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).

```
W1_Minal_93084>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.

```
W1_Minal_93084>SELECT c.cname, c.rating
    -> FROM Customers c
    -> WHERE c.cnum IN (
    -> SELECT o.cnum
    -> FROM Orders o
    -> GROUP BY o.cnum
    -> HAVING SUM(o.amt) > (
    -> SELECT AVG(amt)
    -> FROM Orders
    -> )
    -> );
+---------+--------+
| cname   | rating |
+---------+--------+
| Liu     |    200 |
| Clemens |    100 |
+---------+--------+
2 rows in set (0.00 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.

```
W1_Minal_93084>SELECT snum, SUM(amt) AS total_orders
    -> FROM Orders
    -> GROUP BY snum
    -> HAVING SUM(amt) > (
    ->     SELECT MAX(amt)
    ->     FROM Orders
    -> );
+------+--------------------+
| snum | total_orders       |
+------+--------------------+
| 1001 | 15382.069885253906 |
+------+--------------------+
1 row in set (0.01 sec)
```