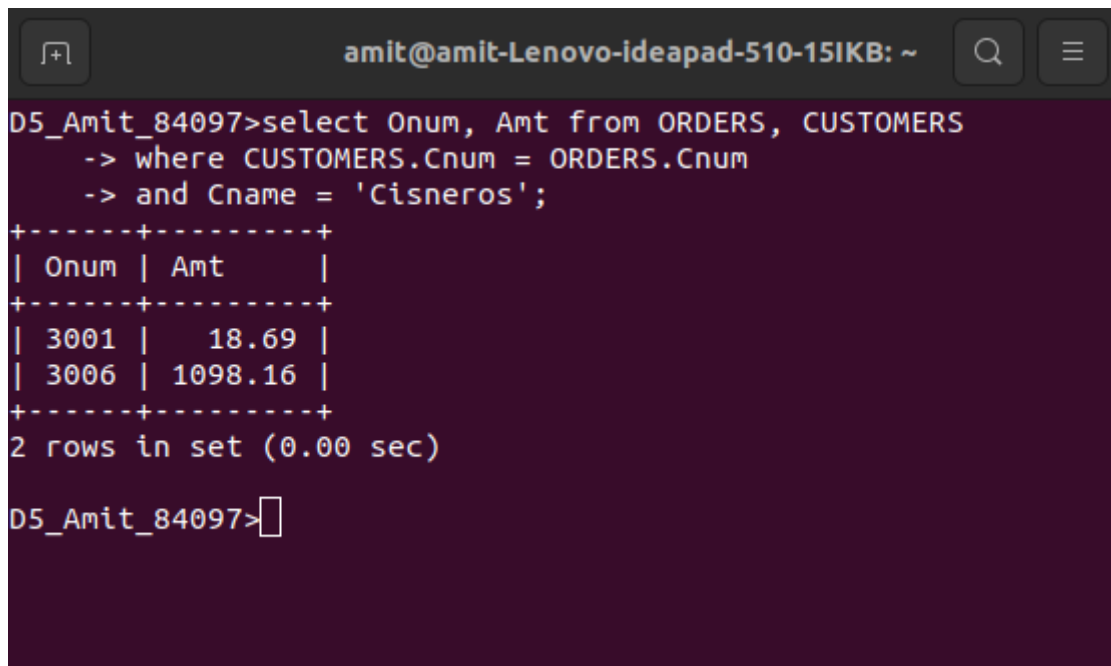


SQL Assignment – 11

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).

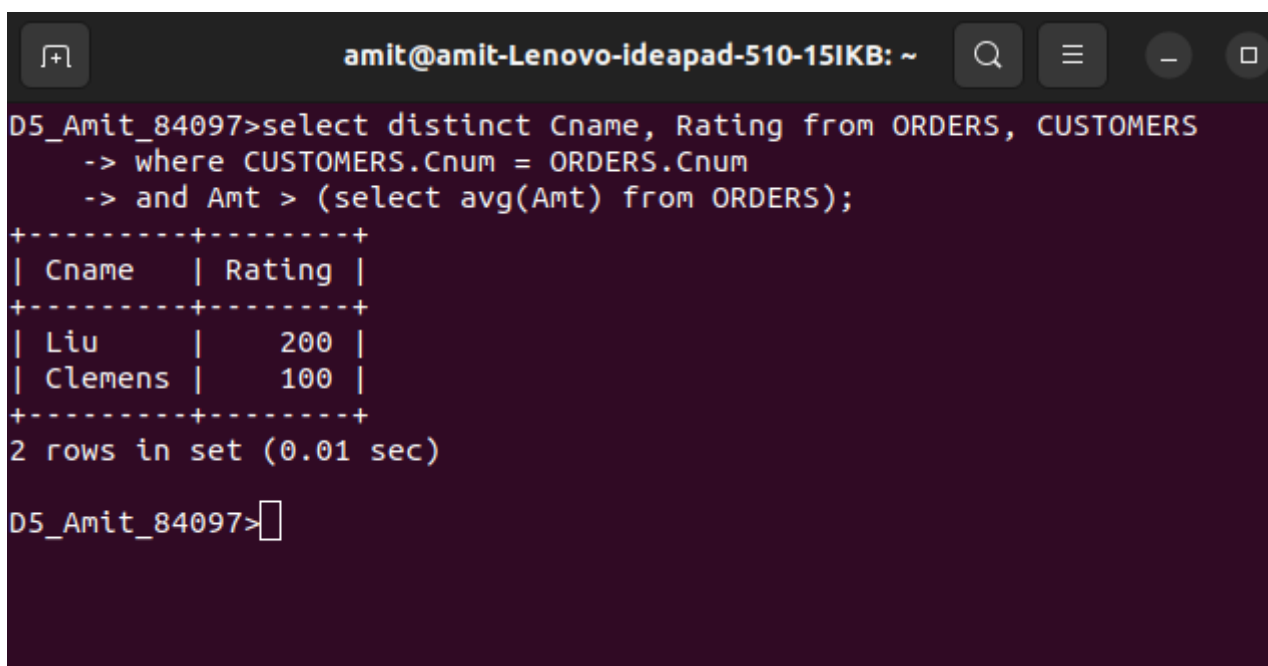
Ans:- select Onum, Amt from ORDERS, CUSTOMERS
where CUSTOMERS.Cnum = ORDERS.Cnum
and Cname = 'Cisneros';



```
amit@amit-Lenovo-ideapad-510-15IKB: ~  
D5_Amit_84097>select Onum, Amt from ORDERS, CUSTOMERS  
-> where CUSTOMERS.Cnum = ORDERS.Cnum  
-> and Cname = 'Cisneros';  
+-----+-----+  
| Onum | Amt      |  
+-----+-----+  
| 3001 | 18.69    |  
| 3006 | 1098.16  |  
+-----+-----+  
2 rows in set (0.00 sec)  
  
D5_Amit_84097>
```

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

Ans:- select distinct Cname, Rating from ORDERS, CUSTOMERS
where CUSTOMERS.Cnum = ORDERS.Cnum
and Amt > (select avg(Amt) from ORDERS);



```
amit@amit-Lenovo-ideapad-510-15IKB: ~  
D5_Amit_84097>select distinct Cname, Rating from ORDERS, CUSTOMERS  
-> where CUSTOMERS.Cnum = ORDERS.Cnum  
-> and Amt > (select avg(Amt) from ORDERS);  
+-----+-----+  
| Cname  | Rating |  
+-----+-----+  
| Liu    | 200    |  
| Clemens | 100    |  
+-----+-----+  
2 rows in set (0.01 sec)  
  
D5_Amit_84097>
```

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 Sname, sum(Amt) from ORDERS, SALESPEOPLE
where SALESPEOPLE.Snum = ORDERS.Snum
group by Sname
having sum(Amt) > (select max(Amt) from ORDERS);



The screenshot shows a terminal window with a dark background. The title bar at the top reads "amit@amit-Lenovo-ideapad-510-15IKB: ~". The terminal content shows a SQL query being executed in a MySQL environment. The query is: `select Sname, sum(Amt) from ORDERS, SALESPEOPLE where SALESPEOPLE.Snum = ORDERS.Snum group by Sname having sum(Amt) > (select max(Amt) from ORDERS);`. The output is a table with two columns: "Sname" and "sum(Amt)". The first row of data shows "Peel" with a sum of "15382.07". Below the table, it says "1 row in set (0.00 sec)". The prompt "D5_Amit_84097>" is visible at the bottom of the terminal.

```
amit@amit-Lenovo-ideapad-510-15IKB: ~  
D5_Amit_84097>select Sname, sum(Amt) from ORDERS, SALESPEOPLE  
-> where SALESPEOPLE.Snum = ORDERS.Snum  
-> group by Sname  
-> having sum(Amt) > (select max(Amt) from ORDERS);  
+-----+-----+  
| Sname | sum(Amt) |  
+-----+-----+  
| Peel  | 15382.07 |  
+-----+-----+  
1 row in set (0.00 sec)  
  
D5_Amit_84097>
```