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).

```
KD3_86686_Vaibhav@>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.

```
KD3_86686_Vaibhav@>SELECT cname, rating
    -> FROM customers
    -> WHERE cnum IN (
    ->      SELECT cnum
    ->      FROM orders
    ->      GROUP BY cnum
    ->      HAVING AVG(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.

```
KD3_86686_Vaibhav@>SELECT SUM(amt) from orders
    -> group by snum
    -> having sum(amt) > (select
    -> max(amt) from orders);
+-----------+
| SUM(amt)  |
+-----------+
| 15382.07  |
+-----------+
1 row in set (0.00 sec)

KD3_86686_Vaibhav@>
```