

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
-> Onum AS 'Order Number',
-> Amt AS 'Order Amount',
-> Odate AS 'Order Date'
-> FROM orders
-> WHERE Cnum = ( SELECT Cnum FROM customers WHERE Cname = 'Cisneros'
-> );
```

Order Number	Order Amount	Order Date
3001	18.69	1990-10-03
3006	1098.16	1990-10-03

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.

```
mysql> SELECT
-> Cname AS 'Customer Name', Rating AS 'Rating'
-> FROM customers
-> WHERE Cnum IN (SELECT Cnum FROM orders GROUP BY Cnum
-> HAVING SUM(Amt) > ( SELECT AVG(Amt) FROM orders));
```

Customer Name	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
-> salespeople.Sname AS 'Salesperson Name',
-> SUM(orders.Amt) AS 'Total Order Amount'
-> FROM salespeople
-> JOIN orders ON salespeople.Snum = orders.Snum
-> GROUP BY salespeople.Snum
-> HAVING SUM(orders.Amt) > (SELECT MAX(Amt) FROM orders);
```

Salesperson Name	Total Order Amount
Peel	15382.07

1 row in set (0.00 sec)