

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

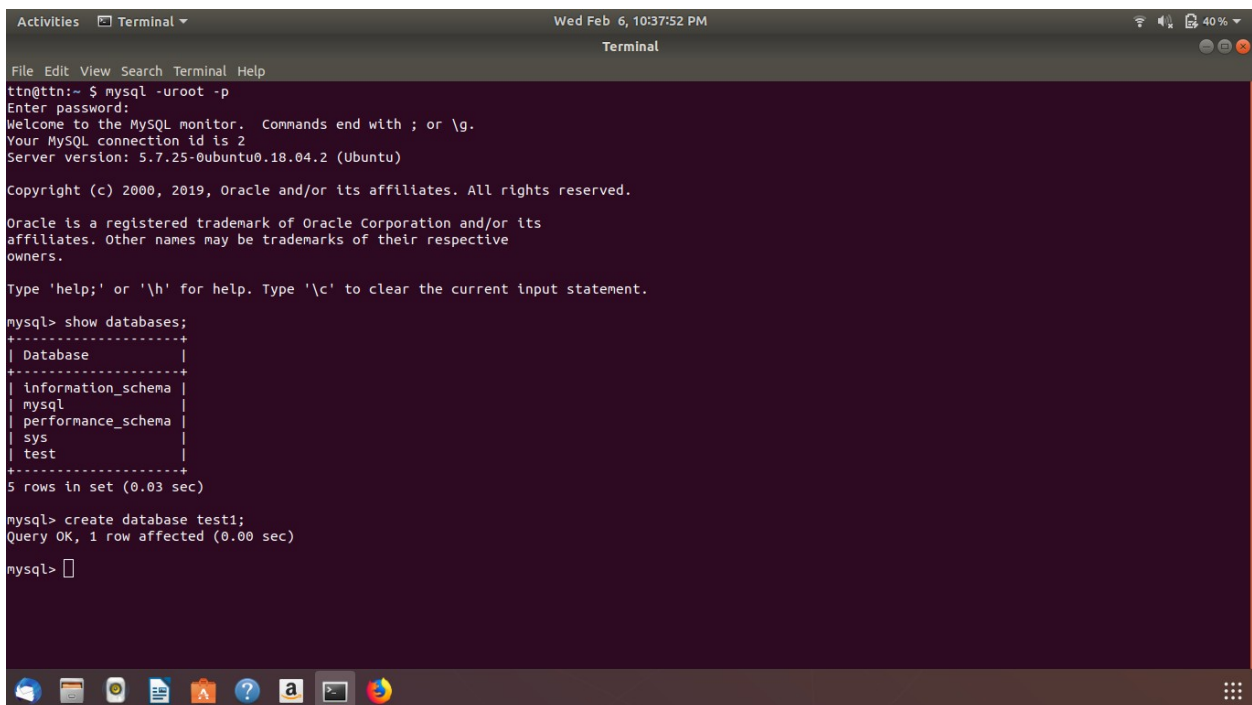
Q7.Create index

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



```
Activities Terminal Wed Feb 6, 10:37:52 PM
Terminal
File Edit View Search Terminal Help
ttn@ttn:~$ mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.7.25-0ubuntu0.18.04.2 (Ubuntu)

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owners.

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>
```

Q2.Design Schema

```
Activities Terminal Mon Feb 11, 2:35:04 PM 78%
Terminal
File Edit View Search Terminal Help
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 near '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

```
Activities Terminal Wed Feb 6, 11:01:57 PM
Terminal
File Edit View Search Terminal Help
Your MySQL connection id is 2
Server version: 5.7.25-0ubuntu0.18.04.2 (Ubuntu)

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owners.

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

```
Activities Terminal Wed Feb 6, 11:00:09 PM
Terminal
File Edit View Search Terminal Help
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)
```

```
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

```
Activities Terminal Wed Feb 6, 11:37:19 PM
mysql> insert into salesman values (901,'justin','delhi');
Query OK, 1 row affected (0.05 sec)

mysql> insert into salesman values (902,'kapil','pune');
Query OK, 1 row affected (0.05 sec)

mysql> insert into salesman values (902,'golu','punjab');
ERROR 1062 (23000): Duplicate entry '902' for key 'PRIMARY'
mysql> insert into salesman values (903,'golu','punjab');
Query OK, 1 row affected (0.03 sec)

mysql> insert into salesman values (904,'tushar','bihar');
Query OK, 1 row affected (0.03 sec)

mysql> insert into customer values (991,'nick_j','bihar',901);
Query OK, 1 row affected (0.04 sec)

mysql> insert into customer values (992,'arshad','up',902);
Query OK, 1 row affected (0.04 sec)

mysql> insert into customer values (993,'anshu','hp',903);
Query OK, 1 row affected (0.05 sec)

mysql> insert into customer values (994,'deepanshu','delhi',904);
Query OK, 1 row affected (0.04 sec)

mysql>
```

```
Activities Terminal Mon Feb 11, 2:49:42 PM
mysql> select * from odr;
+-----+-----+-----+-----+
| o_id | purchase_annt | salesm_id | custm_id |
+-----+-----+-----+-----+
| 101 | 450 | 901 | 991 |
| 102 | 4556 | 902 | 991 |
| 103 | 500 | 903 | 992 |
| 104 | 1000 | 904 | 993 |
| 105 | 240 | 901 | 994 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from salesman;
+-----+-----+-----+
| sm_id | sm_name | sm_city |
+-----+-----+-----+
| 901 | justin | delhi |
| 902 | kapil | pune |
| 903 | golu | punjab |
| 904 | tushar | bihar |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from customer2;
+-----+-----+-----+
| c_id | c_name | c_city |
+-----+-----+-----+
| 991 | nick | bihar |
| 992 | arshad | up |
| 993 | anshu | hp |
| 994 | deepanshu | delhi |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

Q5.Find the sales person have multiple orders

```
Activities Terminal Mon Feb 11, 3:18:49 PM
Terminal
File Edit View Search Terminal Help
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

```
Activities Terminal Thu Feb 7, 6:34:21 AM
Terminal
File Edit View Search Terminal Help
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_co
ment |
+-----+
| 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

```
Activities Terminal Thu Feb 7, 6:55:18 AM
Terminal
File Edit View Search Terminal Help
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>
```