

## 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)

```
mysql>
```

2) Write a query that produces the names and ratings of all customers who have above-average orders.

```
mysql> SELECT C.Cname, C.Rating
-> FROM Customers C
-> JOIN Orders O ON C.Cnum = O.Cnum
-> GROUP BY C.Cname, C.Rating
-> HAVING AVG(O.Amt) > (
->     SELECT AVG(Amt) FROM Orders
-> );
```

Cname	Rating
Liu	200
Clemens	100

2 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 Snum, SUM(Amt) AS TotalAmount  
-> FROM Orders  
-> GROUP BY Snum  
-> HAVING SUM(Amt) > (  
->     SELECT MAX(Amt) FROM Orders  
-> );
```

```
+-----+-----+  
| Snum | TotalAmount |  
+-----+-----+  
| 1001 |    15382.07 |  
+-----+-----+  
1 row in set (0.01 sec)
```