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 (0.01 sec)
```

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

```
mysql> select c.cname, c.rating
    -> from customers c
    -> join orders o on c.cnum = o.cnum
    -> group by c.cname, c.rating
    -> having sum(o.amt) > (select avg(amt) from orders);
+---------+--------+
| cname   | rating |
+---------+--------+
| Liu     |    200 |
| Clemens |    100 |
+---------+--------+
2 rows in set (0.02 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 s.snum, s.sname, sum(o.amt) as total_sales
    -> from salespeople s
    -> join orders o on s.snum = o.snum
    -> group by s.snum, s.sname
    -> having sum(o.amt) > (select max(amt) from orders);
+------+-------+-------------+
| snum | sname | total_sales |
+------+-------+-------------+
| 1001 | Peel  |    15382.07 |
+------+-------+-------------+
1 row in set (0.00 sec)
```