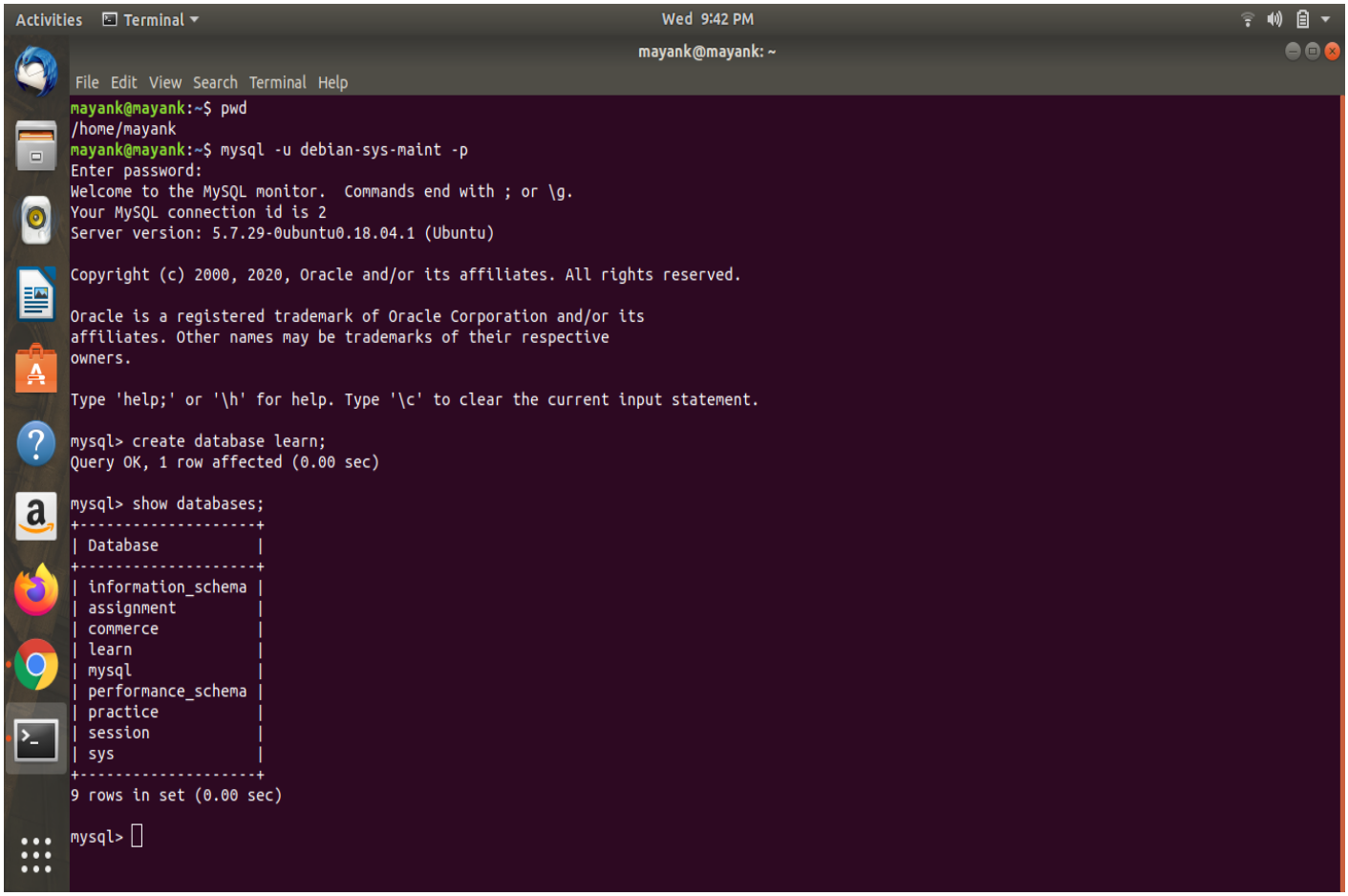
Introduction to DataBase Assignment

q1 Create Database



q2 Design Schema

```
mysql> desc customers;
+------------+-------------+------+-----+---------+----------------+
| Field      | Type        | Null | Key | Default | Extra          |
+------------+-------------+------+-----+---------+----------------+
| cust_Name  | varchar(100) | NO   |     | NULL    |                |
| order_id   | bigint(80)  | NO   | PRI | NULL    | auto_increment |
| order_name | varchar(50) | YES  |     | NULL    |                |
+------------+-------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)

mysql> desc sales_person;
+-------------+------------+------+-----+---------+-------+
| Field       | Type       | Null | Key | Default | Extra |
+-------------+------------+------+-----+---------+-------+
| Sales_person | varchar(70) | NO   |     | NULL    |       |
| order_id    | bigint(80) | NO   |     | NULL    |       |
| order_name  | varchar(50) | YES  |     | NULL    |       |
+-------------+------------+------+-----+---------+-------+
```

q3 Create tables

```
mysql> use learn;
Database changed
mysql> create table sales_person  ( Sales_person varchar (70) not null,   order_id bigint(80) not null,   order_name  varchar (50) );
Query OK, 0 rows affected (0.03 sec)

mysql> create table customers
    -> ( cust_Name varchar(100) not null,
    ->   order_id bigint(80) primary key not null auto_increment,
    ->   order_name varchar(50)
    -> );
Query OK, 0 rows affected (0.03 sec)
```

q4 Insert sample data

```
mysql> insert into customers(cust_Name , order_name) values ('Mayank','T.V');
Query OK, 1 row affected (0.01 sec)

mysql> insert into customers(cust_Name , order_name) values ('karan','Tablet');
Query OK, 1 row affected (0.01 sec)

mysql> insert into customers(cust_Name , order_name) values ('chetan','phone');
Query OK, 1 row affected (0.01 sec)

mysql> insert into customers(cust_Name , order_name) values ('Ayush','T.V');
Query OK, 1 row affected (0.01 sec)

mysql> insert into sales_person values ('Arjun',1,'T.V');
Query OK, 1 row affected (0.01 sec)

mysql> insert into sales_person values ('',1,'T.V');
Query OK, 1 row affected (0.01 sec)

mysql> insert into sales_person values ('chirag',2,'Tablet');
Query OK, 1 row affected (0.01 sec)

mysql> insert into sales_person values ('sagar',3,'phone');
Query OK, 1 row affected (0.01 sec)

mysql> insert into sales_person values ('Arjun',4,'T.V');
Query OK, 1 row affected (0.01 sec)

mysql> delete from sales_person where sales_person ='';
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from customers;
+-----------+----------+------------+
| cust_Name | order_id | order_name |
+-----------+----------+------------+
| Mayank    |        1 | T.V        |
| karan     |        2 | Tablet     |
| chetan    |        3 | phone      |
| Ayush     |        4 | T.V        |
+-----------+----------+------------+
4 rows in set (0.00 sec)

mysql> select * from sales_person;
+--------------+----------+------------+
| Sales_person | order_id | order_name |
+--------------+----------+------------+
| Arjun        |        1 | T.V        |
| chirag       |        2 | Tablet     |
| sagar        |        3 | phone      |
| Arjun        |        4 | T.V        |
+--------------+----------+------------+
4 rows in set (0.00 sec)
```

q5.Find the sales person have multiple orders.

```
mysql> select sales_person as repeated from sales_person group by sales_person having count(sales_person)>1;
+----------+
| repeated |
+----------+
| Arjun    |
+----------+
1 row in set (0.00 sec)
```

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

```
mysql> select sales_person.sales_person , customers.order_name
    -> from sales_person LEFT JOIN customers on sales_person.order_id = customers.order_id;
+--------------+------------+
| sales_person | order_name |
+--------------+------------+
| Arjun        | T.V        |
| chirag       | Tablet     |
| sagar        | phone      |
| Arjun        | T.V        |
+--------------+------------+
4 rows in set (0.00 sec)
```

q7. Create index

```
mysql> create index i1 on customers (cust_Name);
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

q8. How to show index on a table

```
mysql> show index from customers;
+-----------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+
---------------+
| Table     | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment |
 Index_comment |
+-----------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+
---------------+
| customers |          0 | PRIMARY  |            1 | order_id    | A         |           4 |     NULL | NULL   |      | BTREE      |         |
               |
| customers |          1 | i1       |            1 | cust_Name   | A         |           4 |     NULL | NULL   |      | BTREE      |         |
               |
+-----------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+
---------------+
```

q9. Find the order number, sale person name, along with the customer to whom that order belongs to

```
mysql> select customers.cust_Name ,customers.order_name, sales_person.Sales_person from sales_person RIGHT JOIN customers on sales_person.orde
r_id = customers.order_id;
+-----------+------------+--------------+
| cust_Name | order_name | Sales_person |
+-----------+------------+--------------+
| Mayank    | T.V        | Arjun        |
| karan     | Tablet     | chirag       |
| chetan    | phone      | sagar        |
| Ayush     | T.V        | Arjun        |
+-----------+------------+--------------+
4 rows in set (0.00 sec)

mysql>
```