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 cnum from customers where cname='Cisneros';
+------+
| cnum |
+------+
| 2008 |
+------+

mysql> select onum from orders where cnum=
( select cnum from customers where cname='Cisneros');
+------+
| onum |
+------+
| 3001 |
| 3006 |
+------+
```

2) Write a query that produces the names and ratings of all customers who have above-average orders.
=>
1.
```
mysql> select avg(onum) from orders;
+-----------+
| avg(onum) |
+-----------+
| 3005.9000 |
+-----------+
```

2.
```
mysql> select onum from orders where amt > (select avg(onum) from orders);
+------+
| onum |
+------+
| 3002 |
| 3008 |
| 3011 |
+------+

mysql> select cname,rating from customers where cnum in
(select cnum from orders where Amt>
(select avg(Amt) from orders)
);
+---------+--------+
| cname   | rating |
+---------+--------+
| Liu     |    200 |
| Clemens |    100 |
```

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.
=>
1.
```
mysql> select max(amt) from orders;
```

```
+----------+
| max(amt) |
+----------+
|  9891.88 |
+----------+
```

```
2.mysql> select sum(amt) from orders group by snum;
+----------+
| sum(amt) |
+----------+
| 15382.07 |
|  1900.00 |
|  1116.85 |
|  6546.15 |
|  1713.23 |
+----------+
```

```
3.mysql> select sum(amt) from orders group by snum having sum(amt)> (select
max(amt) from orders);
+----------+
| sum(amt) |
+----------+
| 15382.07 |
+----------+
```