SQL Queries

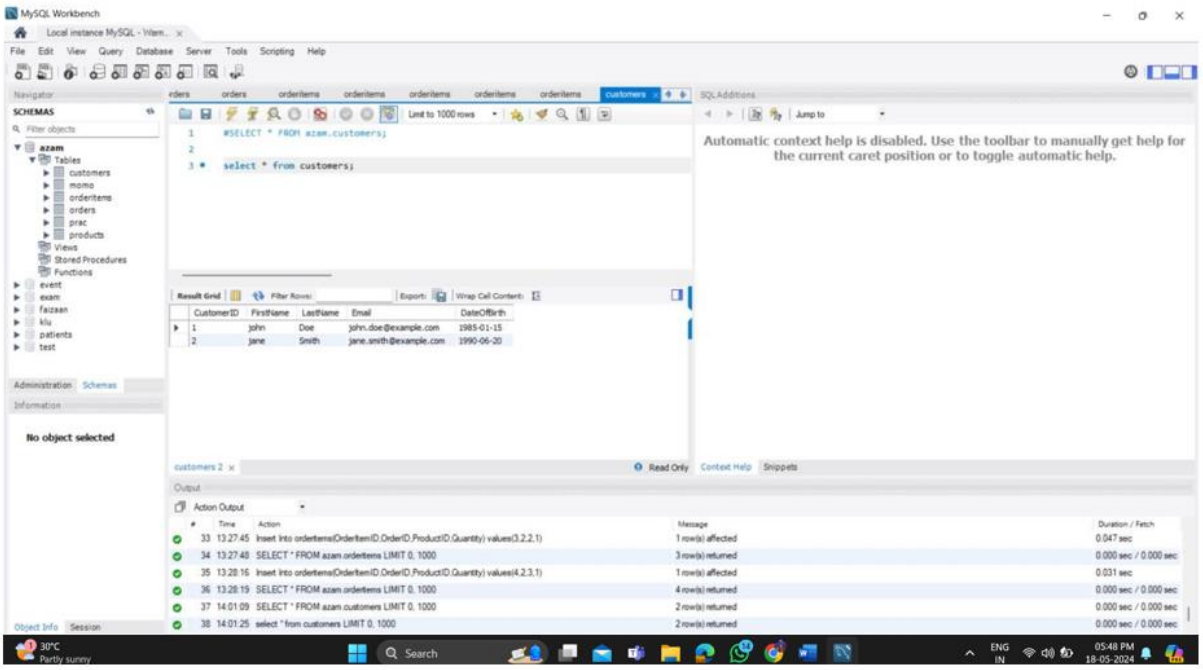
Id.no:2100030944

Name: T. Navya Sree

1). List all customers.

Sol) select * from customers;

Output:

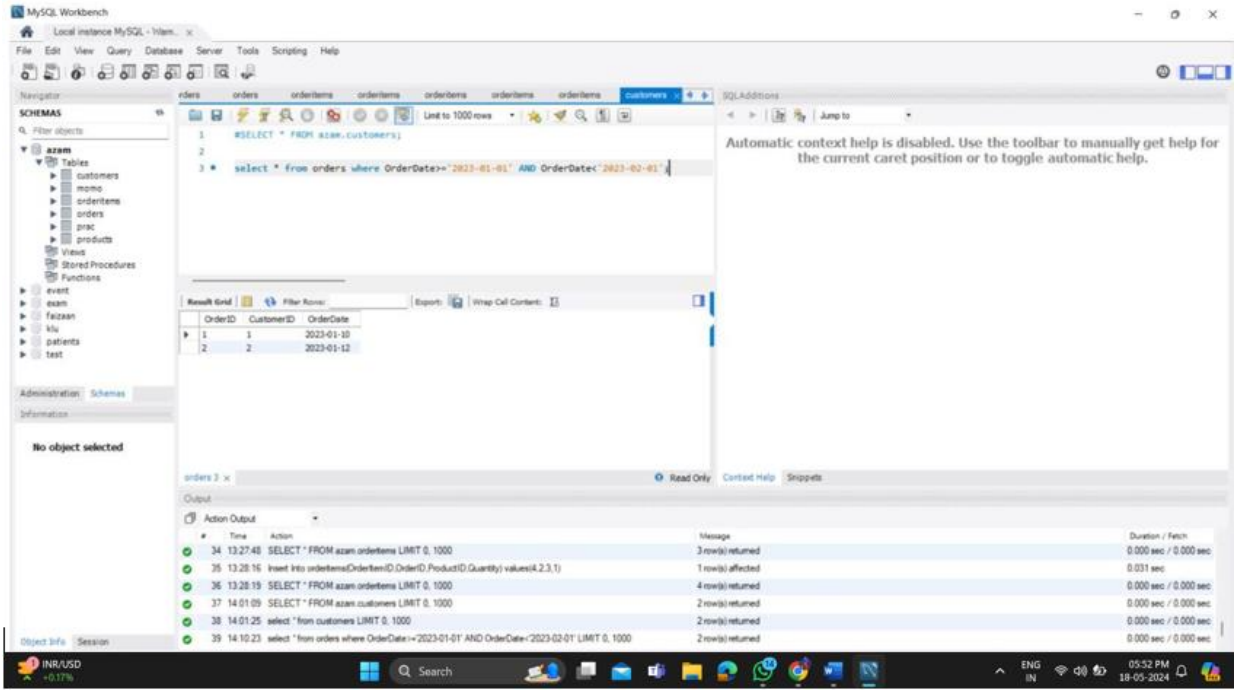


2). Find all orders placed in January 2023.

Sol).

select * from orders where OrderDate>='2023-01-01' AND OrderDate<'2023-02-01';

Output:

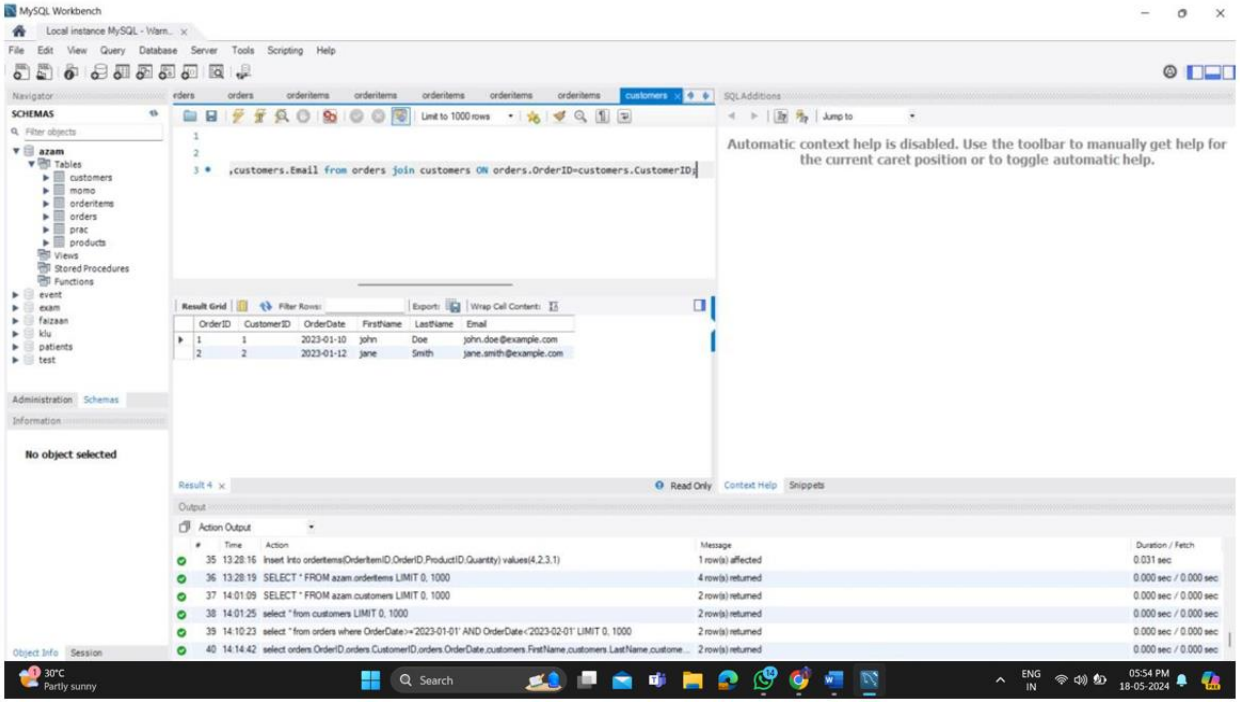


3) Get the details of each order, including the customer name and email.

Sol).

select orders.OrderID,orders.CustomerID,orders.OrderDate,customers.FirstName,customers.LastName,customers.Email from orders join customers ON orders.OrderID=customers.CustomerID;

Output:

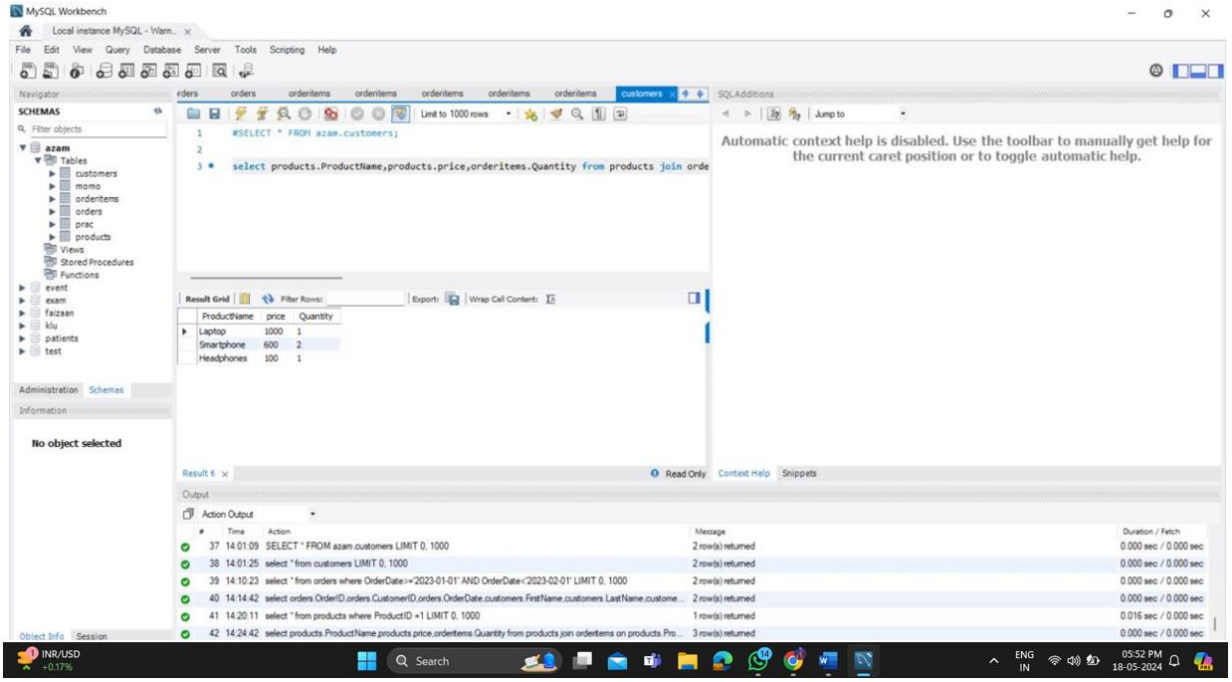


4) List the products purchased in a specific order (e.g., OrderID = 1).

Sol):

select products.ProductName,products.price,orderitems.Quantity from products join orderitems on products.ProductID=orderitems.OrderItemID;

Output:

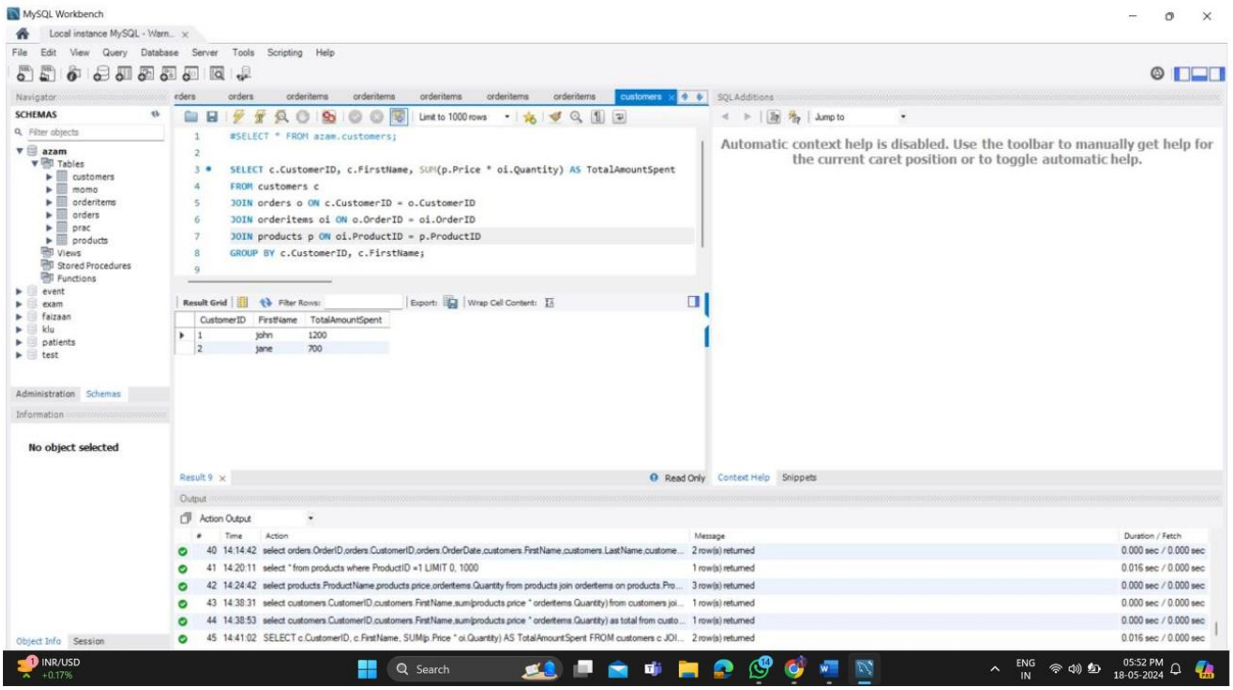


5) Calculate the total amount spent by each customer.

Sol)

```
SELECT c.CustomerID, c.FirstName, SUM(p.Price * oi.Quantity) AS TotalAmountSpent
FROM customers c
JOIN orders o ON c.CustomerID = o.CustomerID
JOIN orderitems oi ON o.OrderID = oi.OrderID
JOIN products p ON oi.ProductID = p.ProductID
GROUP BY c.CustomerID, c.FirstName;
```

Output:

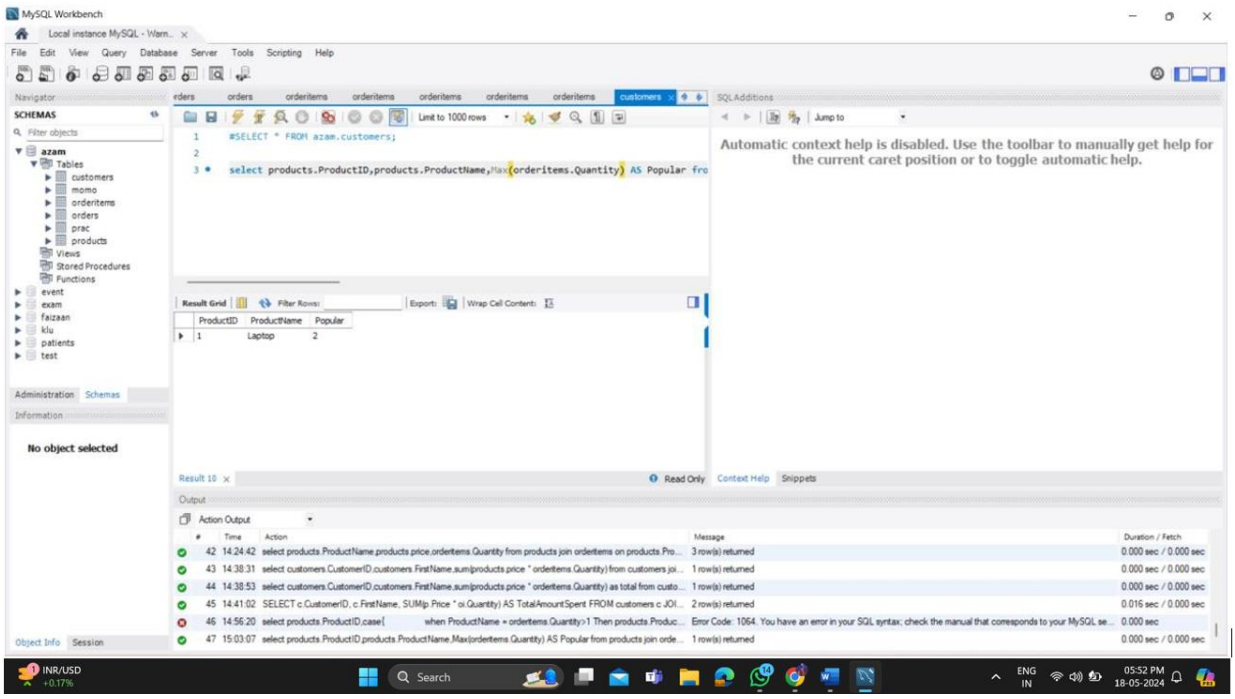


6) Find the most popular product (the one that has been ordered the most).

Sol).

```
select products.ProductID,products.ProductName,Max(orderitems.Quantity) AS Popular from products join orderitems on products.ProductID=orderitems.ProductID order by Popular desc;
```

Output:



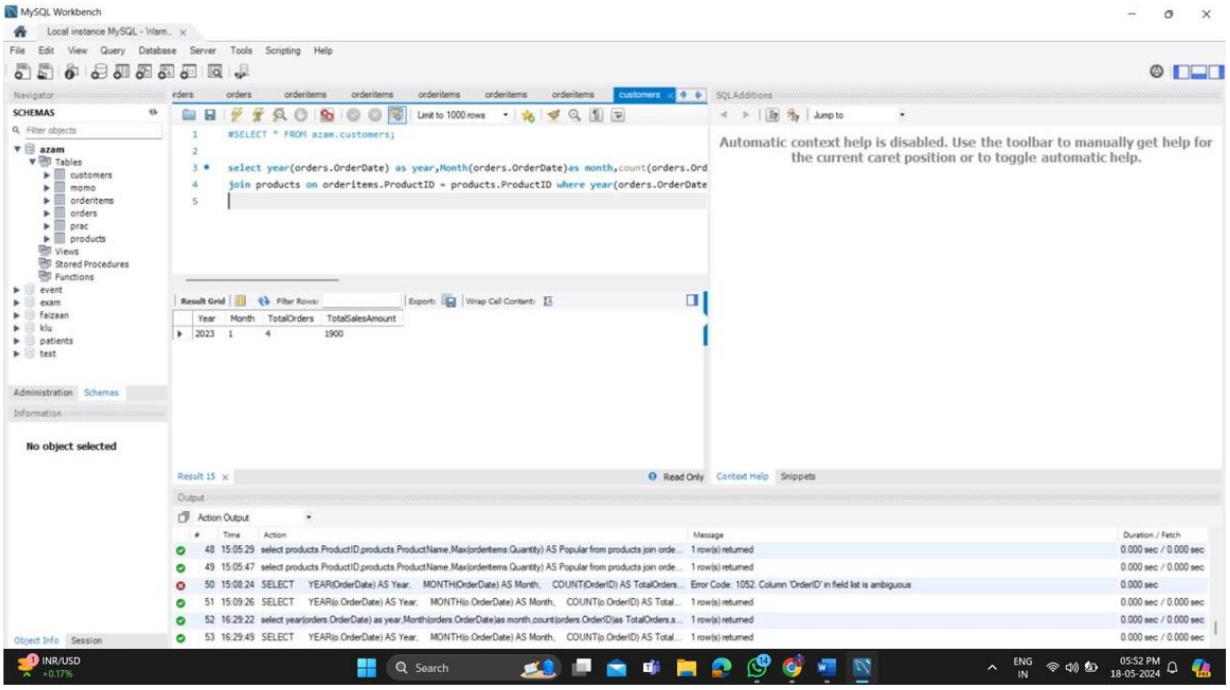
7) Get the total number of orders and the total sales amount for each month in 2023.

Sol):

select year(orders.OrderDate) as year,Month(orders.OrderDate)as month,count(orders.OrderID)as TotalOrders,sum(orderitems.Quantity * products.price) as Totalsumamount from orders join orderitems on orders.OrderID = orderitems.OrderID

join products on orderitems.ProductID = products.ProductID where year(orders.OrderDate) = 2023 order by year,month;

Output:

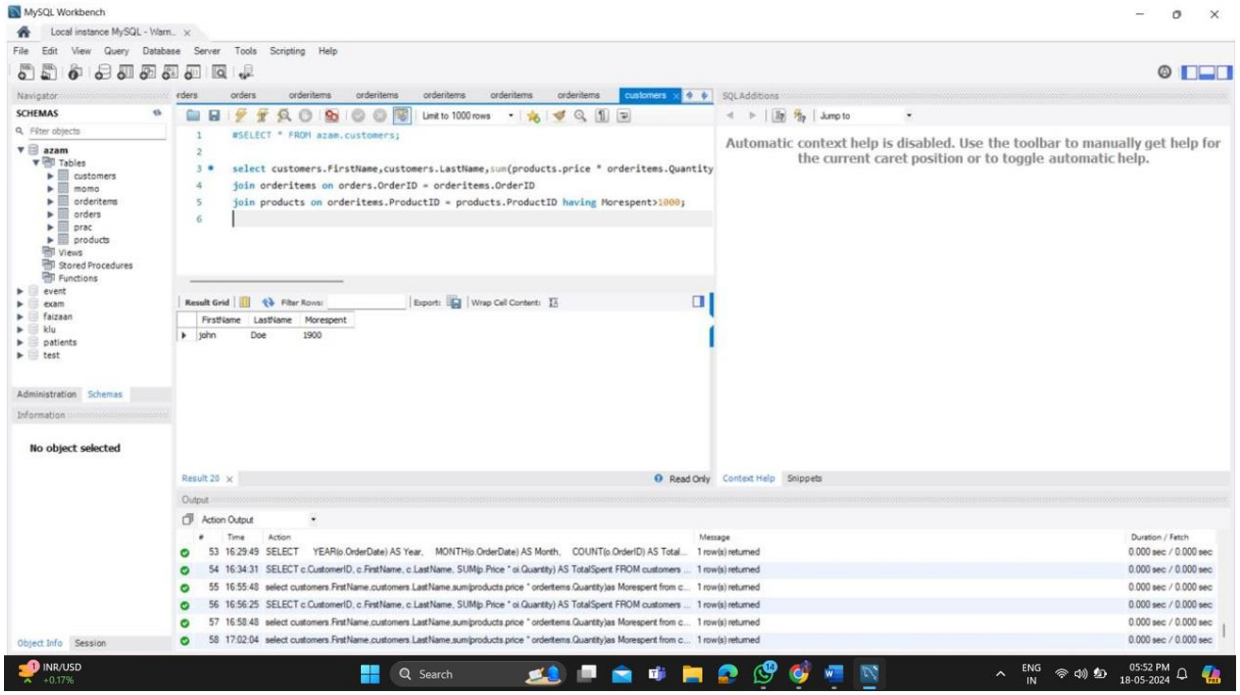


8) Find customers who have spent more than $1000

Sol)

```
select
customers.FirstName,customers.LastName,sum(products.price *
orderitems.Quantity)as Morespent from customers join orders on
customers.CustomerID = orders.CustomerID
join orderitems on orders.OrderID = orderitems.OrderID
join products on orderitems.ProductID = products.ProductID having
Morespent>1000;
```

Output:


MySQL Workbench
Local instance MySQL - Warn..
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
azam
Tables
customers
momo
orderitems
orders
prac
products
Views
Stored Procedures
Functions
event
exam
faizaan
klu
patients
test
Administration Schemas
Information
No object selected
Object Info Session
#SELECT * FROM azam.customers;
select customers.FirstName,customers.LastName,sum(products.price * orderitems.Quantity
join orderitems on orders.OrderID = orderitems.OrderID
join products on orderitems.ProductID = products.ProductID having Morespent>1000;
Result Grid
FirstName LastName Morespent
John Doe 1900
Result 28
Read Only
SQLAdditions
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
53 16:29:49 SELECT YEAR(o.OrderDate) AS Year, MONTH(o.OrderDate) AS Month, COUNT(o.OrderID) AS Total... 1 row(s) returned 0.000 sec / 0.000 sec
54 16:34:31 SELECT c.CustomerID, c.FirstName, c.LastName, SUM(p.Price * oi.Quantity) AS TotalSpent FROM customers ... 1 row(s) returned 0.000 sec / 0.000 sec
55 16:55:48 select customers.FirstName,customers.LastName,sum(products.price * orderitems.Quantity)as Morespent from c... 1 row(s) returned 0.000 sec / 0.000 sec
56 16:56:25 SELECT c.CustomerID, c.FirstName, c.LastName, SUM(p.Price * oi.Quantity) AS TotalSpent FROM customers ... 1 row(s) returned 0.000 sec / 0.000 sec
57 16:58:48 select customers.FirstName,customers.LastName,sum(products.price * orderitems.Quantity)as Morespent from c... 1 row(s) returned 0.000 sec / 0.000 sec
58 17:02:04 select customers.FirstName,customers.LastName,sum(products.price * orderitems.Quantity)as Morespent from c... 1 row(s) returned 0.000 sec / 0.000 sec
INR/USD +0.17%
Search
ENG IN
05:52 PM 18-05-2024