ASSIGNMENT 3

QUESTIONS

Q1.Create Database

Q2.Design Schema

Q3.Create tables

Q4.Insert sample data

Q5.Find the sales person have multiple orders

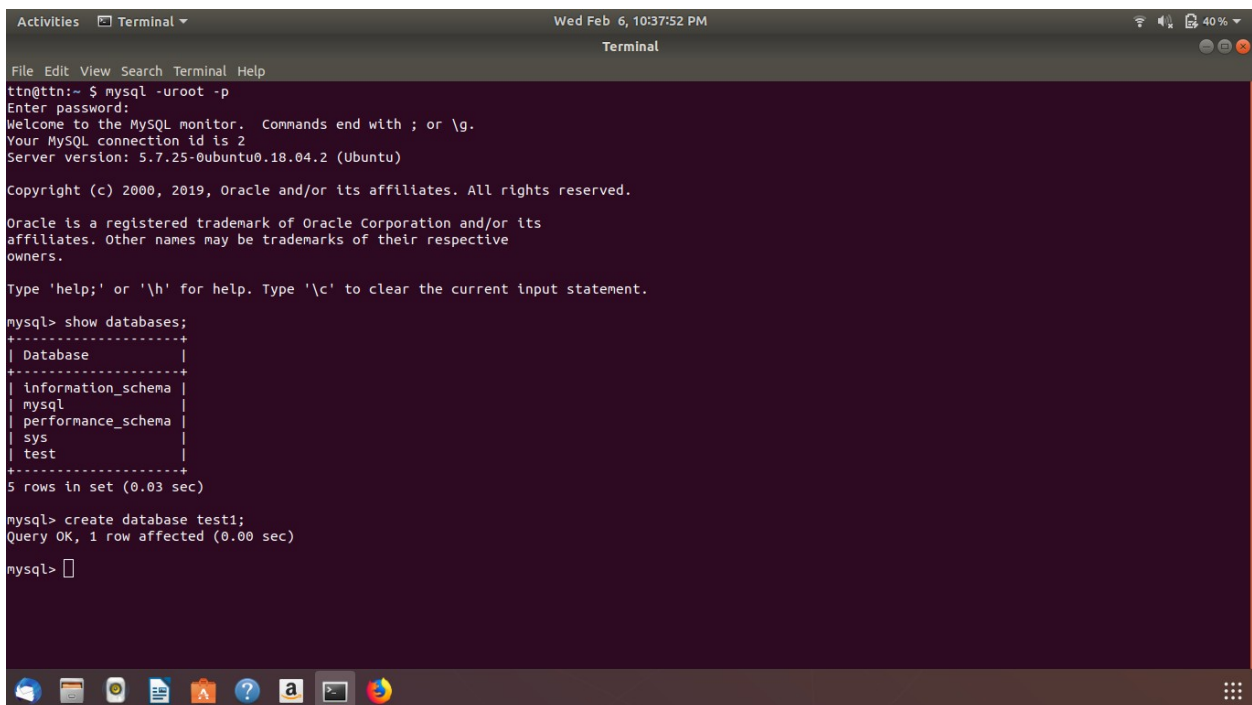Q6.Find the all sales person details along with order details

Q7.Create index

Q8.How to show index on a table

Q9.Find the order number, sale person name, along with the customer to whom that order belongs to

ANSWERS

Q1.Create Database

Q2.Design Schema

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```
mysql> desc customer2;
+---------+----------+------+-----+---------+-------+
| Field   | Type     | Null | Key | Default | Extra |
+---------+----------+------+-----+---------+-------+
| c_id    | int(11)  | NO   | PRI | NULL    |       |
| c_name  | char(20) | YES  |     | NULL    |       |
| c_city  | char(20) | YES  |     | NULL    |       |
+---------+----------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> ▯
```

```
mysql> desc order;
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 n
ear 'order' at line 1
mysql> desc odr;
+--------------+---------+------+-----+---------+-------+
| Field        | Type    | Null | Key | Default | Extra |
+--------------+---------+------+-----+---------+-------+
| o_id         | int(11) | NO   | PRI | NULL    |       |
| purchase_amnt | int(11) | YES |     | NULL    |       |
| salesm_id    | int(11) | YES  | MUL | NULL    |       |
| custm_id     | int(11) | YES  | MUL | NULL    |       |
+--------------+---------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> desc salesman;
+---------+----------+------+-----+---------+-------+
| Field   | Type     | Null | Key | Default | Extra |
+---------+----------+------+-----+---------+-------+
| sm_id   | int(11)  | NO   | PRI | NULL    |       |
| sm_name | char(10) | YES  |     | NULL    |       |
| sm_city | char(10) | YES  |     | NULL    |       |
+---------+----------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

Q3.Create tables

Terminal

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```
Your MySQL connection id is 2
Server version: 5.7.25-0ubuntu0.18.04.2 (Ubuntu)

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

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
| test               |
+--------------------+
5 rows in set (0.03 sec)

mysql> create database test1;
Query OK, 1 row affected (0.00 sec)

mysql> use test1;
Database changed
mysql>
mysql> create table salesman
    -> (sm_id int,
    -> sm_name char(10),
    -> sm_city char(10)
    -> );
Query OK, 0 rows affected (0.28 sec)
```

Terminal

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```
mysql> alter table salesman add primary key (sm_id);
Query OK, 0 rows affected (0.46 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>
```

```
mysql>  create table odr(o_id int primary key , purchase_amnt int,salesm_id int , custm_id int ,  FOREIGN KEY (salesm_id) REFERENCES salesman (sm_id)
, foreign key (custm_id) references customer (c_id ));
Query OK, 0 rows affected (0.48 sec)
```

```
ERROR 1050 (42S01): Table 'customer1' already exists
mysql>
mysql> create table customer2 (c_id integer, c_name char(20), c_city char(20) );
Query OK, 0 rows affected (0.71 sec)

mysql> desc customer2
    -> ;
+--------+----------+------+-----+---------+-------+
| Field  | Type     | Null | Key | Default | Extra |
+--------+----------+------+-----+---------+-------+
| c_id   | int(11)  | YES  |     | NULL    |       |
| c_name | char(20) | YES  |     | NULL    |       |
```

Q4.Insert sample data

Q5.Find the sales person have multiple orders

```
mysql> select * from salesman where sm_id in
    -> (select distinct salesm_id from odr a where exists
    -> (select * from odr b where b.salesm_id=a.salesm_id and b.o_id <> a.o_id));
+-------+---------+---------+
| sm_id | sm_name | sm_city |
+-------+---------+---------+
|   901 | justin  | delhi   |
+-------+---------+---------+
1 row in set (0.34 sec)

mysql>
```

Q6.Find the all sales person details along with order details


```
mysql> Select * from salesman , odr where salesman.sm_id=odr.salesmn_id ;
ERROR 1054 (42S22): Unknown column 'odr.salesmn_id' in 'where clause'
mysql> Select * from salesman , odr where salesman.sm_id=odr.salesm_id ;
+-------+---------+---------+------+--------------+-----------+---------+
| sm_id | sm_name | sm_city | o_id | purchase_amnt | salesm_id | custm_id |
+-------+---------+---------+------+--------------+-----------+---------+
|   901 | justin  | delhi   | 101  |          450 |       901 |      991 |
|   901 | justin  | delhi   | 105  |          240 |       901 |      994 |
|   902 | kapil   | pune    | 102  |         4556 |       902 |      991 |
|   903 | golu    | punjab  | 103  |          500 |       903 |      992 |
|   904 | tushar  | bihar   | 104  |         1000 |       904 |      993 |
+-------+---------+---------+------+--------------+-----------+---------+
5 rows in set (0.00 sec)

mysql>
```

Q7.Create index


```
mysql> CREATE INDEX index_1
    -> ON odr (purchase_amnt);
Query OK, 0 rows affected (0.32 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>
mysql>
mysql>
```

Q8.How to show index on a table

Terminal

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```
mysql> SHOW INDEX FROM odr;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
odr	0	PRIMARY	1	o_id	A	4	NULL	NULL			BTREE		
odr	1	salesm_id	1	salesm_id	A	4	NULL	NULL	YES	BTREE		
odr	1	custm_id	1	custm_id	A	3	NULL	NULL	YES	BTREE		
odr	1	index_1	1	purchase_amnt	A	5	NULL	NULL	YES	BTREE		

```
4 rows in set (0.00 sec)

mysql>
```

Q9.Find the order number, sale person name, along with the customer to whom that order belongs to

Terminal

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```
mysql>  select o_id , sm_name , c_name from odr o , salesman s , customer c  where o.custm_id = c.c_id and o.salesmn_id=s.sm_id;
ERROR 1054 (42S22): Unknown column 'o.salesmn_id' in 'where clause'
mysql>  select o_id , sm_name , c_name from odr o , salesman s , customer c  where o.custm_id = c.c_id and o.salesm_id=s.sm_id;
```

o_id	sm_name	c_name
101	justin	nick_j
102	kapil	nick_j
103	golu	arshad
104	tushar	anshu
105	justin	deepanshu

```
5 rows in set (0.00 sec)

mysql>
```