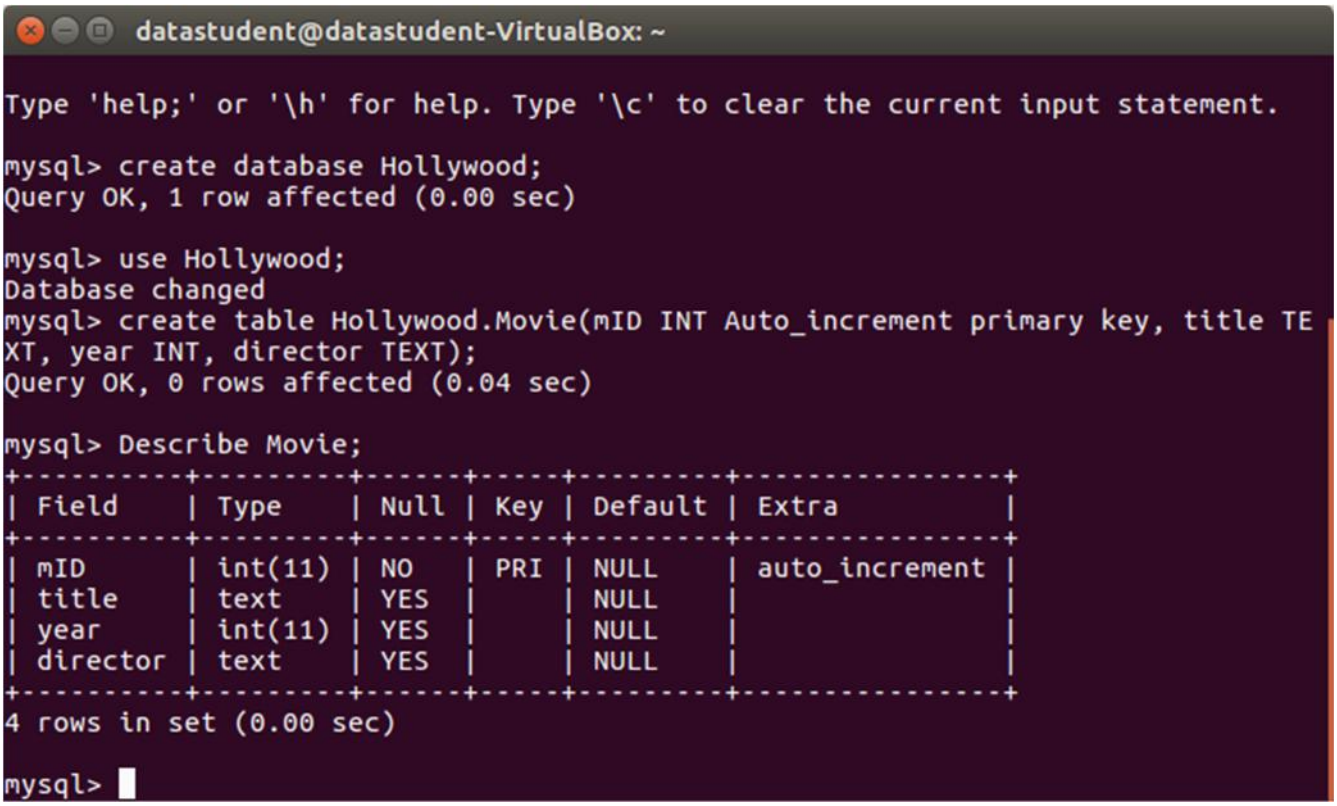
MG

Question 1

Create a database ’Hollywood’, Table Movie- auto increment, pk.



```
datastudent@datastudent-VirtualBox: ~

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database Hollywood;
Query OK, 1 row affected (0.00 sec)

mysql> use Hollywood;
Database changed
mysql> create table Hollywood.Movie(mID INT Auto_increment primary key, title TE
XT, year INT, director TEXT);
Query OK, 0 rows affected (0.04 sec)

mysql> Describe Movie;
+----------+---------+------+-----+---------+----------------+
| Field    | Type    | Null | Key | Default | Extra          |
+----------+---------+------+-----+---------+----------------+
| mID      | int(11) | NO   | PRI | NULL    | auto_increment |
| title    | text    | YES  |     | NULL    |                |
| year     | int(11) | YES  |     | NULL    |                |
| director | text    | YES  |     | NULL    |                |
+----------+---------+------+-----+---------+----------------+
4 rows in set (0.00 sec)

mysql>
```

5. The ’year’ column in the Movie table should not be greater than 2016

```
datastudent@datastudent-VirtualBox: ~
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near '' at
line 10
mysql> Delimiter $$
mysql> create trigger movie_year
    -> before insert on Movie
    -> for each row
    -> begin
    -> if new. year > 2016
    -> then
    -> signal sqlstate '02000' set message_text='Warning: year cannot be greathe
r than 2016!';
    -> end if;
    -> end $$
Query OK, 0 rows affected (0.00 sec)

mysql> delimiter ;
mysql>
mysql>
mysql> ^C
mysql> insert into Movie(mID,title, year, director)
    -> values('1','Gr', '2021', 'Farr');
ERROR 1643 (02000): Warning: year cannot be greather than 2016!
mysql>
```

MG

Creating Tables Reviewer and Reting –placing auto increment, pk's, default value of the 'ratingDate' column (as type timestamp and default current_timestamp)

```
datastudent@datastudent-VirtualBox: ~
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use Hollywood;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> create table Hollywood.Reviewer(rID INT AUTO_INCREMENT PRIMARY KEY, name
TEXT0;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'TEXT0
' at line 1
mysql>  create table Hollywood.Reviewer(rID INT AUTO_INCREMENT PRIMARY KEY, name
 TEXT);
Query OK, 0 rows affected (0.03 sec)

mysql> create table Hollywood.Reting(rID INT,mID INT, stars INT, ratingDate TIME
STAMP default CURRENT_TIMESTAMP);
Query OK, 0 rows affected (0.03 sec)

mysql> DESCRIBE Rating;
ERROR 1146 (42S02): Table 'Hollywood.Rating' doesn't exist
mysql> describe Reting;
+------------+-----------+------+-----+-------------------+-------+
| Field      | Type      | Null | Key | Default           | Extra |
+------------+-----------+------+-----+-------------------+-------+
| rID        | int(11)   | YES  |     | NULL              |       |
| mID        | int(11)   | YES  |     | NULL              |       |
| stars      | int(11)   | YES  |     | NULL              |       |
| ratingDate | timestamp | NO   |     | CURRENT_TIMESTAMP |       |
+------------+-----------+------+-----+-------------------+-------+
4 rows in set (0.00 sec)

mysql> alter table Reting add primary key (rID, mID);
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> alter table Reting add constraint fk_rID foreign key (rID) references Rev
```

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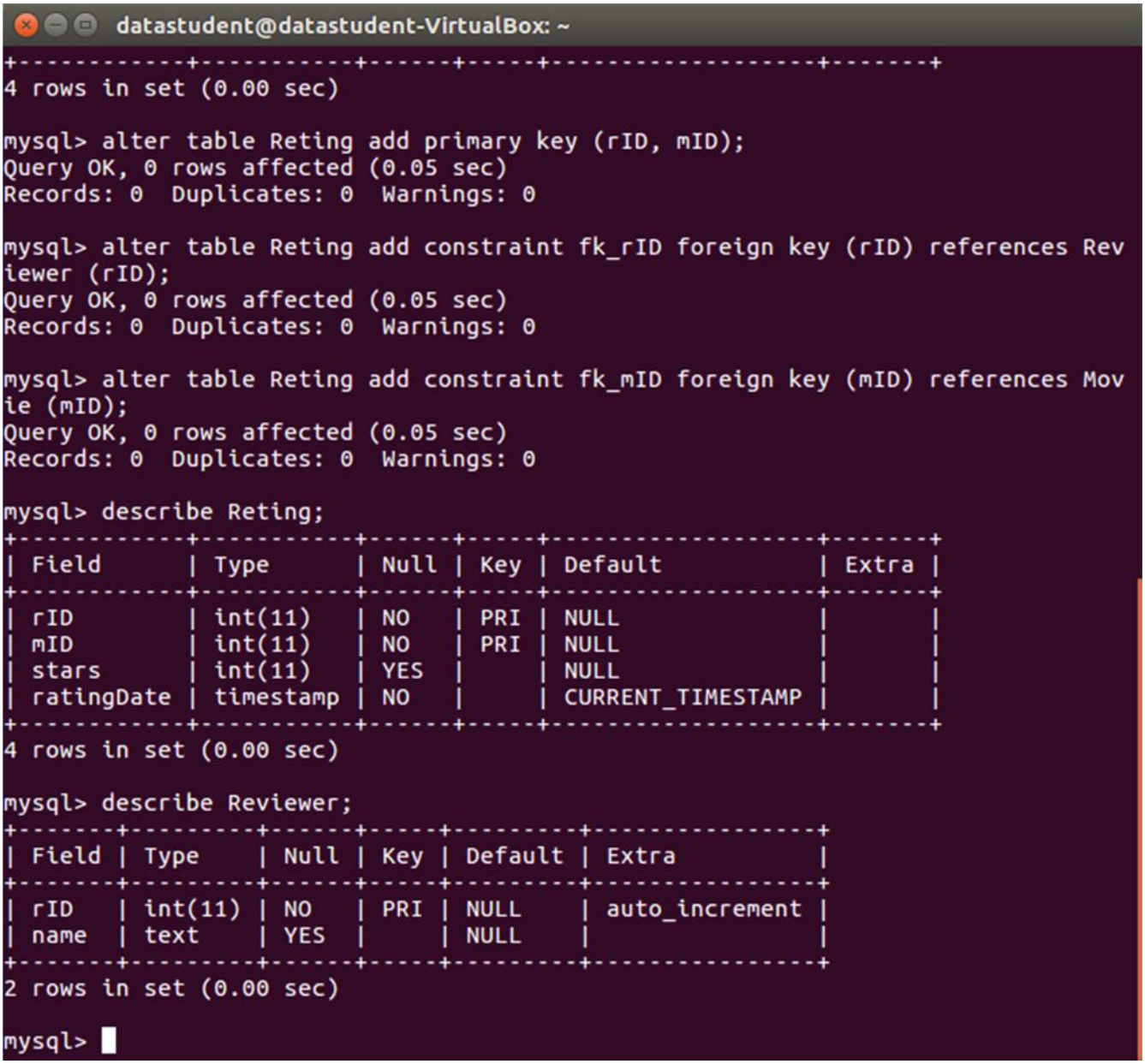
Adding Constrains FK’s



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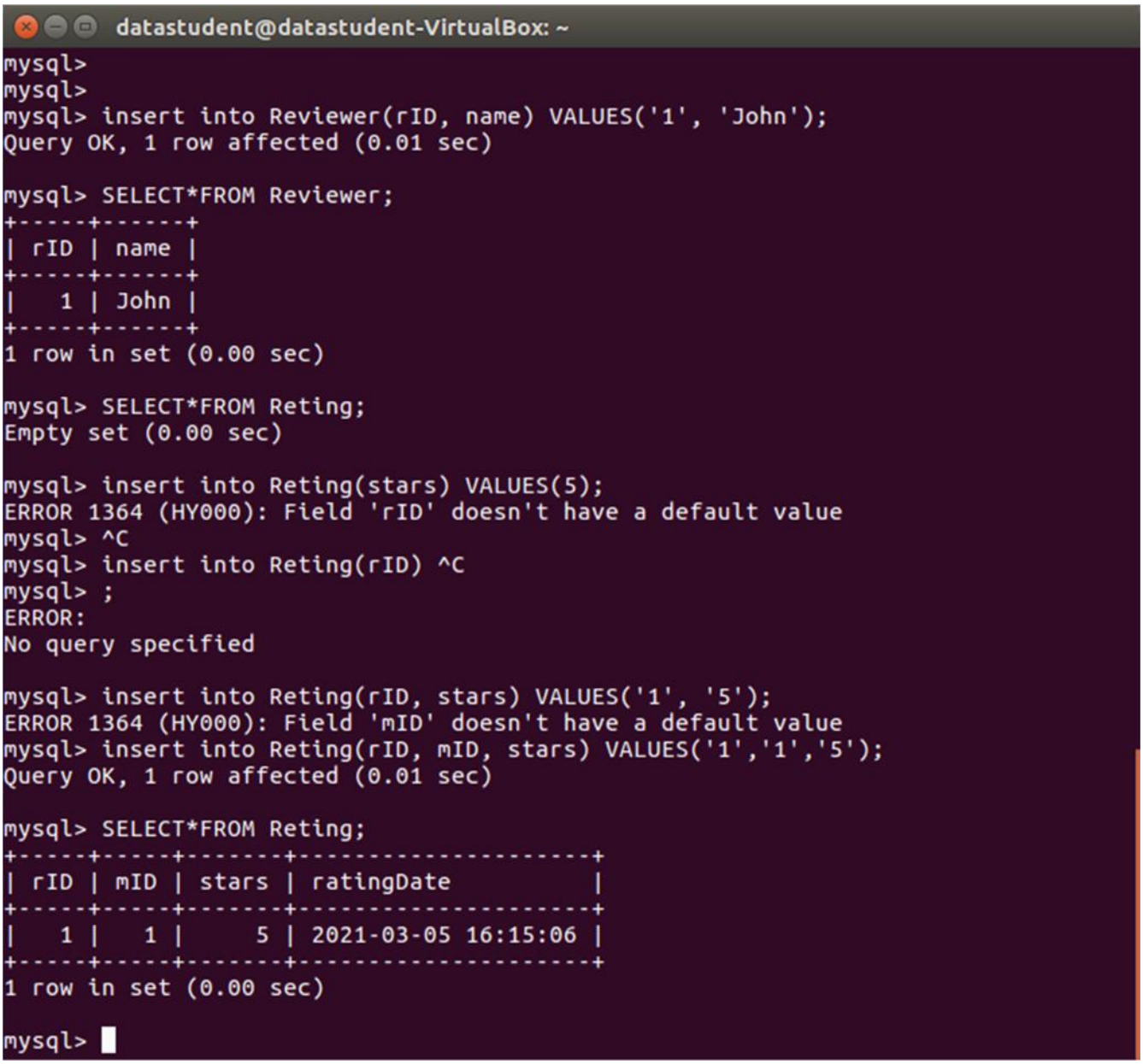
Inserting Values to Reviewer ad Reting



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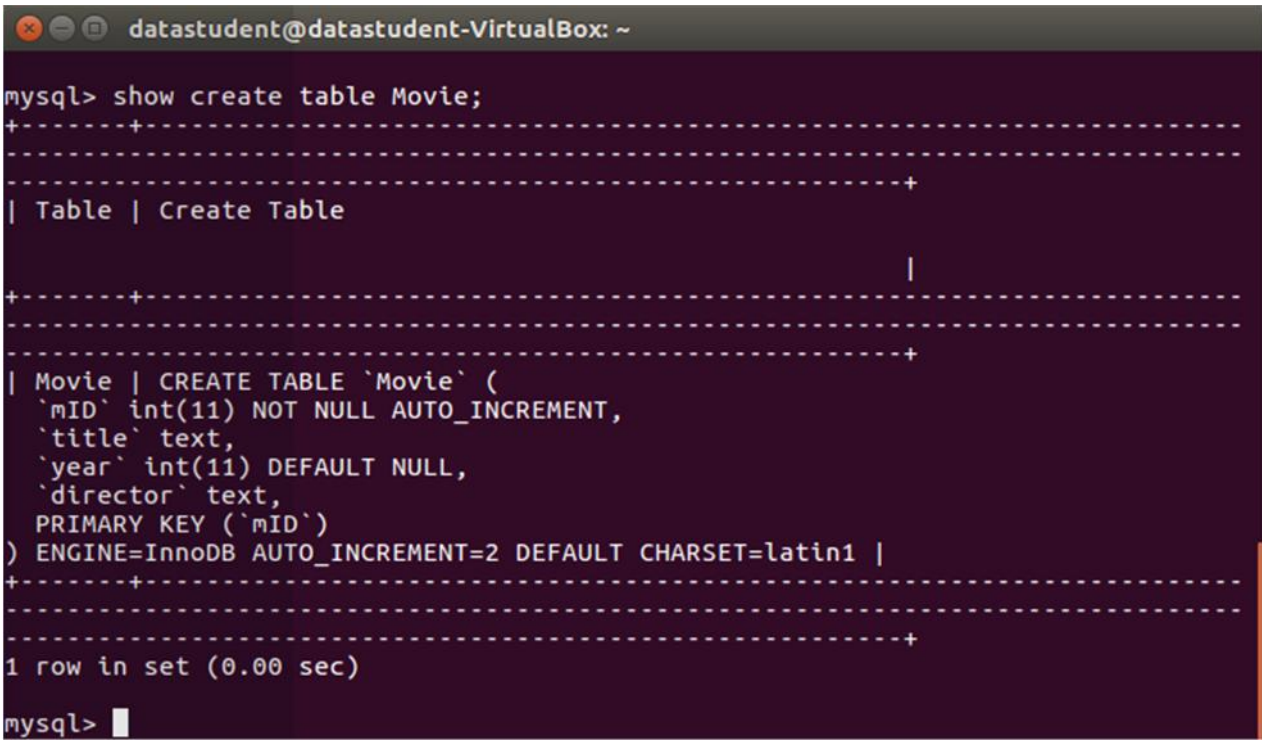
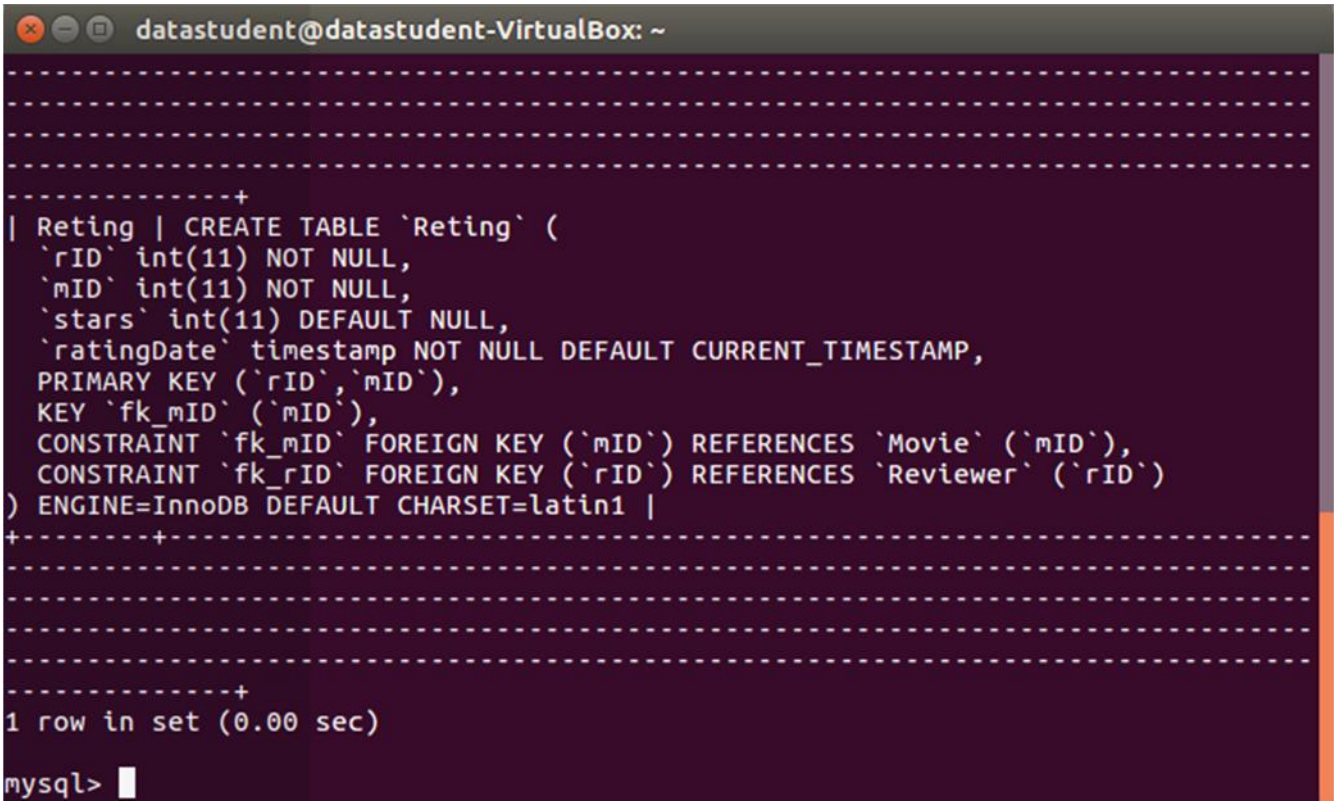
Showing all tables:





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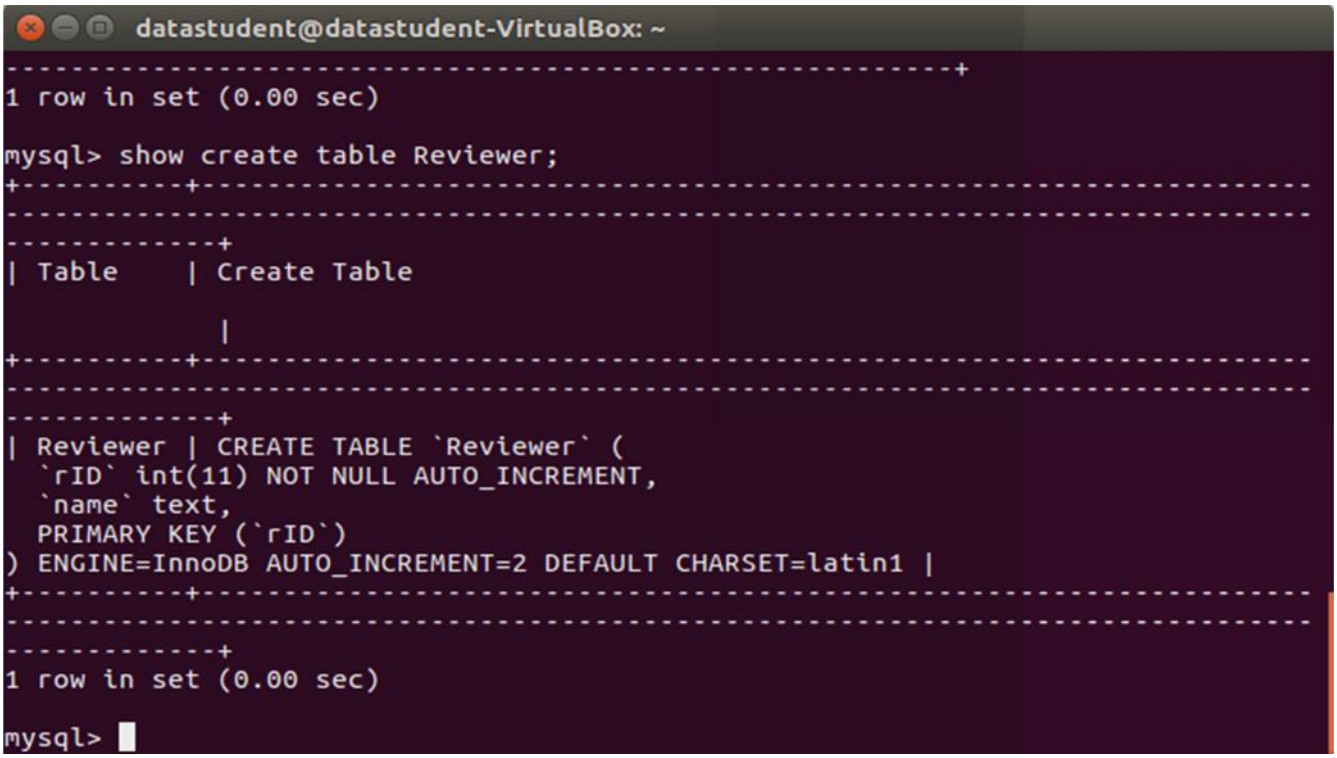

Question 2

Executing the script:

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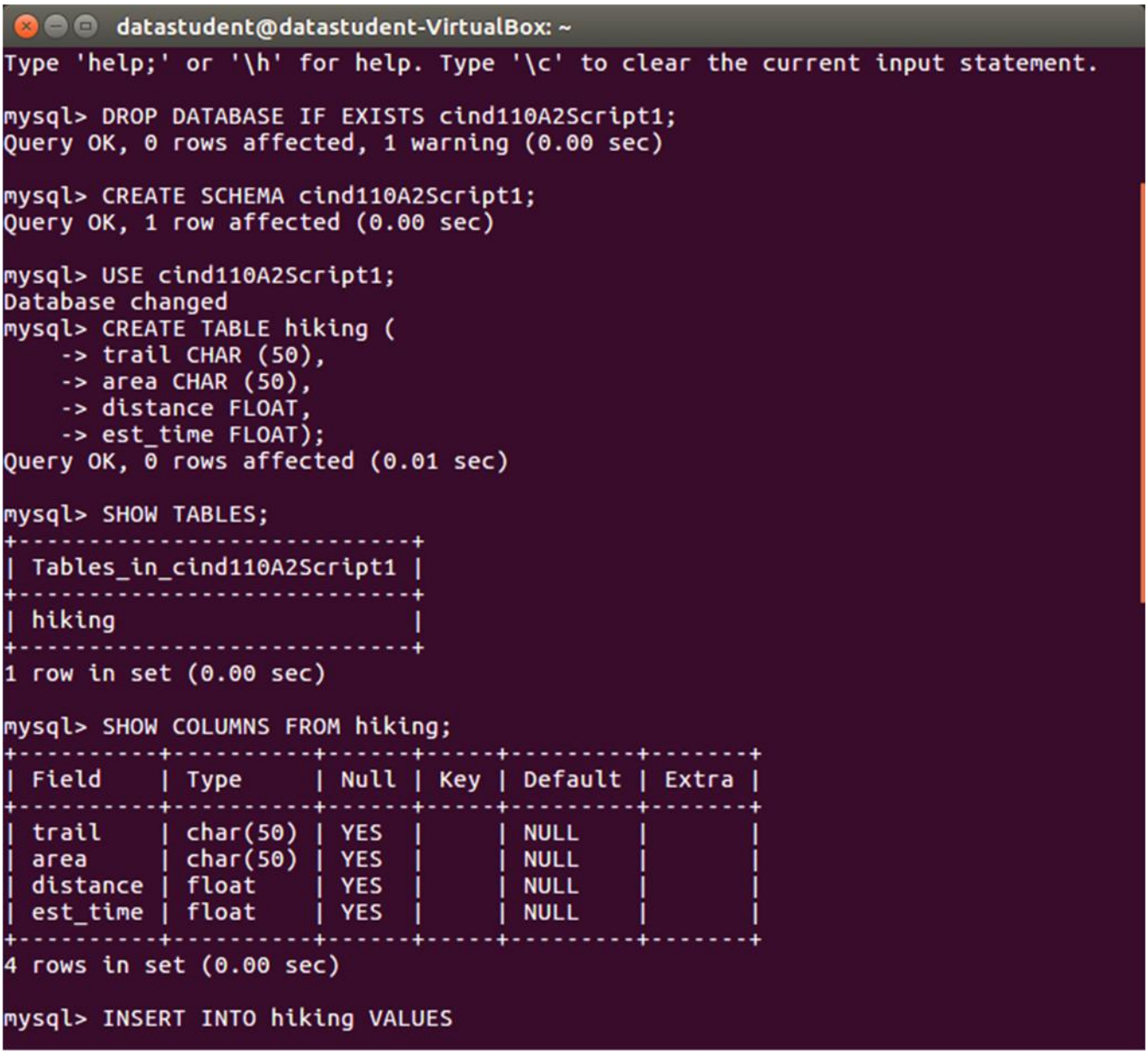
datastudent@datastudent-VirtualBox: ~
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> DROP DATABASE IF EXISTS cind110A2Script1;
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql> CREATE SCHEMA cind110A2Script1;
Query OK, 1 row affected (0.00 sec)
mysql> USE cind110A2Script1;
Database changed
mysql> CREATE TABLE hiking (
-> trail CHAR (50),
-> area CHAR (50),
-> distance FLOAT,
-> est_time FLOAT);
Query OK, 0 rows affected (0.01 sec)
mysql> SHOW TABLES;
| Tables_in_cind110A2Script1 |
| hiking |
1 row in set (0.00 sec)
mysql> SHOW COLUMNS FROM hiking;
Field	Type	Null	Key	Default	Extra
trail	char(50)	YES		NULL	
area	char(50)	YES		NULL	
distance	float	YES		NULL	
est_time	float	YES		NULL	
4 rows in set (0.00 sec)
mysql> INSERT INTO hiking VALUES

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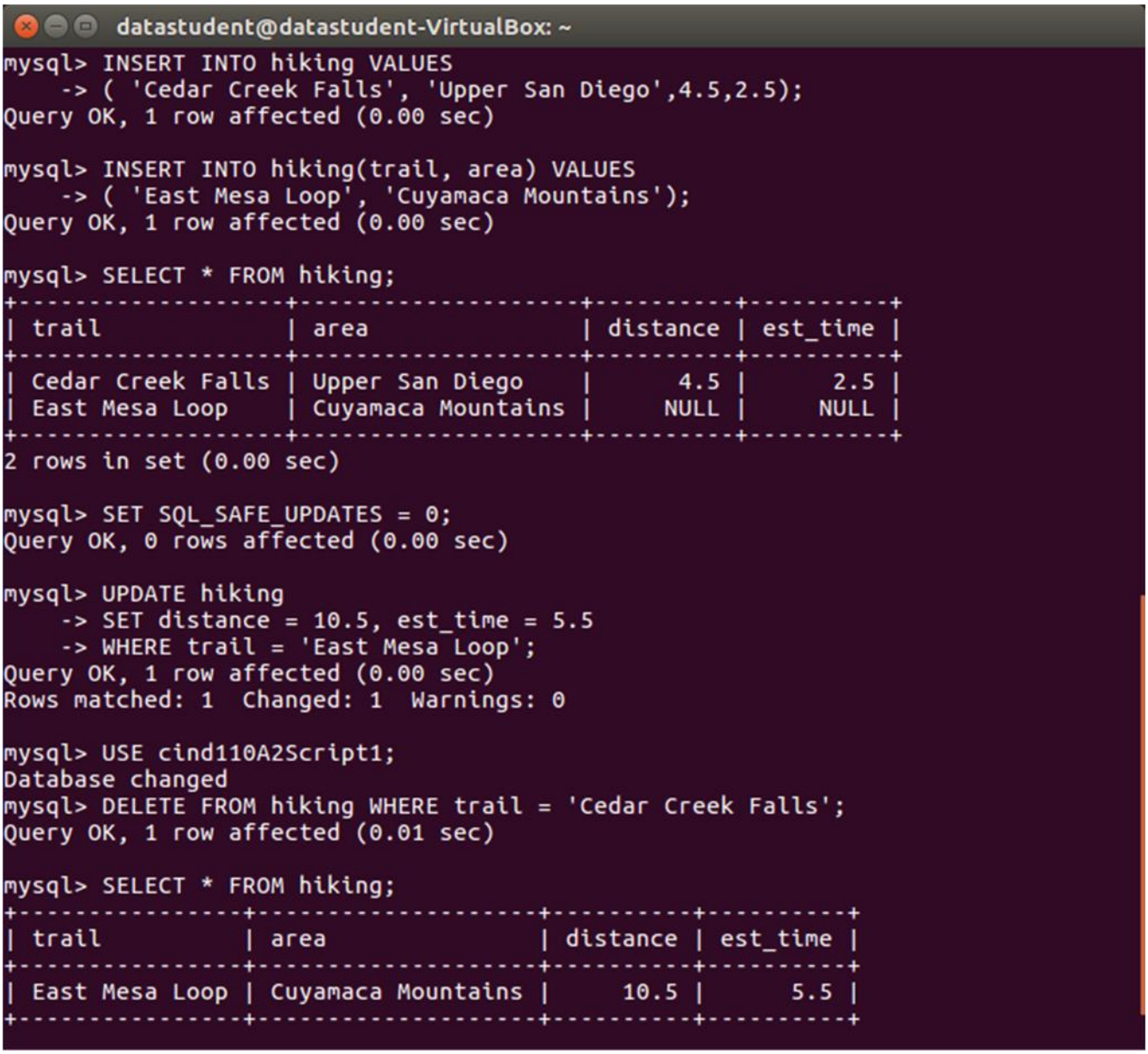

1. Write the SQL statements to insert the values into the hiking table:

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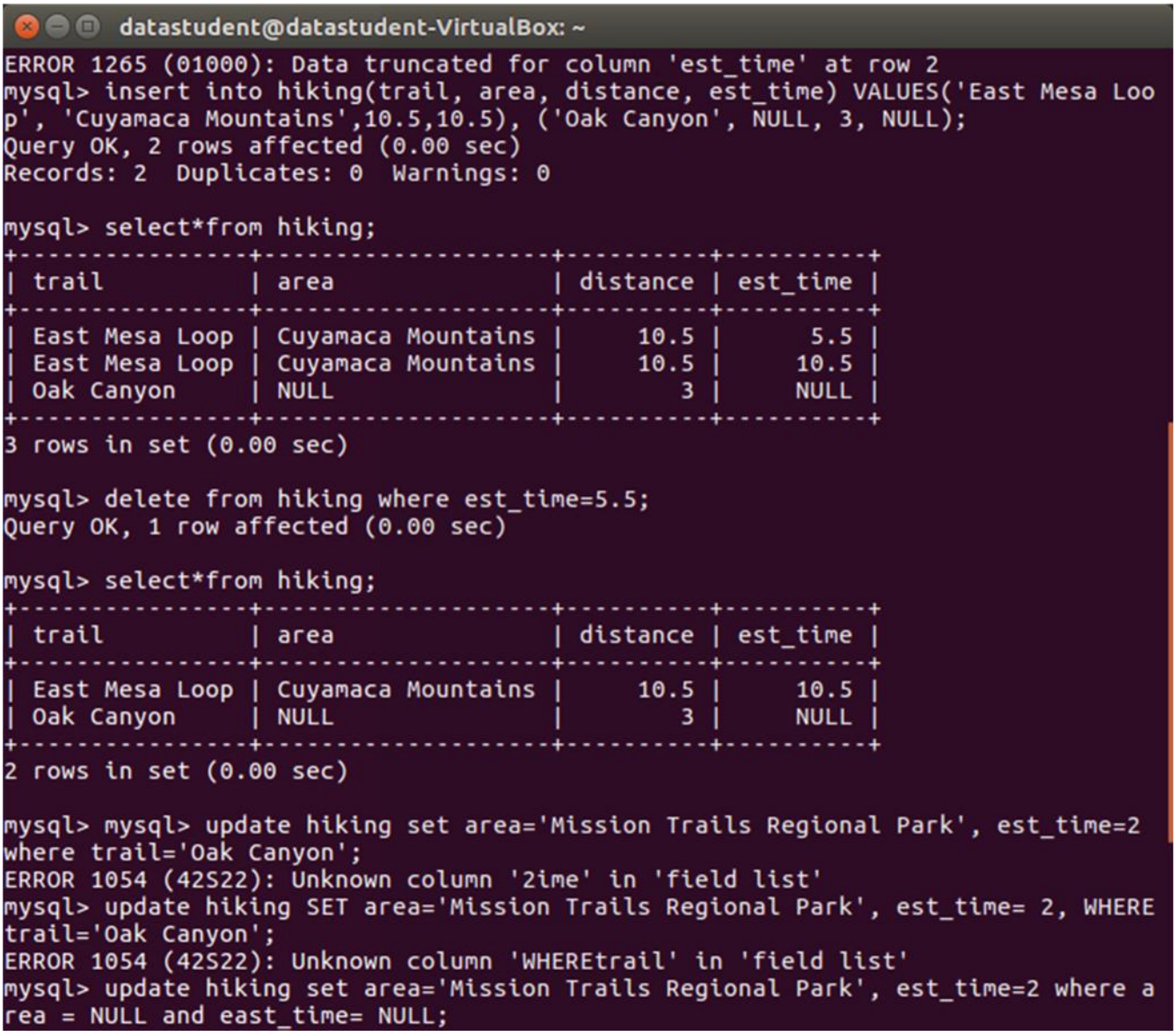
2. Write the SQL statements to update the entry for Oak Canyon



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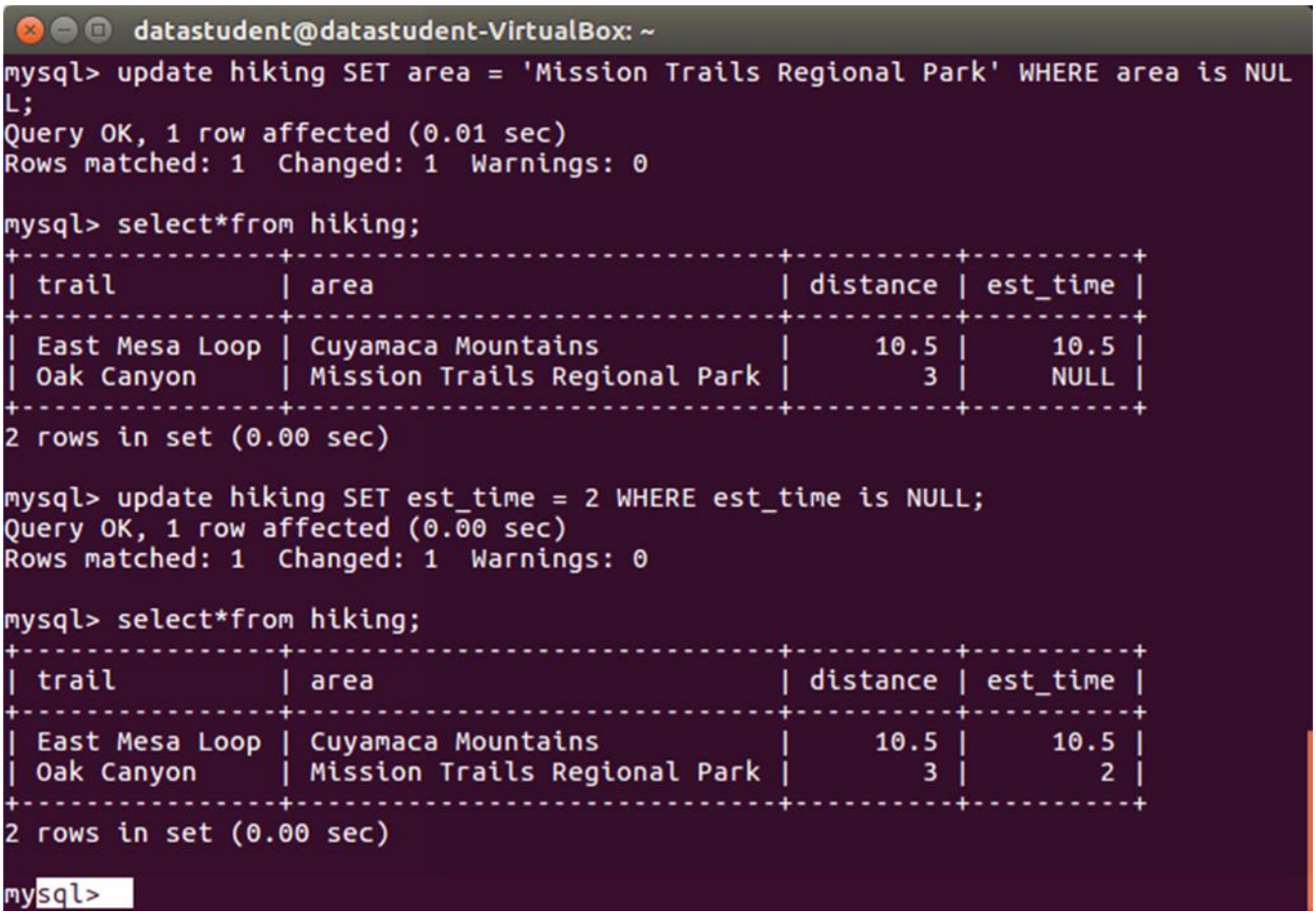

3. Write the SQL statement to delete trails with a distance greater than 5 miles.
4. Write the SQL statement to create a table called ’rating’.

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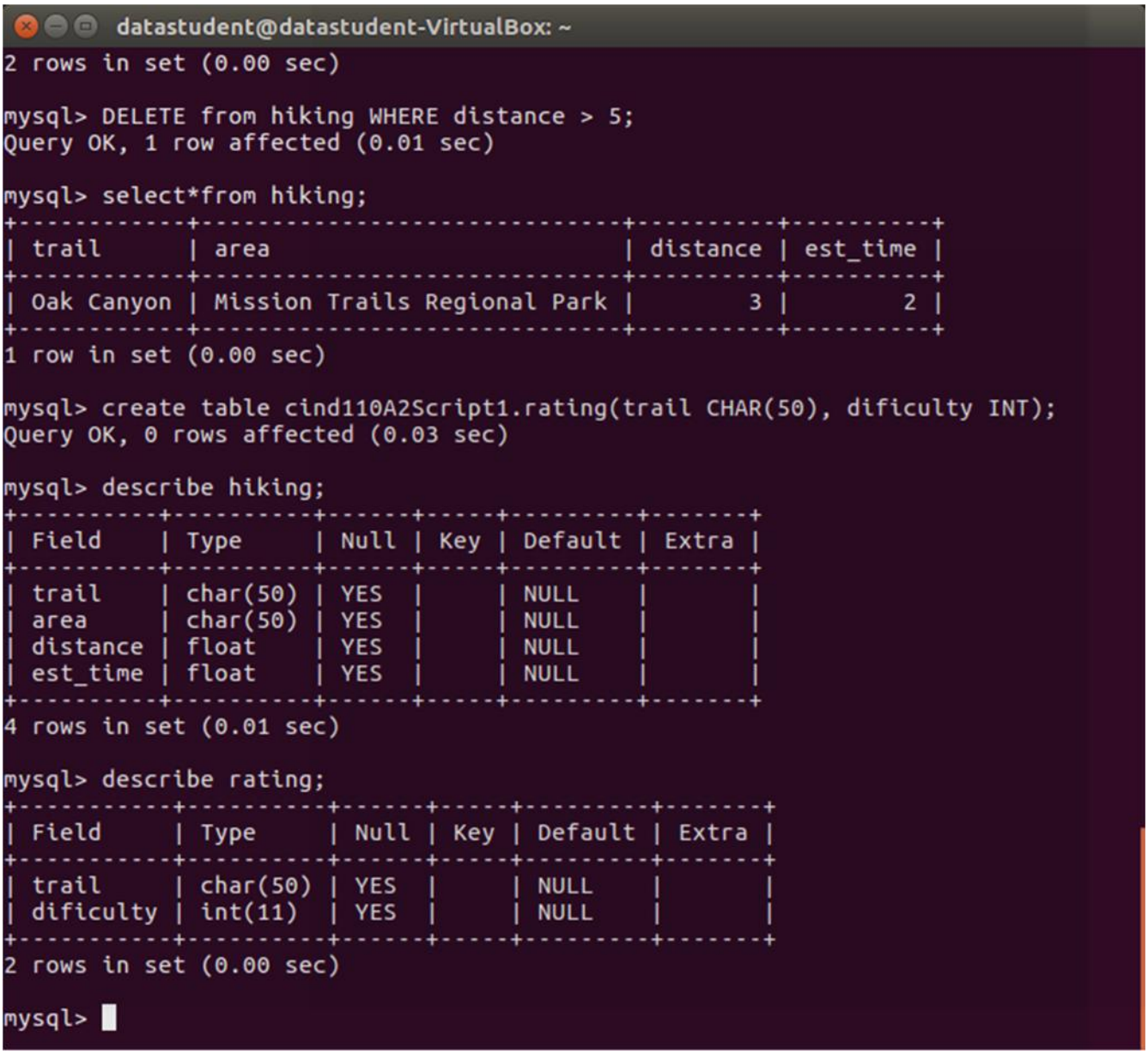

5. Write the command to add another column to the hiking table called ’trailID’ with Primary key constraint.

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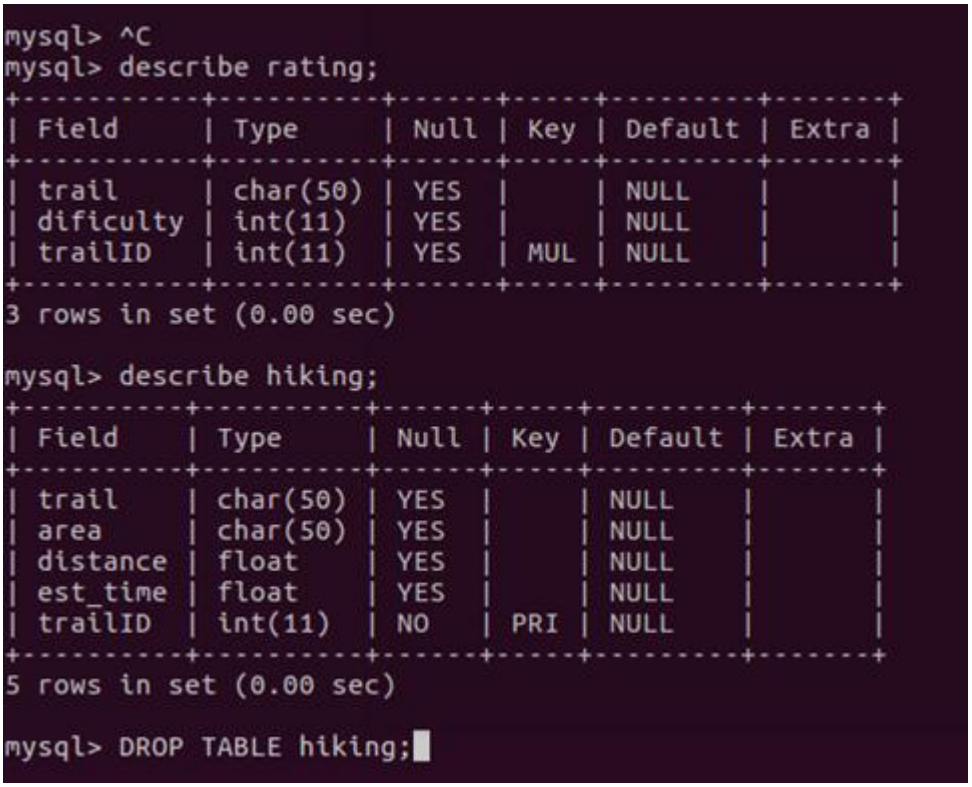
```
mysql> alter table hiking add column trailID INT PRIMARY KEY;
Query OK, 0 rows affected (0.07 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> describe rating;
+-----------+----------+------+-----+---------+-------+
| Field     | Type     | Null | Key | Default | Extra |
+-----------+----------+------+-----+---------+-------+
| trail     | char(50) | YES  |     | NULL    |       |
| dificulty | int(11)  | YES  |     | NULL    |       |
+-----------+----------+------+-----+---------+-------+
```

6. Add another column called ’trailID’ in the ’rating’ table and adding Constrains.

```
mysql> describe hiking;
+----------+----------+------+-----+---------+-------+
| Field    | Type     | Null | Key | Default | Extra |
+----------+----------+------+-----+---------+-------+
| trail    | char(50) | YES  |     | NULL    |       |
| area     | char(50) | YES  |     | NULL    |       |
| distance | float    | YES  |     | NULL    |       |
| est_time | float    | YES  |     | NULL    |       |
| trailID  | int(11)  | NO   | PRI | NULL    |       |
+----------+----------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql> ALTER TABLE rating add column trailID;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near '' at
line 1
mysql> ALTER TABLE rating add column trailID INT;
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE rating add CONSTRAINT fk_trailID FOREIGN KEY (trailID) REFERE
NCES hiking(trailID);
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

7. What is the command to delete the rating table?
(See at the bottom)

MG



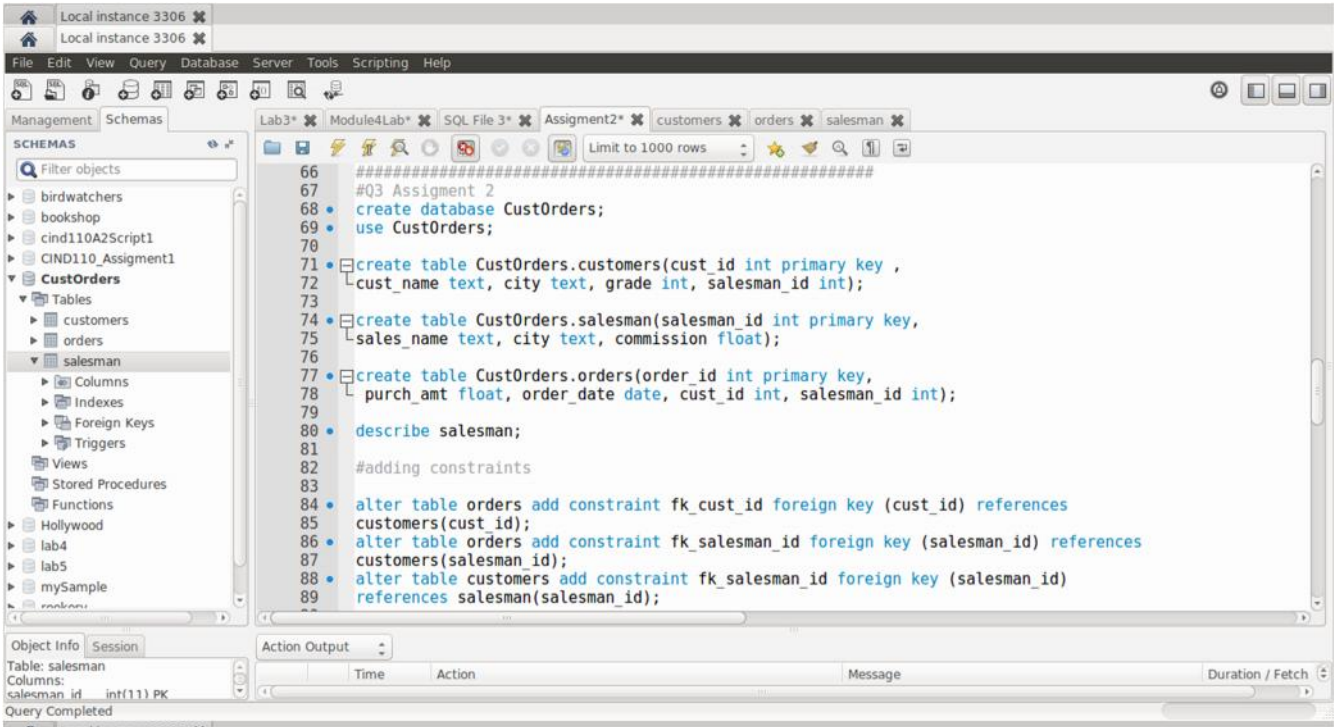
```
mysql> ^C
mysql> describe rating;
+-----------+----------+------+-----+---------+-------+
| Field     | Type     | Null | Key | Default | Extra |
+-----------+----------+------+-----+---------+-------+
| trail     | char(50) | YES  |     | NULL    |       |
| dificulty | int(11)  | YES  |     | NULL    |       |
| trailID   | int(11)  | YES  | MUL | NULL    |       |
+-----------+----------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> describe hiking;
+----------+----------+------+-----+---------+-------+
| Field    | Type     | Null | Key | Default | Extra |
+----------+----------+------+-----+---------+-------+
| trail    | char(50) | YES  |     | NULL    |       |
| area     | char(50) | YES  |     | NULL    |       |
| distance | float    | YES  |     | NULL    |       |
| est_time | float    | YES  |     | NULL    |       |
| trailID  | int(11)  | NO   | PRI | NULL    |       |
+----------+----------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql> DROP TABLE hiking;
```

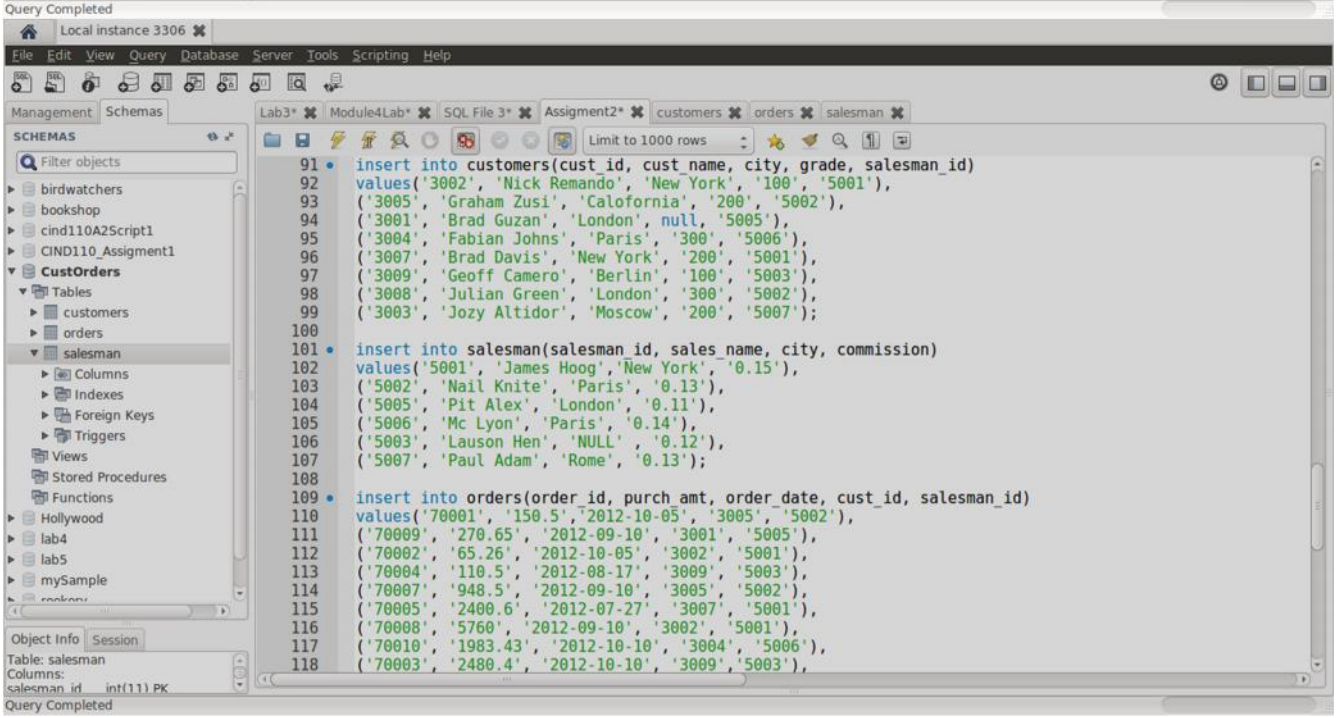
Question 3

(Please make word file bigger (+) to see better the screenshots from mysql work bench)

MG

Creating database CustOrders and adding tables Customer, Salesman and Order entities, constrains, inserting data:





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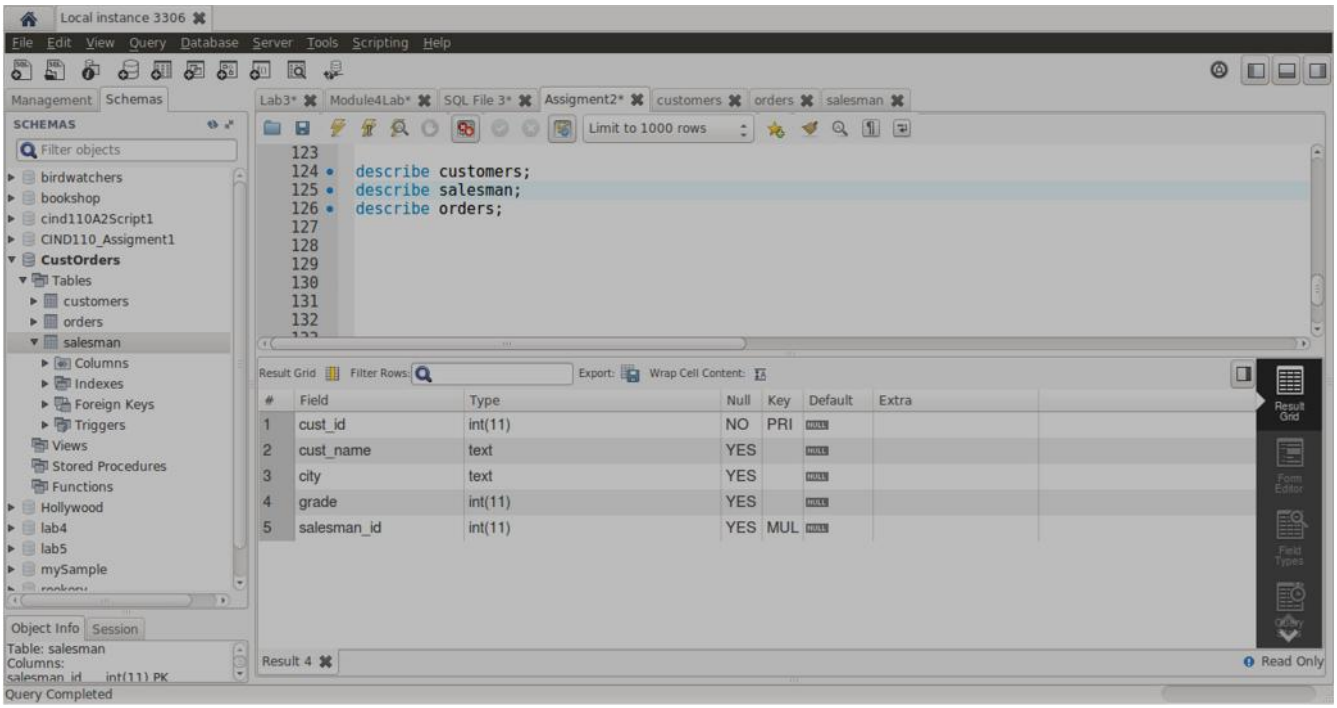
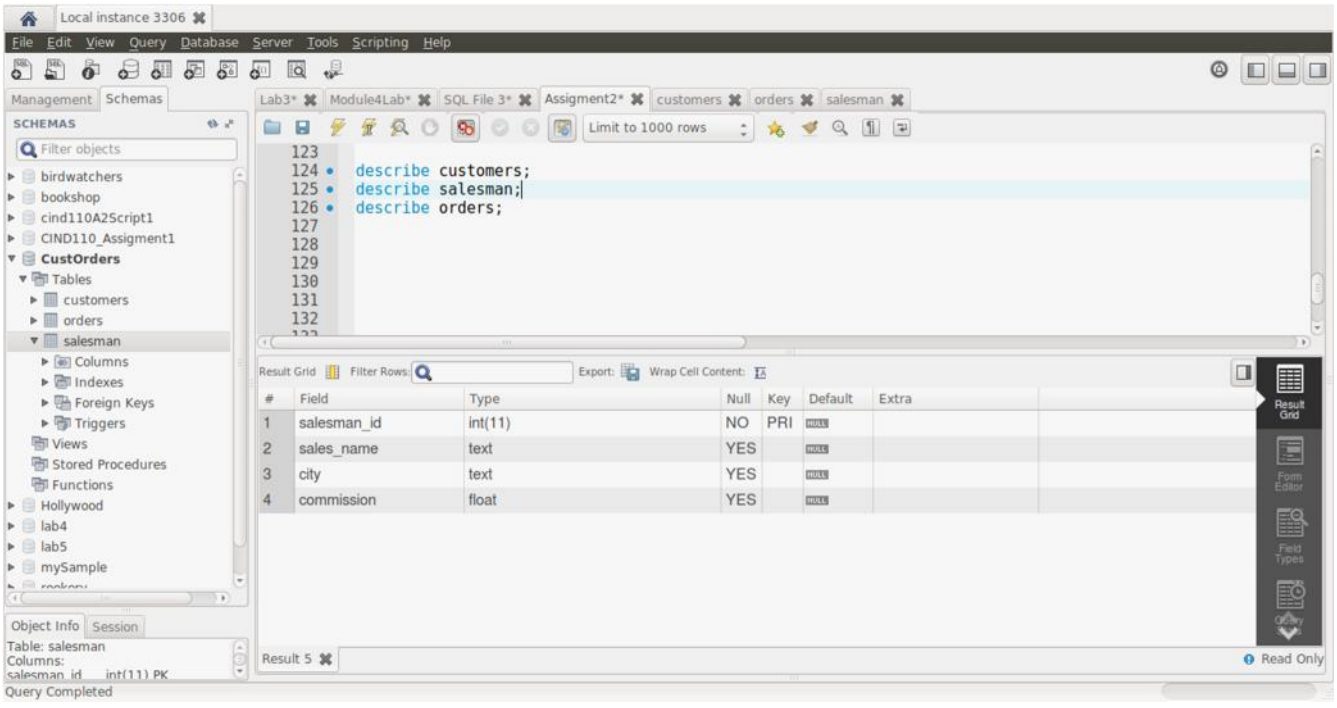
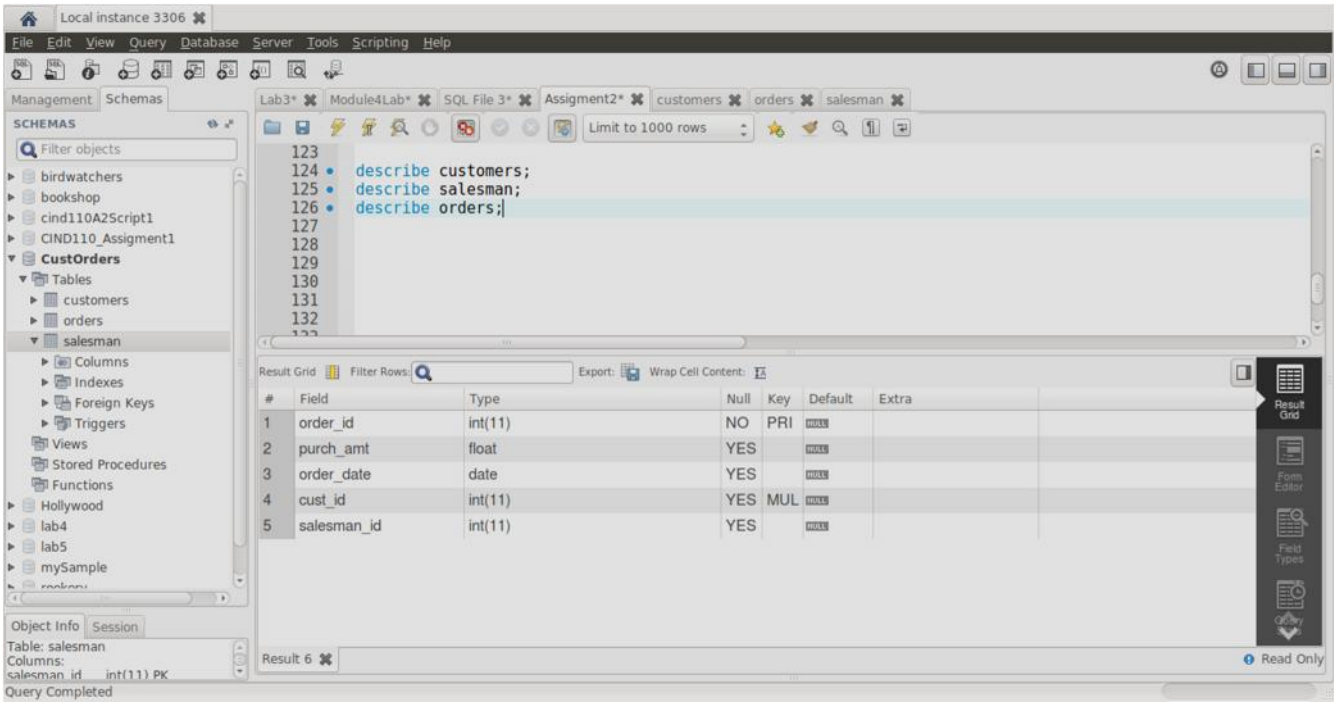
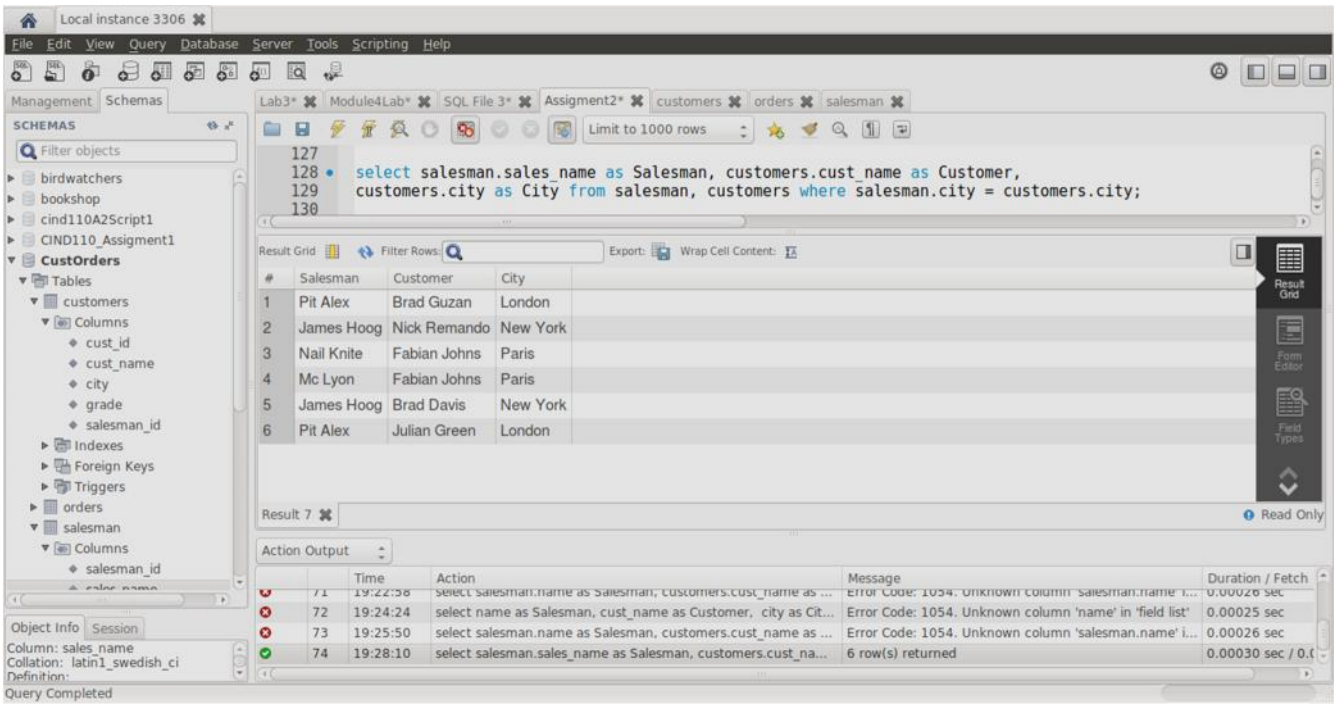

Local instance 3306
File Edit View Query Database Server Tools Scripting Help
Management Schemas
SCHEMAS
Filter objects
birdwatchers
bookshop
cind110A2Script1
CIND110_Assigment1
CustOrders
Tables
customers
orders
salesman
Columns
Indexes
Foreign Keys
Triggers
Views
Stored Procedures
Functions
Hollywood
lab4
lab5
mySample
Lab3* Module4Lab* SQL File 3* Assigment2* customers orders salesman
Limit to 1000 rows
123
124 describe customers;
125 describe salesman;
126 describe orders;
127
128
129
130
131
132
Result Grid Filter Rows: Export: Wrap Cell Content:
Field Type Null Key Default Extra
1 cust_id int(11) NO PRI NULL
2 cust_name text YES NULL
3 city text YES NULL
4 grade int(11) YES NULL
5 salesman_id int(11) YES MUL NULL
Result Grid
Form Editor
Field Types
Query Stats
Result 4
Read Only
Object Info Session
Table: salesman
Columns:
salesman_id int(11) PK
Query Completed


Local instance 3306
File Edit View Query Database Server Tools Scripting Help
Management Schemas
SCHEMAS
Filter objects
birdwatchers
bookshop
cind110A2Script1
CIND110_Assigment1
CustOrders
Tables
customers
orders
salesman
Columns
Indexes
Foreign Keys
Triggers
Views
Stored Procedures
Functions
Hollywood
lab4
lab5
mySample
Lab3* Module4Lab* SQL File 3* Assigment2* customers orders salesman
Limit to 1000 rows
123
124 describe customers;
125 describe salesman;
126 describe orders;
127
128
129
130
131
132
Result Grid Filter Rows: Export: Wrap Cell Content:
Field Type Null Key Default Extra
1 salesman_id int(11) NO PRI NULL
2 sales_name text YES NULL
3 city text YES NULL
4 commission float YES NULL
Result Grid
Form Editor
Field Types
Query Stats
Result 5
Read Only
Object Info Session
Table: salesman
Columns:
salesman_id int(11) PK
Query Completed

MG

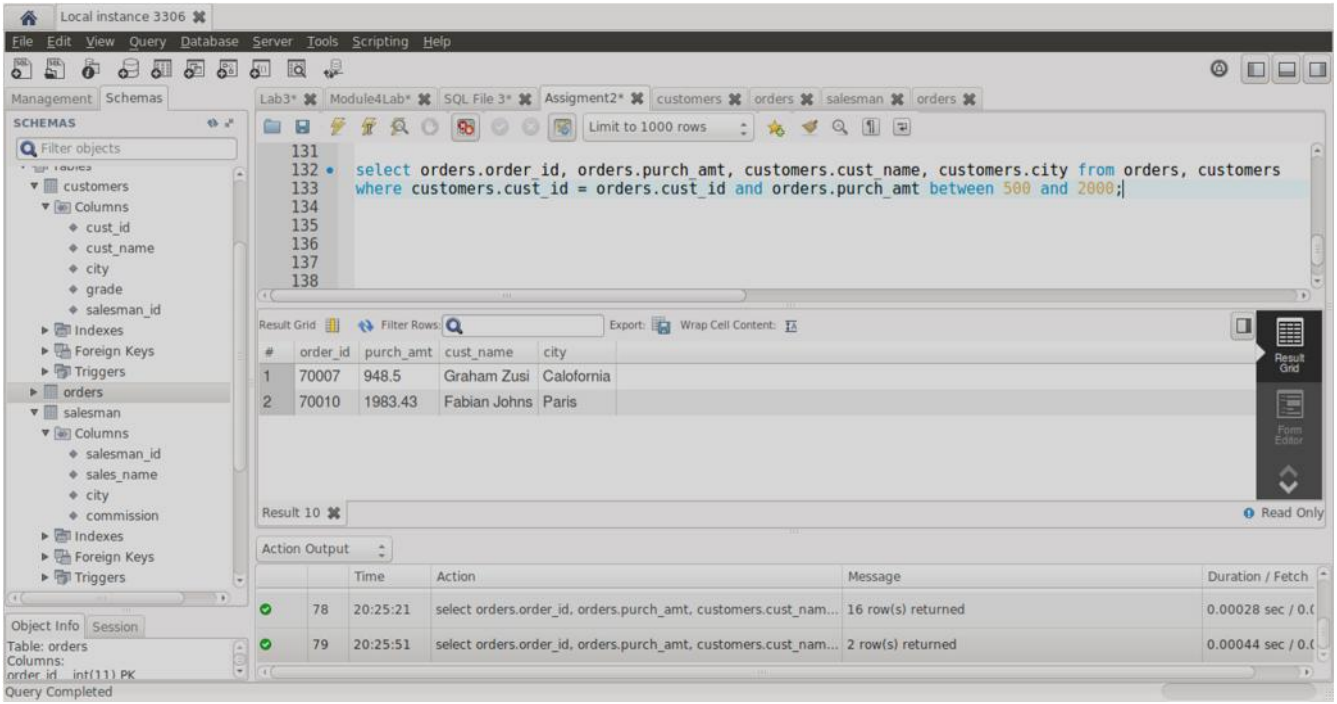


1. Write an SQL statement to prepare a list with salesman name, customer name and their cities for the salesmen and customer who belong to same city.

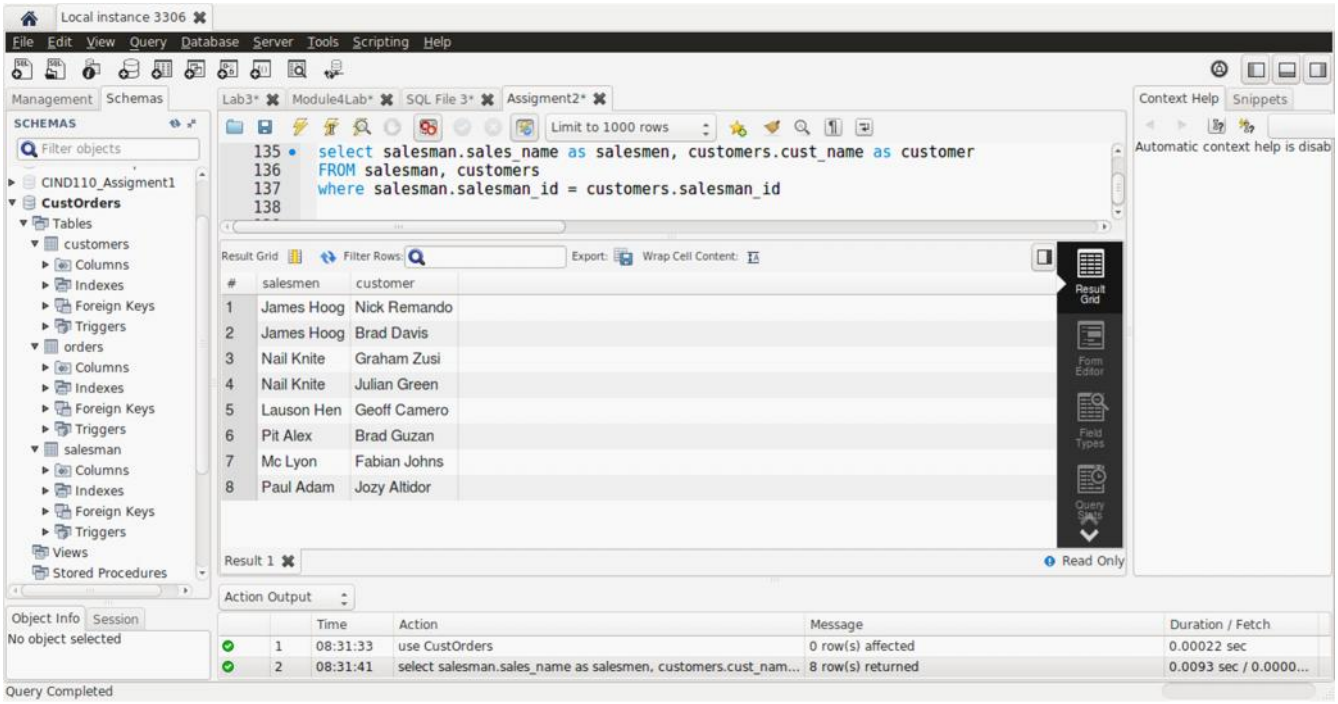


2. Write an SQL statement to make a list with order no, purchase amount, customer name and their

cities for the orders where order amount is between 500 and 2000.



3. Write an SQL statement to find out which salesmen are working for which customer.



4. Write an SQL statement to find the list of customers who appointed a salesman for their jobs whose commission is more than 12%.

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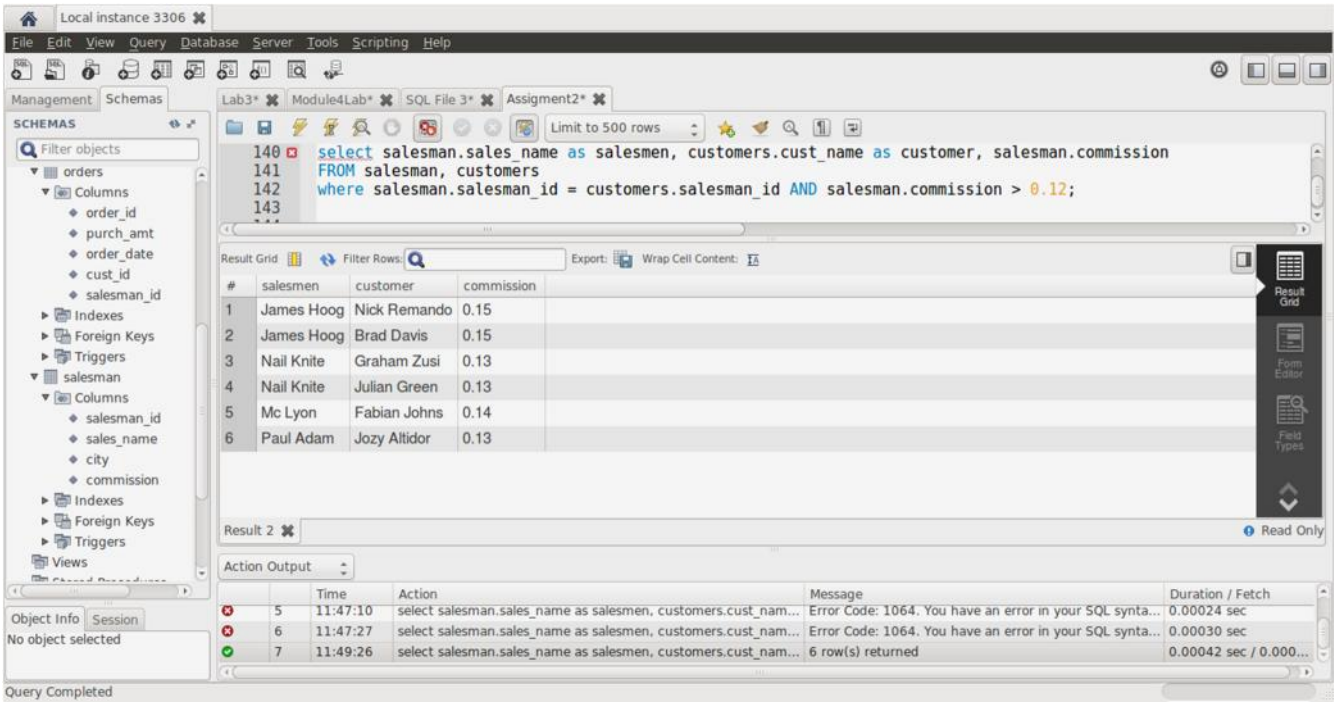
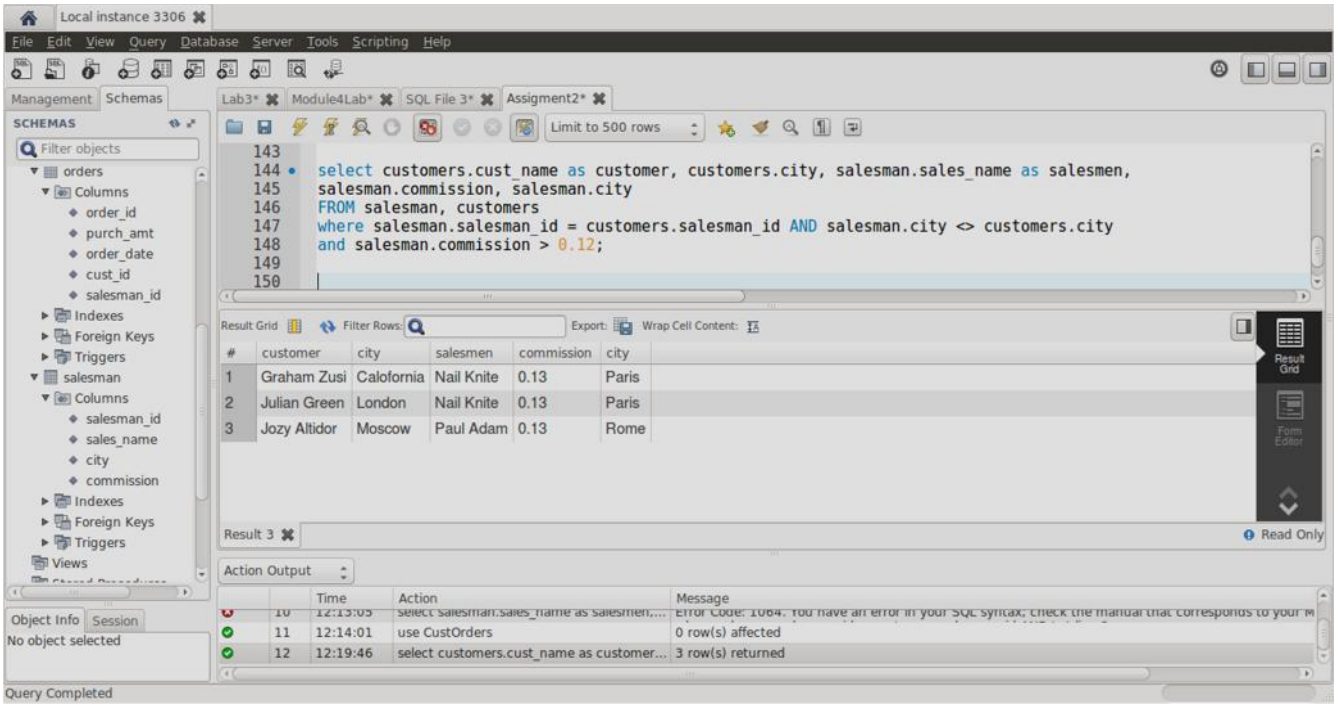
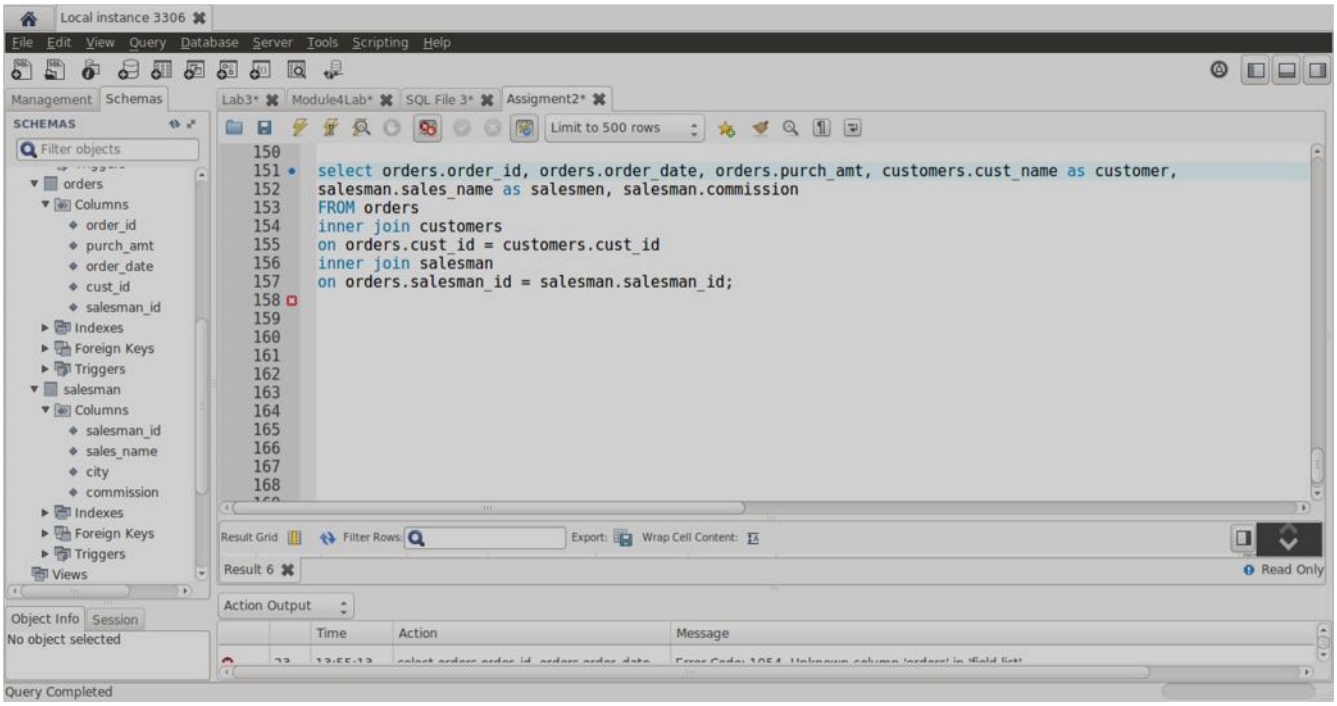


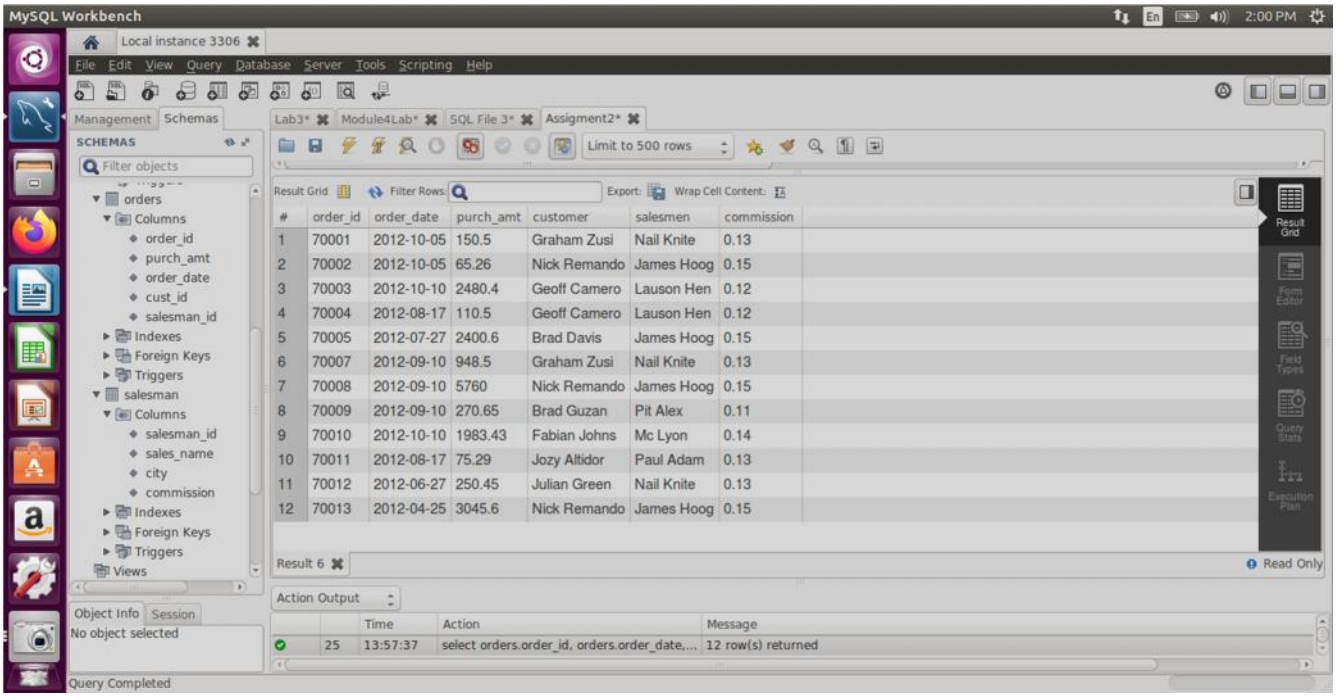
5. Write an SQL statement to find the list of customers who appointed a salesman for their jobs who does not live in same city where the customer lives, and gets a commission above 12%.



6. Write an SQL statement to find the details of an order i. e. order number, order date, amount of order, which customer gives the order and which salesman works for that customer and how much commission he gets for an order.

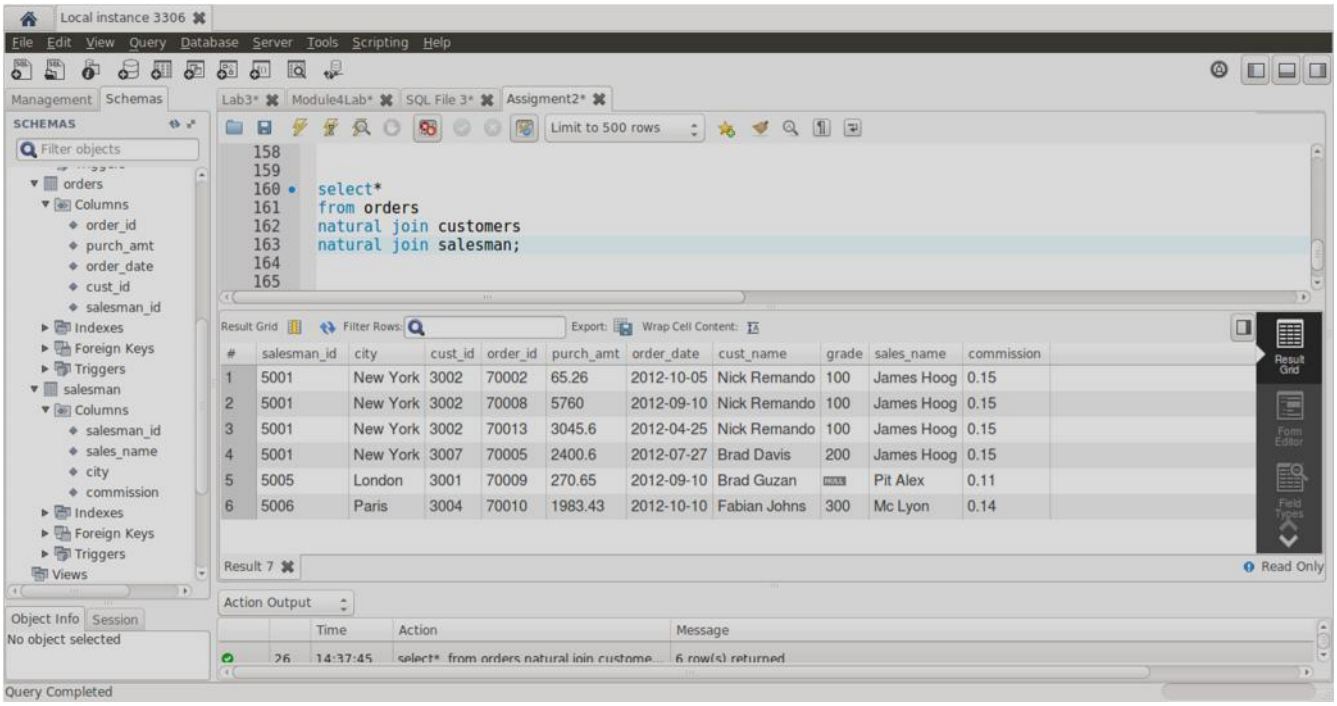
MG





7. Write an SQL statement to make a join within the tables salesman, customer and orders such that the same column of each table will appear once and only the related rows will be returned.

MG

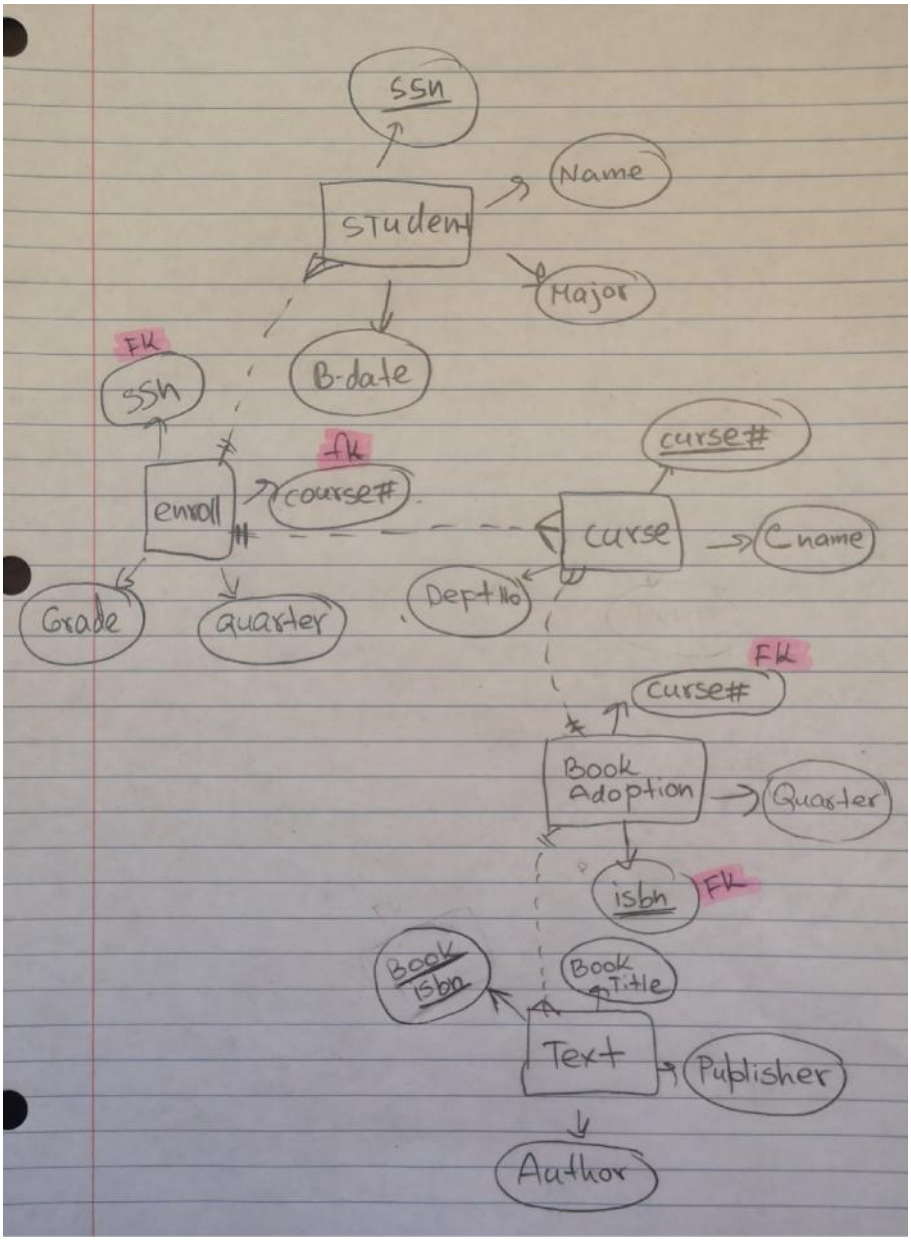


Question 4

Having that a Relation can have zero or more Foreign keys and each Foreign key can refer to different referenced Relations. Specify all possible Foreign keys for this schema

Please see my Schema as below with the all tables and relations, there are 4 FK's
Table Enroll will have 2FK's this is a table that connects tables Student and Curse.
Table Book Adoption will have 2FK's this is a table that connects tables Curse and Text.

MG


SSn
Name
STudent
Major
FK
SSn
B-date
fk
enroll
course#
curse#
curse
Cname
Grade
quarter
Dept No
FK
curse#
Book Adoption
Quarter
isbn
FK
Book Isbn
Book Title
Text
Publisher
Author