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 CNAME, RATING FROM CUSTOMERS
    ->     WHERE RATING > (SELECT AVG(RATING) FROM CUSTOMERS);
+----------+--------+
| CNAME    | RATING |
+----------+--------+
| Giovanni |    200 |
| Liu      |    200 |
| Grass    |    300 |
| Cisneros |    300 |
+----------+--------+
4 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 ORDERS.SNUM,SUM(ORDERS.AMT) FROM ORDERS
    ->     GROUP BY ORDERS.SNUM
    ->     HAVING SUM(ORDERS.AMT) > (SELECT MAX(AMT) FROM ORDERS);
+------+-----------------+
| SNUM | SUM(ORDERS.AMT) |
+------+-----------------+
| 1001 |        15382.07 |
+------+-----------------+
1 row in set (0.01 sec)
```