<u>Assignment – 11</u> <u>Subqueries.</u>

1) Write a query that uses a subquery to obtain all orders for the customer named Cisneros. Assume you do not know his customer number (cnum).

```
mysql> select * from orders where cnum=(select cnum from customers where cname='Cisneros');
  Onum
         Amt
                  | Odate
                                Cnum |
                                        Snum |
  3001
           18.69
                   1990-10-03
                                 2008
                                        1007
         1098.16
  3006
                   1990-10-03
                                 2008
                                        1007
2 rows in set (0.00 sec)
mysql>
```

2) Write a query that produces the names and ratings of all customers who have above-average orders.

```
mysql> ^C
mysql> SELECT cname, rating
    -> FROM customers
    -> WHERE cnum IN (
           SELECT cnum
    ->
           FROM orders
           GROUP BY cnum
    ->
           HAVING COUNT(*) > (
                SELECT AVG(order_count)
    ->
                FROM (
    ->
                    SELECT cnum, COUNT(*) AS order_count
                    FROM orders
    ->
                    GROUP BY cnum
    ->
                ) AS avg_orders
    ->
    ->
    -> );
             rating
  cname
  Grass
                 300
  Clemens
                 100
  Cisneros
                 300
3 rows in set (0.01 sec)
mysql>
```

3) Write a query that selects the total amount in orders for each salesperson for whom this total is greater than the amount of the largest order in the table.