Assignment – 11
Subqueries.

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 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
+------+---------+------------+------+------+
2 rows in set (0.00 sec)
```

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

```
mysql> SELECT cname, rating
    -> FROM customers c
    -> WHERE (SELECT COUNT(*)
    -> FROM orders o
    -> WHERE o.cnum=c.cnum)
    -> >(SELECT AVG(order_count)
    -> FROM (SELECT COUNT(*) order_count FROM orders GROUP BY cnum) AS orders_counts);
+----------+--------+
| cname    | rating |
+----------+--------+
| Grass    |    300 |
| Clemens  |    100 |
| Cisneros |    300 |
+----------+--------+
3 rows in set (0.01 sec)
```

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.

```
mysql> SELECT SUM(amt) total_amt, snum FROM orders
    -> GROUP BY snum
    -> HAVING SUM(amt)>(SELECT MAX(amt) FROM orders);
+-----------+------+
| total_amt | snum |
+-----------+------+
|  15382.07 | 1001 |
+-----------+------+
1 row in set (0.00 sec)
```