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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.

```
KD1-89245-Bhagi>select odate, count(amt)from orders
    -> group by odate;
+------------+------------+
| odate      | count(amt) |
+------------+------------+
| 1990-10-03 |          5 |
| 1990-10-04 |          2 |
| 1990-10-06 |          2 |
| 1990-10-05 |          1 |
+------------+------------+
4 rows 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)?

```
KD1-89245-Bhagi>create unique index ind_b on orders(onum);
Query OK, 0 rows affected (0.22 sec)
Records: 0  Duplicates: 0  Warnings: 0

KD1-89245-Bhagi>insert into orders(onum) values(3001);
ERROR 1062 (23000): Duplicate entry '3001' for key 'orders.ind_b'
KD1-89245-Bhagi>create index ind_c on
    -> orders(odate, snum);
Query OK, 0 rows affected (0.05 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.

```
KD1-89245-Bhagi>select snum, odate from orders
    -> group by odate, snum;
+------+------------+
| snum | odate      |
+------+------------+
| 1001 | 1990-10-03 |
| 1002 | 1990-10-03 |
| 1004 | 1990-10-03 |
| 1007 | 1990-10-03 |
| 1002 | 1990-10-04 |
| 1003 | 1990-10-04 |
| 1001 | 1990-10-05 |
| 1001 | 1990-10-06 |
| 1002 | 1990-10-06 |
+------+------------+
9 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.

create unique index i_customers_snum on CUSTOMERS(Snum, Rating);