## <u>Assignment – 11 Subqueries.</u>

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).

## Ans:

## **SELECT** \*

- -> FROM Orders
- -> WHERE cnum = (SELECT cnum
- -> FROM Customers
- -> WHERE cname = 'Cisneros');

```
mysql> SELECT *
    -> FROM Orders
    -> WHERE cnum = (SELECT cnum
    -> FROM Customers
    -> WHERE cname = 'Cisneros');
Empty set (0.00 sec)
```

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

```
Ans:
```

```
SELECT cname, rating
FROM Customers
WHERE cnum IN (
SELECT cnum
FROM Orders
GROUP BY cnum
HAVING AVG(amount) > (SELECT AVG(amount) FROM Orders)
);
```

```
mysql> SELECT cname, rating
   -> FROM Customers
   -> WHERE cnum IN (
   -> SELECT cnum
   -> FROM Orders
   -> GROUP BY cnum
   -> HAVING AVG(amount) > (SELECT AVG(amount) FROM Orders)
   -> );
Empty 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.

Ans:

**SELECT snum, SUM(amount) AS total\_sales** 

**FROM Orders** 

**GROUP BY snum** 

**HAVING SUM(amount) > (SELECT MAX(amount) FROM Orders)**;