

## 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_92972_Shubham>create index i_datewise_group on orders (odate);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0

D3_92972_Shubham>select index from orders;
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 'index from orders' at line 1
D3_92972_Shubham>show indexes from orders;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_p
art	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
orders		1	i_datewise_group	1	Odate	A	3
ULL	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)?

alter table orders add constraint unique\_onum unique(onum);

```
D3_92972_Shubham>alter table orders add constraint unique_onum unique(onum);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0

D3_92972_Shubham>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 (0.01 sec)

D3\_92972\_Shubham>\_

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

create index i\_snum\_date on orders(snum, odate);

```
D3_92972_Shubham>create index i_snum_date on orders(snum, odate);
Query OK, 0 rows affected (0.03 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.

create index i\_snum\_date on orders(snum,odate);

```
D3_92972_Shubham>create index i_snum_date on orders(snum,odate);  
ERROR 1061 (42000): Duplicate key name 'i_snum_date'  
D3_92972_Shubham>
```