Assignment – 11

Subqueries.

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

select * from orders where cnum = (Select cnum from customers where cname = "Cisneros");

```
W1_89793_Saurabh>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.

SELECT DISTINCT cname, rating FROM Customers WHERE cnum In(SELECT cnum FROM Orders WHERE amt > (SELECT AVG(amt) FROM Orders));

```
W1_89793_Saurabh>SELECT DISTINCT cname, rating FROM Customers
    -> WHERE cnum In(SELECT cnum FROM Orders
    -> WHERE 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.

SELECT snum,sum(amt) as total from orders group by snum having total > (select max(amt) from orders);

```
W1_89793_Saurabh>SELECT snum,sum(amt) as total from orders group
 by snum having total > (select max(amt) from orders);
+------+----------+
| snum | total    |
+------+----------+
| 1001 | 15382.07 |
+------+----------+
1 row in set (0.00 sec)
```