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

```
W3_93119_susnant>
w3_93119_sushant>create index ind_orders_odate on orders (odate);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
w3_93119_sushant>select odate , sum(amt), count(*) from orders group by odate;
                          count(*)
  odate
             | sum(amt) |
  1990-10-03
                8944.59
                                 5
  1990-10-04
                1788.98
                                 2
                                 1 |
  1990-10-06 |
                9891.88
3 rows 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)?

```
w3_93119_sushant>insert into orders(onum)
                                             select 1234 where 1234 not in (select onum from orders);
Query OK, 1 row affected (0.01 sec)
Records: 1 Duplicates: 0 Warnings: 0
w3_93119_sushant>select * from orders:
                 | Odate
  Onum | Amt
                               I Cnum I Snum
  3001
           18.69 |
                   1990-10-03
                                 2008
                                        1007
          767.19
                   1990-10-03
  3003
                                 2008
                                        1007
         1900.10
                   1990-10-03
                                        1004
  3002
                                 2007
  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
         9891.88
                   1990-10-06
  3010
                                 2004
                                        1002
  1234
            NULL |
                   NULL
                                 NULL
                                        NULL
9 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.

```
w3_93119_sushant>create index index_orders_odate on orders (snum.odate);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
w3_93119_sushant>select odate ,count(onum),sum(amt) from orders group by odate;
               count(onum) | sum(amt)
 odate
 NULL
                         1
                                 NULL
 1990-10-03
                         5
                              8944.59
  1990-10-04
                         2
                              1788.98
  1990-10-06
                         1 I
                              9891.88
4 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.

