

## Assignment – 16

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

create index idx\_odate on Orders(odate);

```
W1_89793_Saurabh>use classwork;
Database changed
W1_89793_Saurabh>create index idx_odate on Orders(odate);
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
W1_89793_Saurabh>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	idx_odate	1	Odate	A	4	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)?

ALTER TABLE Orders ADD CONSTRAINT unique\_onum UNIQUE (Onum);

```
W1_89793_Saurabh>ALTER TABLE Orders
-> ADD CONSTRAINT unique_onum UNIQUE (Onum);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

3) Create an index that would permit each salesperson to retrieve his or her orders grouped by date quickly.  
CREATE INDEX idx\_salesperson\_date ON Orders(Snum, Odate);

```
W1_89793_Saurabh>CREATE INDEX idx_salesperson_date ON Orders(Snum, Odate);
Query OK, 0 rows affected (0.06 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.

alter table customers ADD CONSTRAINT unique\_salesperson\_rating UNIQUE (Snum, Rating);

```
W1_89793_Saurabh>alter table customers ADD CONSTRAINT unique_salesperson_rating UNIQUE (Snum, Rating);
ERROR 1062 (23000): Duplicate entry '1004-200' for key 'customers.unique_salesperson_rating'
W1_89793_Saurabh>
```