

Assignment – 11

Subqueries.

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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 9.0 Command Line Cli x + v
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 (0.18 sec)
```

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

```
mysql> select cname,rating from customers
-> where cnum IN
-> (select cnum from orders
-> group by cnum
-> HAVING SUM(amt) > (select AVG(amt)
-> from orders));
+-----+-----+
| cname | rating |
+-----+-----+
| Liu   | 200    |
| clemens | 100    |
+-----+-----+
2 rows in set (0.11 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 Total_sales
-> from orders
-> group by snum
-> HAVING SUM(amt) >(select MAX(amt)
-> from orders);
+-----+-----+
| snum | Total_sales |
+-----+-----+
| 1001 | 15382.07    |
+-----+-----+
1 row in set (0.01 sec)
```