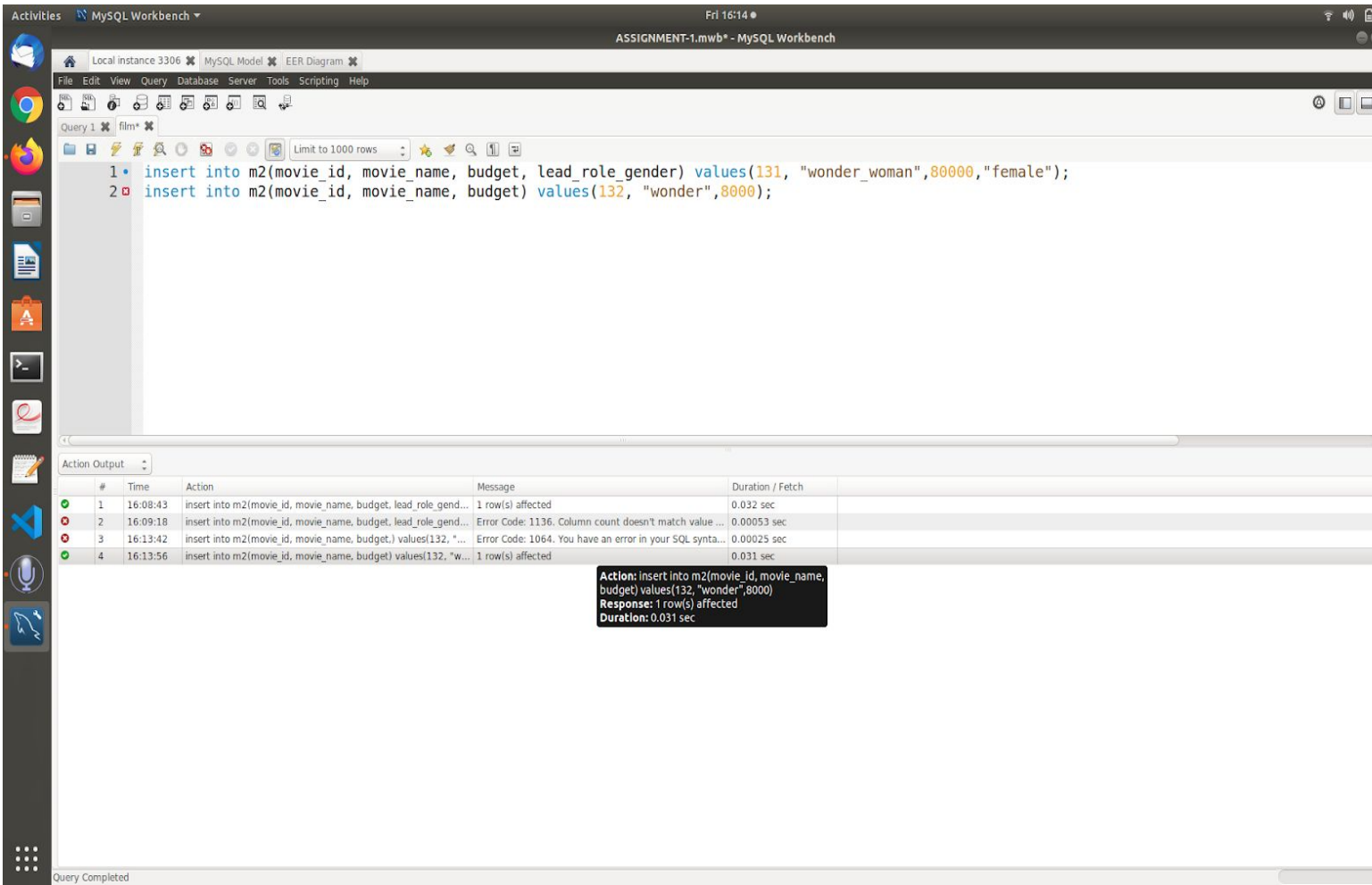
iii)violation of not null constraint

While creating table m2 we created attribute “budget” with not null constraint now if we try to insert into table with no value for “budget” it violates the not null constraint



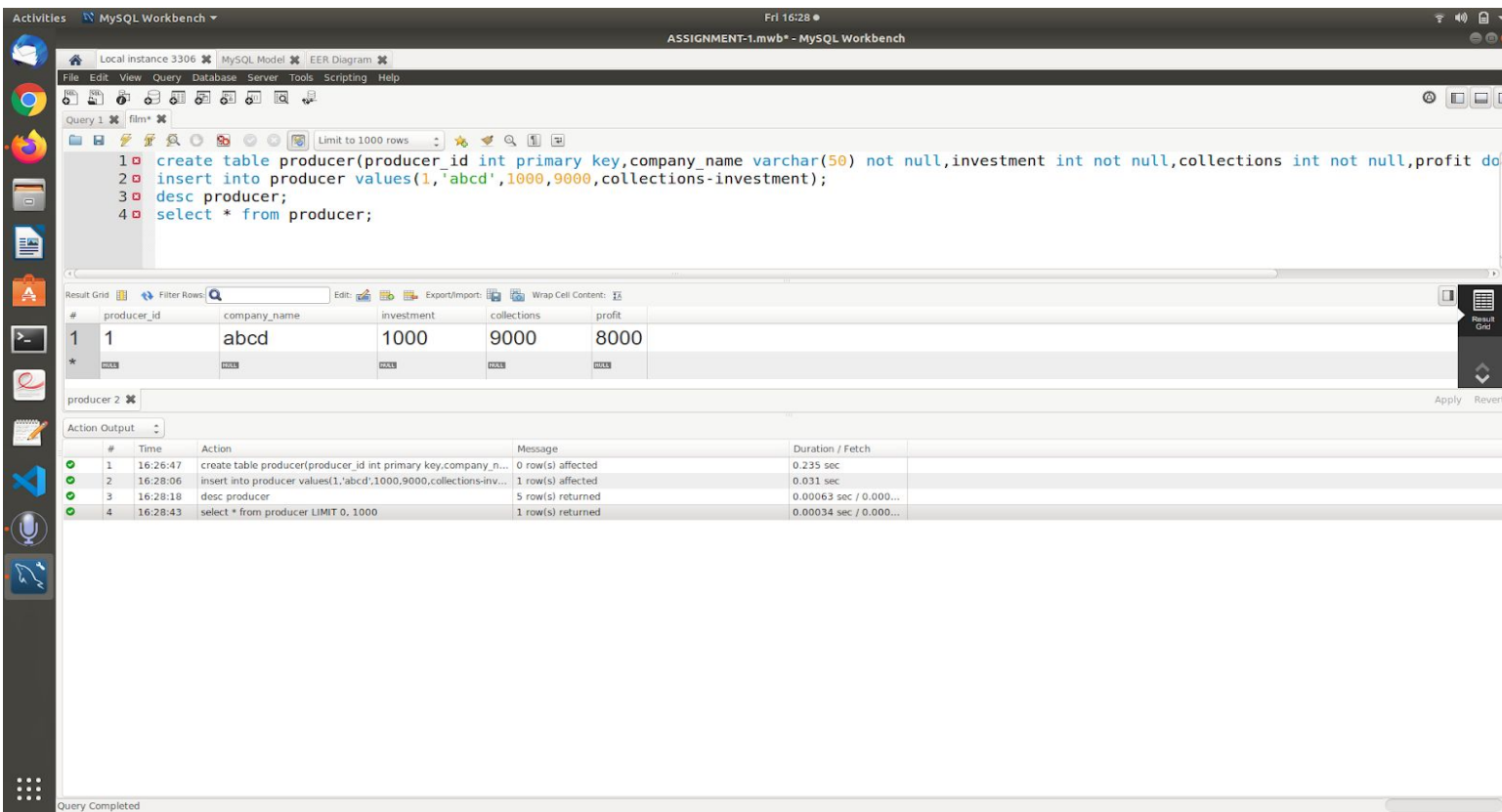
iv) default key constraints

Here for lead_role_gender attribute we gave default value as “male”,so if we try to insert values into table without mentioning any value for lead_role_gender ,it will successfully execute without any error



4. One Derived attribute should be added to the Database design

Here in the table producer,the attribute profits is derived from attributes collections and investments i.e
profits=collections-investments



5. Insert tuples into the table and see how foreign key constraint works if you try to insert into the dependent table first.

Here in table songs1 the foreign key is “movie_id” referencing table “m2”. Initially we did not insert any value with primary key “456” in table “m2”,so if we try to insert values to table “songs1” with movie_id as “456” it violates foreign key constraint

ActivitiesMySQL Workbench

ASSIGNMENT-1.mwb* - MySQL Workbench

Local instance 3306MySQL ModelEER Diagram

FileEditViewQueryDatabaseServerToolsScriptingHelp

Query 1film*Limit to 1000 rows

```
1 create table songs1(movie_id int,song_id int,song_name varchar(45), singer varchar(45), composer varchar(45),
2 foreign key(movie_id) references m2(movie_id));
3 insert into songs1 values(456,5,"Dil_bechara", "Mariam", "ar_rahman");
4
```

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:38:24	create table songs1(movie_id int,song_id int,song_name varchar...	0 row(s) affected	0.365 sec
2	16:38:28	insert into songs1 values(456,5,"Dil_bechara", "Mariam", "ar_r...	Error Code: 1452. Cannot add or update a child row: a...	0.044 sec

Action: insert into songs1 values(456,5,"Dil_bechara", "Mariam", "ar_rahman")

Response: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('m1'. 'songs1', CONSTRAINT 'songs1_ibfk_1' FOREIGN KEY ('movie_id') REFERENCES 'm2' ('movie_id'))

Duration: 0.044 sec

Query interrupted