

## Assignment 11

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).

```
KD2-SATYAJEET-86740@>select o.onum, c.cname from orders o, customers c where o.snum=c.snum and o.snum=(select snum from customers where cname='Cisneros');
+-----+-----+
| onum | cname |
+-----+-----+
| 3001 | Cisneros |
| 3006 | Cisneros |
+-----+-----+
2 rows in set (0.03 sec)
```

```
KD2-SATYAJEET-86740@>select o.onum, c.cname, o.amt, o.odate from orders o, customers c where o.snum=c.snum and o.Cnum=(select Cnum from customers where cname='Cisneros');
+-----+-----+-----+-----+
| onum | cname | amt | odate |
+-----+-----+-----+-----+
| 3006 | Cisneros | 1098.16 | 1990-10-03 |
| 3001 | Cisneros | 18.69 | 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.

```
Command Prompt - mysql -u x + v
KD2-SATYAJEET-86740@>
KD2-SATYAJEET-86740@>^C
KD2-SATYAJEET-86740@>select avg(o.amt) from orders o;
+-----+
| avg(o.amt) |
+-----+
| 2665.840002 |
+-----+
1 row in set (0.01 sec)

KD2-SATYAJEET-86740@>select o.cnum from orders o having avg(o.amt)>(select avg(o.amt) from orders o);
ERROR 1140 (42000): In aggregated query without GROUP BY, expression #1 of SELECT list contains nonaggregated column 'assignment1.o.Cnum'; this is incompatible with sql_mode=only_full_group_by
KD2-SATYAJEET-86740@>select o.cnum from orders o group by o.cnumhaving avg(o.amt)>(select avg(o.amt) from orders o);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'avg(o.amt)>(select avg(o.amt) from orders o)' at line 1
KD2-SATYAJEET-86740@>select o.cnum from orders o group by o.cnum having avg(o.amt)>(select avg(o.amt) from orders o);
+-----+
| cnum |
+-----+
| 2003 |
| 2006 |
+-----+
2 rows in set (0.00 sec)

KD2-SATYAJEET-86740@>select c.cname,c.rating from customers c where cnum in(select o.cnum from orders o group by o.cnum having avg(o.amt)>(select avg(o.amt) from orders o));
+-----+-----+
| cname | rating |
+-----+-----+
| Liu | 200 |
| Clemens | 100 |
+-----+-----+
2 rows in set (0.00 sec)

KD2-SATYAJEET-86740@>|
```

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

```
Database changed
KD2-SATYAJEET-86740@>select snum, sum(amt) from orders group by snum having sum(amt)> (select max(amt) from orders);
+-----+-----+
| snum | sum(amt) |
+-----+-----+
| 1001 | 15382.07 |
+-----+-----+
1 row in set (0.04 sec)

KD2-SATYAJEET-86740@>|
```