

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.

```
W2_93085_Tejas CREATE INDEX idx_order_date
```

```
-> ON ORDERS (ODATE);
```

```
Query OK, 0 rows affected (0.11 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
W2_93085_Tejas SELECT ODATE, COUNT(*) AS Total_Orders, SUM(AMT) AS Total_Amount
```

```
-> FROM ORDERS
```

```
-> GROUP BY ODATE
```

```
-> ORDER BY ODATE;
```

ODATE	Total_Orders	Total_Amount
1990-10-03	5	8944.59
1990-10-04	2	1788.98
1990-10-06	1	1309.95

```
3 rows in set (0.00 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)?

```
W2_93085_Teja1 ALTER TABLE ORDERS
  -> ADD CONSTRAINT unique_onum UNIQUE (ONUM);
Query OK, 0 rows affected (0.06 sec)
Records: 0  Duplicates: 0  Warnings: 0

W2_93085_Teja1 SELECT *FROM ORDERS;
```

Onum	Amt	Odate	Cnum	Snum
3001	18.69	1990-10-03	2008	1007
3003	767.19	1990-10-03	2001	1001
3002	1900.10	1990-10-03	2007	1004
3005	5160.45	1990-10-03	2003	1002
3006	1098.16	1990-10-03	2008	1007
3009	1713.23	1990-10-04	2002	1003
3007	75.75	1990-10-04	2004	1002
3010	1309.95	1990-10-06	2004	1002

8 rows in set (0.00 sec)

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

```
W2_93085_Tejal CREATE INDEX idx_snum_odate
-> ON ORDERS (SNUM, ODATE);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
W2_93085_Tejal SELECT SNUM, ODATE, COUNT(*) AS Total_Orders, SUM(AMT) AS Total_Amount
-> FROM ORDERS
-> GROUP BY SNUM, ODATE;
```

SNUM	ODATE	Total_Orders	Total_Amount
1001	1990-10-03	1	767.19
1002	1990-10-03	1	5160.45
1002	1990-10-04	1	75.75
1002	1990-10-06	1	1309.95
1003	1990-10-04	1	1713.23
1004	1990-10-03	1	1900.10
1007	1990-10-03	2	1116.85

```
7 rows in set (0.00 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.

