Assignment – 16
Creating Tables and Indexes

1) Write a command that will enable a user to pull orders grouped by date out of the Orders table quickly.

Ans:-

Query:- create index i_order_odate on orders(Odate);

```
D3_92975_siddarth>create index i_order_odate on orders(Odate);
Query OK, 0 rows affected (0.10 sec)
Records: 0  Duplicates: 0  Warnings: 0

D3_92975_siddarth>show indexes from orders;
+---------+------------+--------------+--------------+-------------+-----------+-------------
| Table   | Non_unique | Key_name     | Seq_in_index | Column_name | Collation | Cardinality
+---------+------------+--------------+--------------+-------------+-----------+-------------
| orders  |          1 | i_order_odate |            1 | Odate       | A         |           3
+---------+------------+--------------+--------------+-------------+-----------+-------------
1 row in set (0.02 sec)
```

2) If the Orders table has already been created, how can you force the onum field to be unique (assume all current values are unique)?
   Ans:-
   Mysql> alter table orders
    -> add unique(onum);

3) Create an index that would permit each salesperson to retrieve his or her orders grouped   by date quickly.

Ans:-

Mysql>   create index i_orders_Snum_odate on

            -> orders (Snum,Odate);

```
D3_92975_siddarth> show indexes from orders;
+--------+------------+-------------------+--------------+-------------+-----------+-------------+----------+------
| Table  | Non_unique | Key_name          | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Pack
+--------+------------+-------------------+--------------+-------------+-----------+-------------+----------+------
| orders |          0 | Onum              |            1 | Onum        | A         |           8 |     NULL | NUL
| orders |          1 | i_order_odate     |            1 | Odate       | A         |           3 |     NULL | NUL
| orders |          1 | i_orders_Snum_odate |          1 | Snum        | A         |           5 |     NULL | NUL
| orders |          1 | i_orders_Snum_odate |          2 | Odate       | A         |           7 |     NULL | NUL
+--------+------------+-------------------+--------------+-------------+-----------+-------------+----------+------
4 rows in set (0.01 sec)
```

4) Let us assume that each salesperson is to have only one customer of a given rating, and that this is currently the case. Enter a command that enforces it.

Ans:-

   Mysql> ALTER table customers2 add unique(rating,Snum);

   NOTE:- Where CUSTOMERS2 is copy of CUSTOMERS table .