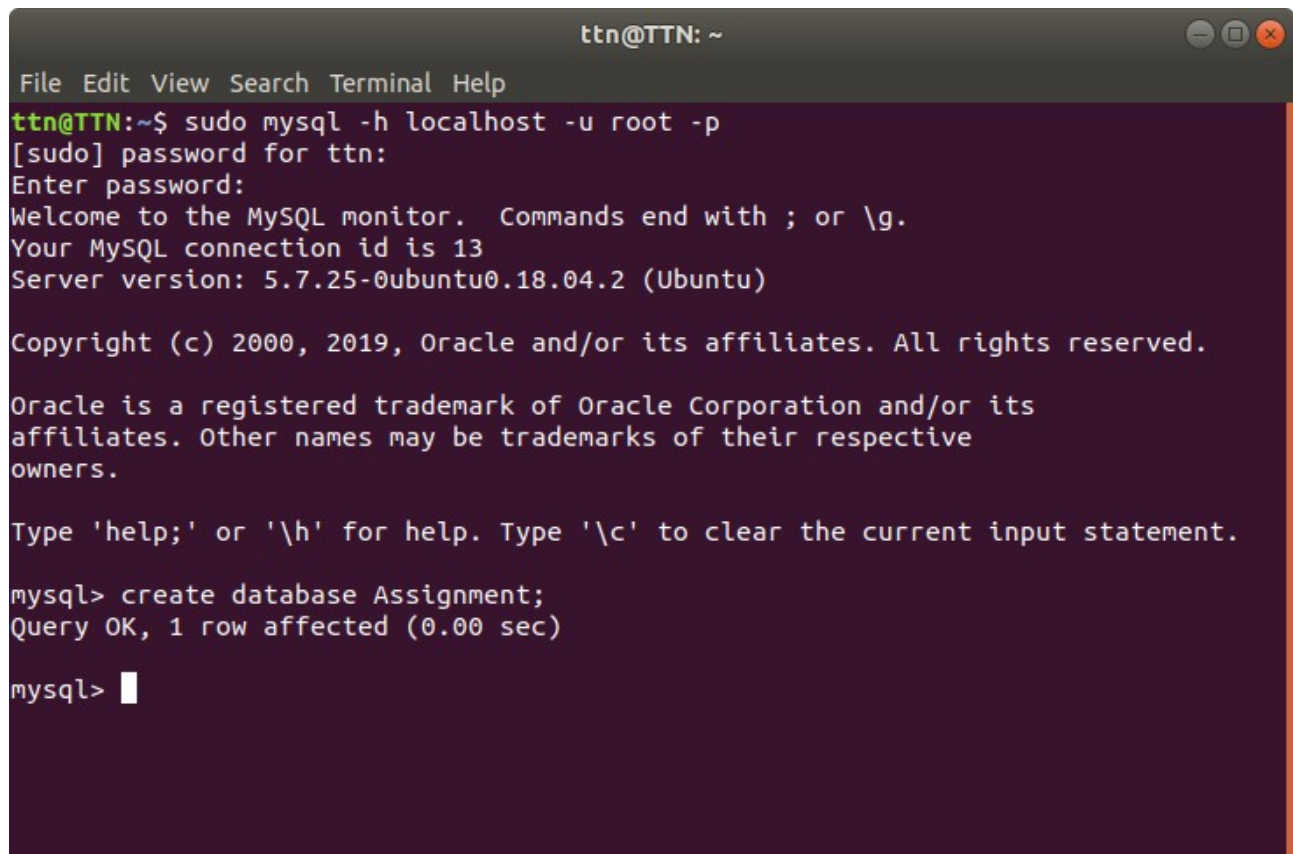


Introduction to Database 06-Feb-2019

Q1.

Query:

create database database_name;

A terminal window titled 'ttn@TTN: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the execution of 'sudo mysql -h localhost -u root -p'. It prompts for a password, then displays the MySQL welcome message: 'Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 13. Server version: 5.7.25-0ubuntu0.18.04.2 (Ubuntu)'. It also shows copyright and trademark information. The user enters 'create database Assignment;' and receives the response 'Query OK, 1 row affected (0.00 sec)'. The prompt 'mysql>' is shown with a cursor.

```
ttn@TTN: ~  
File Edit View Search Terminal Help  
ttn@TTN:~$ sudo mysql -h localhost -u root -p  
[sudo] password for ttn:  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 13  
Server version: 5.7.25-0ubuntu0.18.04.2 (Ubuntu)  
  
Copyright (c) 2000, 2019, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
mysql> create database Assignment;  
Query OK, 1 row affected (0.00 sec)  
  
mysql> █
```

Q2.

```
mysql> desc customer
-> ;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| cust_id    | varchar(4)    | NO   | PRI | NULL    |       |
| name       | varchar(25)   | YES  |     | NULL    |       |
| o_id       | varchar(4)    | YES  |     | NULL    |       |
| sales_id   | varchar(4)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Q3.

Query:

```
create table table_name (column1 datatype,
column2 datatype,
column3 datatype,
...
);
```

```
mysql> create table customer (cust_id varchar(4) primary key, name varchar(25),
o_id varchar(4),sales_id varchar(4));
Query OK, 0 rows affected (0.19 sec)

mysql> desc customer
-> ;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| cust_id    | varchar(4)    | NO   | PRI | NULL    |       |
| name       | varchar(25)   | YES  |     | NULL    |       |
| o_id       | varchar(4)    | YES  |     | NULL    |       |
| sales_id   | varchar(4)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Q4.

Query:

insert into table_name values(value1, value2, value3...);

```
mysql> insert into sales values('S001','Akash');
Query OK, 1 row affected (0.07 sec)

mysql> insert into sales values('S002','Aman');
Query OK, 1 row affected (0.03 sec)

mysql> insert into sales values('S003','Anoop');
Query OK, 1 row affected (0.02 sec)

mysql> select * from sales;
+-----+-----+
| sales_id | name |
+-----+-----+
| S001     | Akash |
| S002     | Aman  |
| S003     | Anoop |
+-----+-----+
3 rows in set (0.00 sec)
```

Q5.

Query:

select c.sales_id, s.name from customer c, sales s where c.sales_id = s.sales_id group by c.sales_id having count()>1;*

```
ttn@TTN: ~  
File Edit View Search Terminal Help  
mysql> select * from customer;  
+-----+-----+-----+-----+  
| cust_id | name  | o_id | sales_id |  
+-----+-----+-----+-----+  
| C001    | Ayush | 0001 | S001     |  
| C002    | Tanya | 0002 | S002     |  
| C003    | Shivam | 0003 | S003     |  
| C002    | Tanya | 0004 | S002     |  
| C001    | Ayush | 0005 | S001     |  
| C002    | Tanya | 0006 | S002     |  
| C002    | Tanya | 0007 | S002     |  
| C001    | Ayush | 0008 | S001     |  
| C002    | Tanya | 0009 | S002     |  
| C001    | Ayush | 0010 | S001     |  
+-----+-----+-----+-----+  
10 rows in set (0.00 sec)  
  
mysql> select * from sales;  
+-----+-----+  
| sales_id | name |  
+-----+-----+  
| S001     | Akash |  
| S002     | Aman |  
| S003     | Anoop |  
+-----+-----+  
3 rows in set (0.00 sec)  
  
mysql> select c.sales_id, s.name from customer c, sales s where c.sales_id = s.sales_id group by c.sales_id having count(*)>1;  
+-----+-----+  
| sales_id | name |  
+-----+-----+  
| S001     | Akash |  
| S002     | Aman |  
+-----+-----+  
2 rows in set (0.01 sec)  
  
mysql> 
```

Q6.

Query:

select s.sales_id,s.name,c.o_id,c.cust_id,c.name from sales s, customer c where s.sales_id = c.sales_id;

```
ttn@TTN: ~  
File Edit View Search Terminal Help  
mysql>  
mysql>  
mysql>  
mysql>  
mysql>  
mysql> select s.sales_id,s.name,c.o_id,c.cust_id,c.name from sales s, customer c  
where s.sales_id = c.sales_id;  
+-----+-----+-----+-----+-----+  
| sales_id | name  | o_id | cust_id | name  |  
+-----+-----+-----+-----+-----+  
| S001     | Akash | 0001 | C001     | Ayush |  
| S002     | Aman  | 0002 | C002     | Tanya |  
| S003     | Anoop | 0003 | C003     | Shivam |  
| S002     | Aman  | 0004 | C002     | Tanya |  
| S001     | Akash | 0005 | C001     | Ayush |  
| S002     | Aman  | 0006 | C002     | Tanya |  
| S002     | Aman  | 0007 | C002     | Tanya |  
| S001     | Akash | 0008 | C001     | Ayush |  
| S002     | Aman  | 0009 | C002     | Tanya |  
| S001     | Akash | 0010 | C001     | Ayush |  
+-----+-----+-----+-----+-----+  
10 rows in set (0.00 sec)  
  
mysql> 
```

Q7.

Query:

```
create index index_name on table_name(column_name);
```

[illegible]

Q8.

Query:

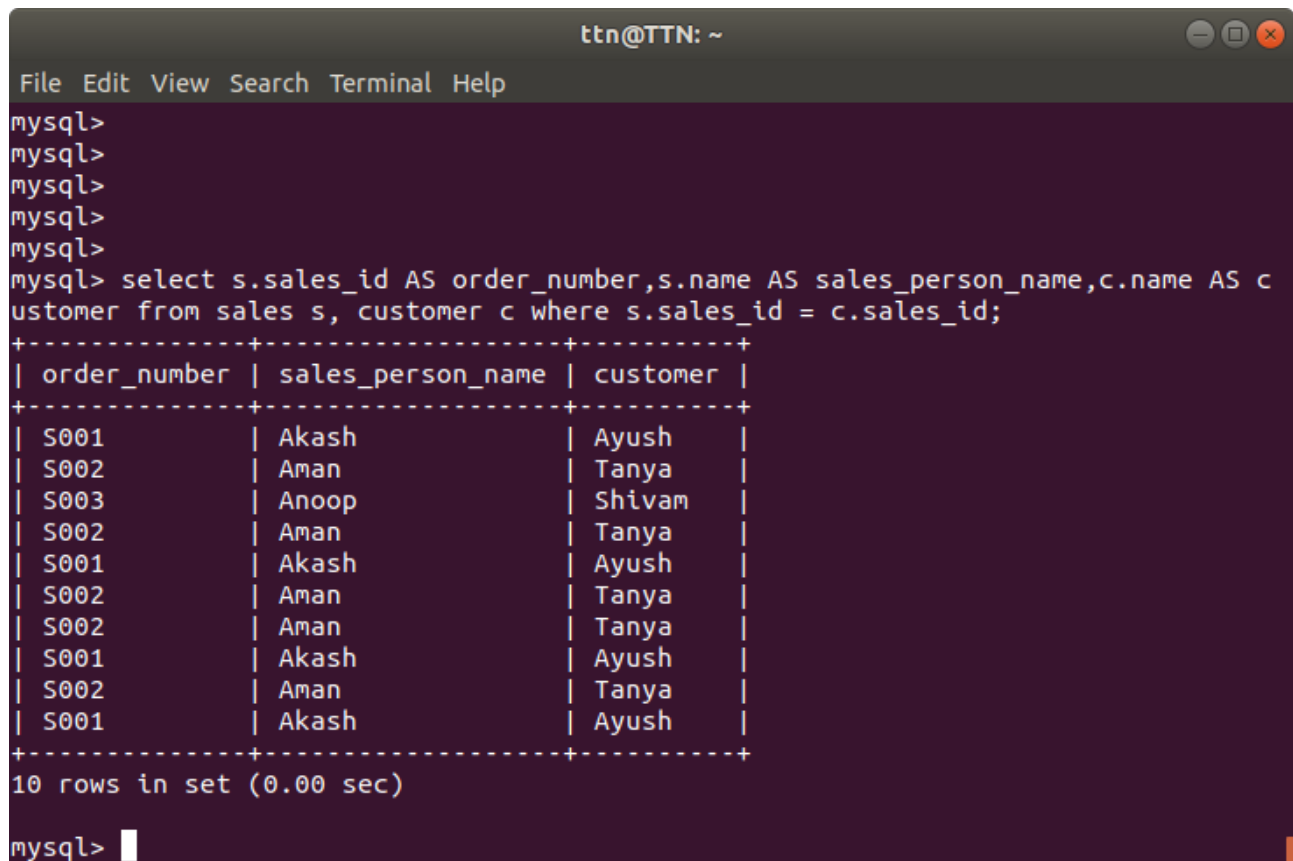
```
show index from table_name;
```

[illegible]

Q9.

Query:

select s.sales_id AS order_number,s.name AS sales_person_name,c.name AS customer from sales s, customer c where s.sales_id = c.sales_id;



A terminal window titled 'ttn@TTN: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows a MySQL prompt 'mysql>' followed by the query: 'select s.sales_id AS order_number,s.name AS sales_person_name,c.name AS customer from sales s, customer c where s.sales_id = c.sales_id;'. The output is a table with 10 rows and 3 columns: order_number, sales_person_name, and customer. The results are: S001, Akash, Ayush; S002, Aman, Tanya; S003, Anoop, Shivam; S002, Aman, Tanya; S001, Akash, Ayush; S002, Aman, Tanya; S002, Aman, Tanya; S001, Akash, Ayush; S002, Aman, Tanya; S001, Akash, Ayush. Below the table, it says '10 rows in set (0.00 sec)'. The prompt 'mysql>' is shown again at the bottom.

```
mysql>
mysql>
mysql>
mysql>
mysql> select s.sales_id AS order_number,s.name AS sales_person_name,c.name AS c
customer from sales s, customer c where s.sales_id = c.sales_id;
+-----+-----+-----+
| order_number | sales_person_name | customer |
+-----+-----+-----+
| S001         | Akash             | Ayush    |
| S002         | Aman              | Tanya    |
| S003         | Anoop             | Shivam   |
| S002         | Aman              | Tanya    |
| S001         | Akash             | Ayush    |
| S002         | Aman              | Tanya    |
| S002         | Aman              | Tanya    |
| S001         | Akash             | Ayush    |
| S002         | Aman              | Tanya    |
| S001         | Akash             | Ayush    |
+-----+-----+-----+
10 rows in set (0.00 sec)

mysql>
```