

# Assignment No : 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).

```
W2_87323_Dhanashri>select * from orders where cnum in (select cnum from customers where cname ='Cisneros');
+-----+-----+-----+-----+-----+
| Onum | Amt   | Odate   | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3001 | 18.69 | 1990-08-03 | 2008 | 1007 |
| 3006 | 1098.16 | 1990-08-03 | 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.

```
W2_87323_Dhanashri>SELECT
->   Cname,
->   Rating
-> FROM
->   customers
-> WHERE
->   Cnum IN (
->     SELECT
->       Cnum
->     FROM
->       orders
->     GROUP BY
->       Cnum
->     HAVING
->       SUM(Amt) > (SELECT AVG(Amt) FROM orders)
->   );
+-----+-----+
| Cname | Rating |
+-----+-----+
| Liu   | 200    |
| Clemens | 100    |
+-----+-----+
2 rows in set (0.01 sec)

W2_87323_Dhanashri>
```

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.

```
W2_87323_Dhanashri>SELECT
->     Snum,
->     SUM(Amt) AS Total_Orders_Amount
-> FROM
->     orders
-> GROUP BY
->     Snum
-> HAVING
->     SUM(Amt) > (SELECT MAX(Amt) FROM orders);
+-----+-----+
| Snum | Total_Orders_Amount |
+-----+-----+
| 1001 |          15382.07 |
+-----+-----+
1 row in set (0.00 sec)
```