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.

Query : create index i_datewise_group on orders (odate);

```
D3_92969_Dhananjay>create index i_datewise_group on orders (odate);
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
D3_92969_Dhananjay>show indexes from orders;
+--------+------------+-----------------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+
| Table  | Non_unique | Key_name        | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |
+--------+------------+-----------------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+
| orders |          1 | i_datewise_group |            1 | Odate       | A         |           3 |     NULL |   NULL | YES  | BTREE      |         |               | YES     | NULL       |
+--------+------------+-----------------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+
1 row in set (0.01 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)?

```
D3_92969_Dhananjay>alter table orders add constraint unique_onum Unique(onum);
Query OK, 0 rows affected (0.06 sec)
Records: 0  Duplicates: 0  Warnings: 0

D3_92969_Dhananjay>desc orders ;
+-------+------------+------+-----+---------+-------+
| Field | Type       | Null | Key | Default | Extra |
+-------+------------+------+-----+---------+-------+
| Onum  | int        | YES  | UNI | NULL    |       |
| Amt   | float(7,2) | YES  |     | NULL    |       |
| Odate | date       | YES  | MUL | NULL    |       |
| Cnum  | int        | YES  |     | NULL    |       |
| Snum  | int        | YES  |     | NULL    |       |
+-------+------------+------+-----+---------+-------+
5 rows in set (0.03 sec)
```

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

```
D3_92969_Dhananjay>create index i_snum_date on orders (snum, odate);
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

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.

```
D3_92969_Dhananjay>create index i_snum_date on orders (snum, odate);
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0
```