

SQL Queries

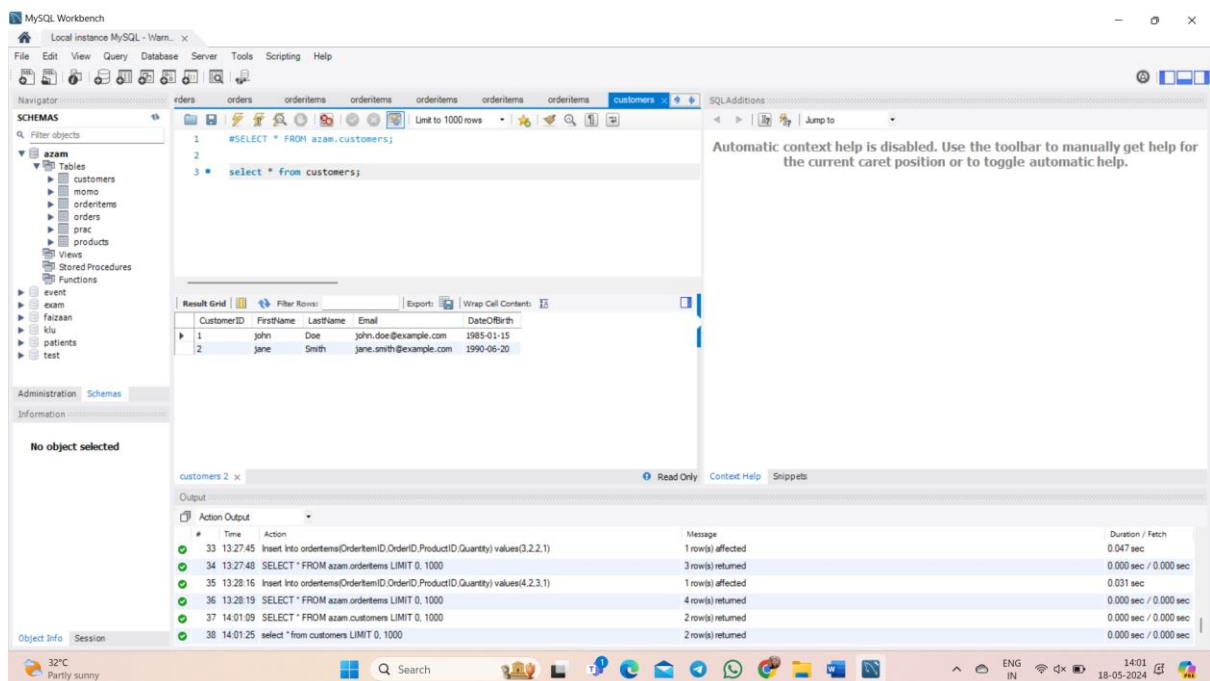
Id.no:2100030976

Name: Faizaan Azam Khan

1). List all customers.

Sol) select * from customers;

Output:

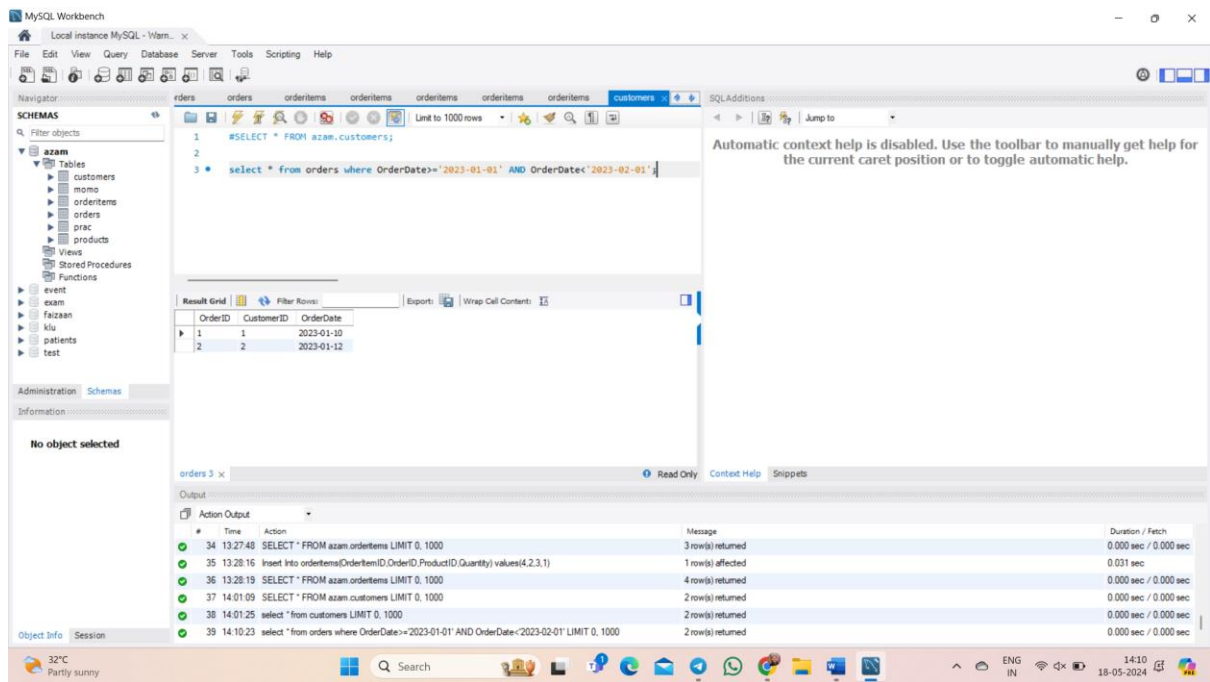


2). Find all orders placed in January 2023.

Sol).

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

Output:



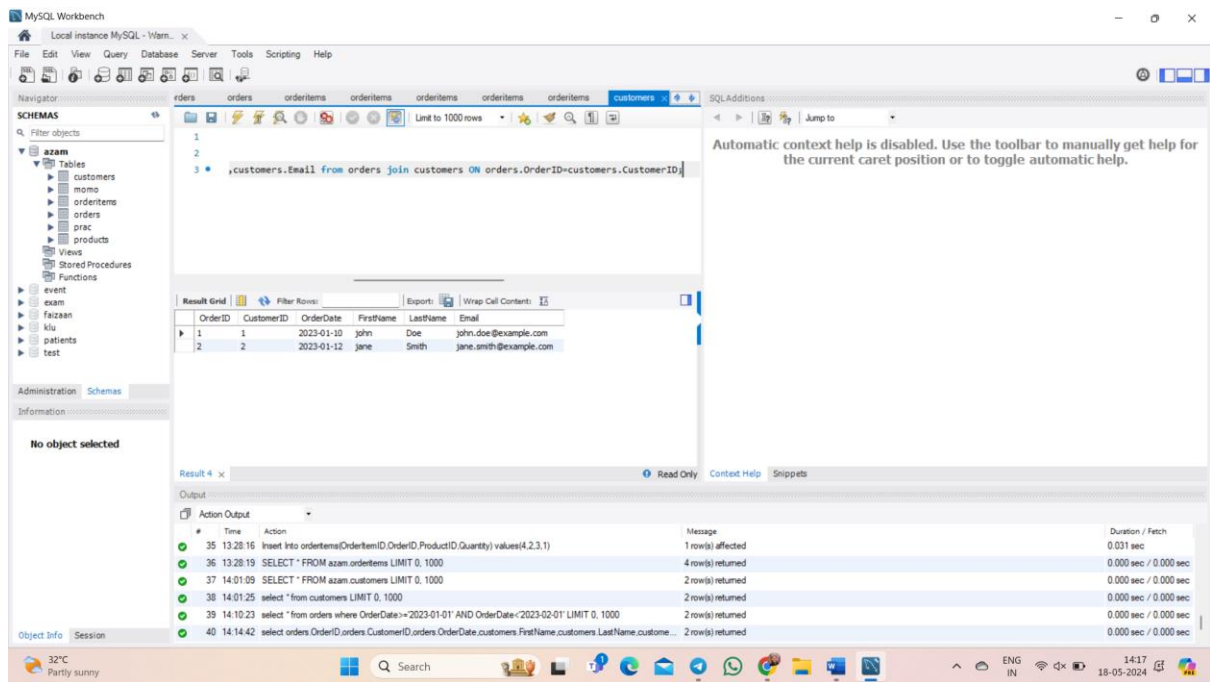
3) Get the details of each order, including the customer name and email.

Sol).

select

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

Output:

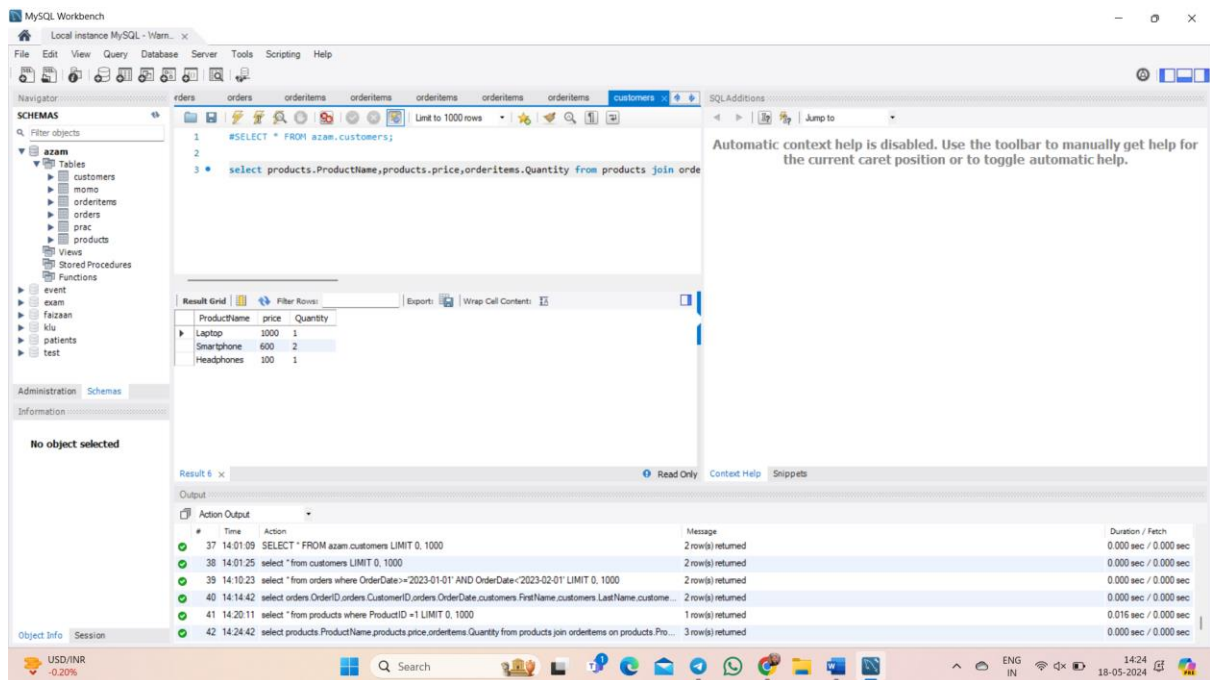


4) List the products purchased in a specific order (e.g., OrderID = 1).

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

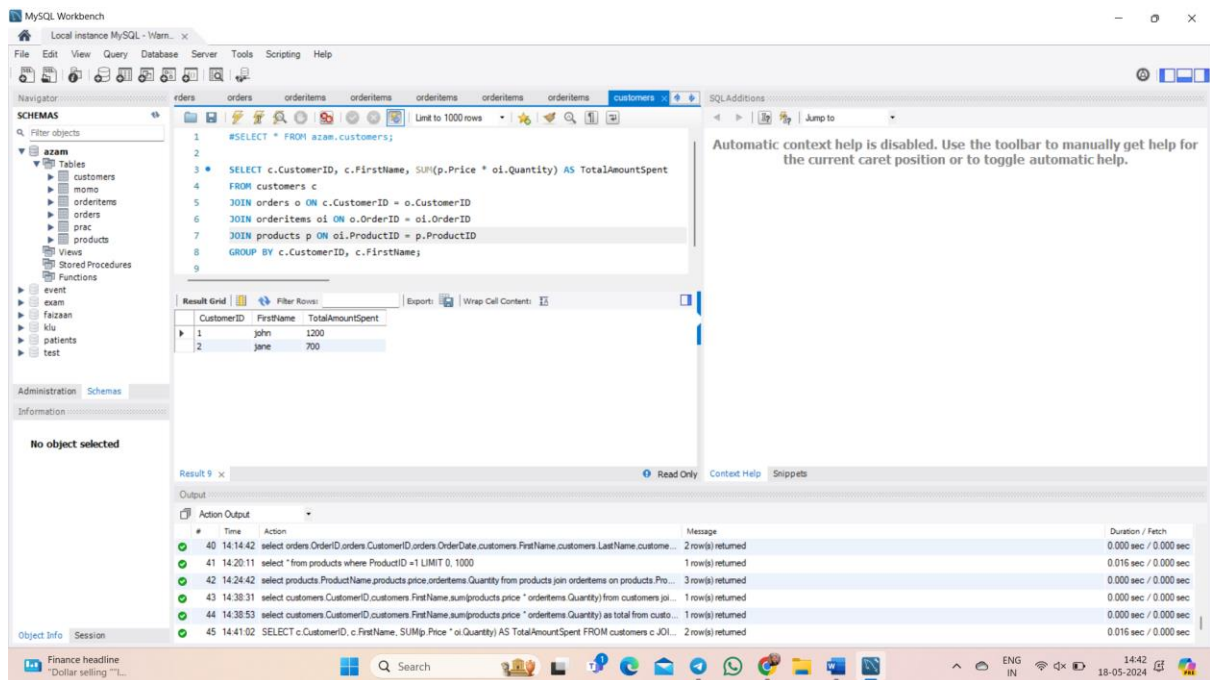
JOIN orders o ON c.CustomerID = o.CustomerID

JOIN orderitems oi ON o.OrderID = oi.OrderID

JOIN products p ON oi.ProductID = p.ProductID

GROUP BY c.CustomerID, c.FirstName;

Output:

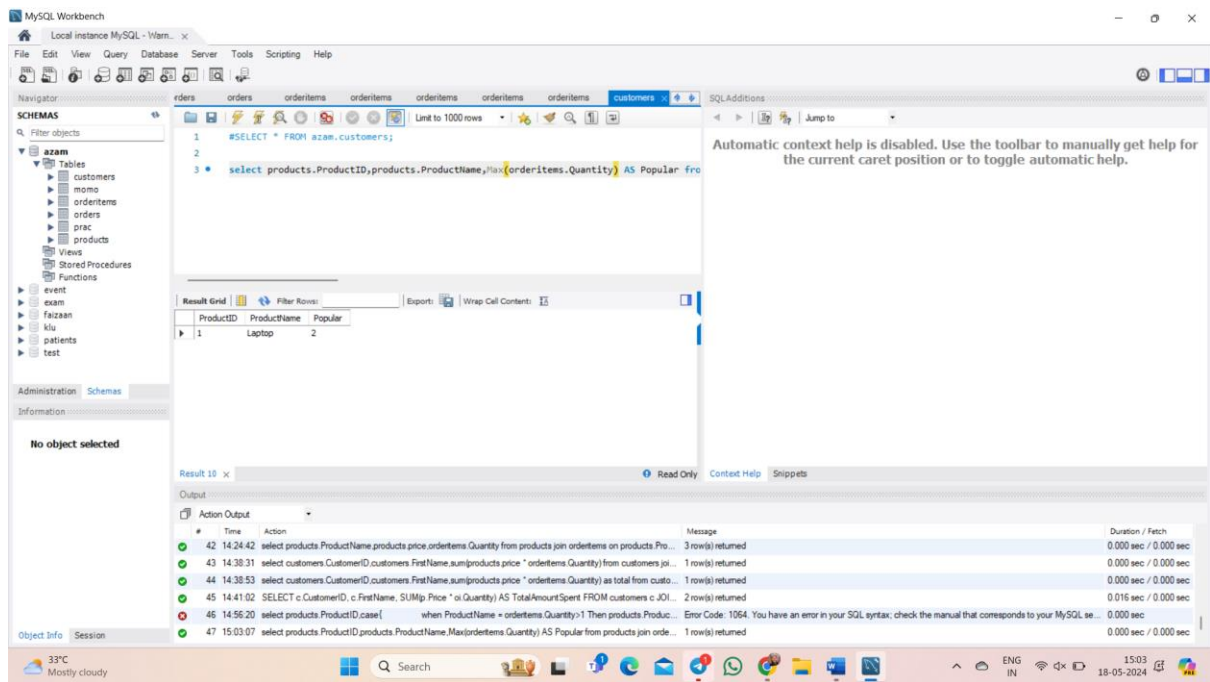


6) Find the most popular product (the one that has been ordered the most).

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:



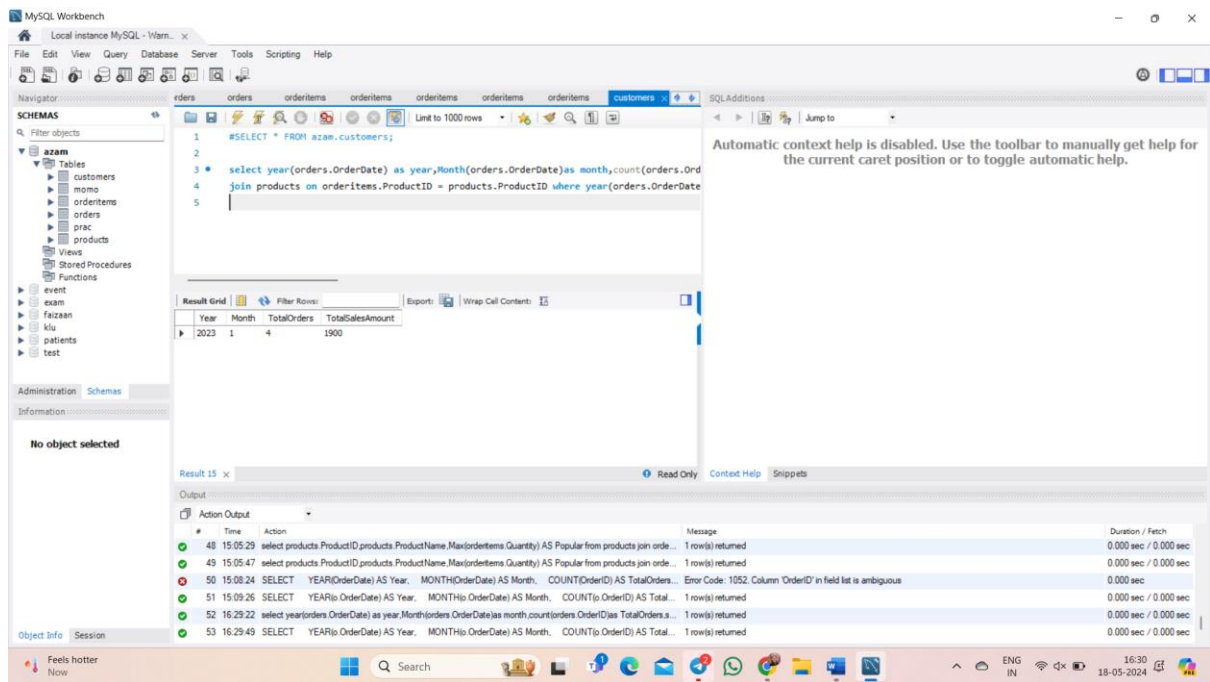
7) Get the total number of orders and the total sales amount for each month in 2023.

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... x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

▼ azam

- Tables
 - customers
 - momo
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- Views
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- Functions

▼ event

▼ exam

▼ faizaan

▼ klu

▼ patients

▼ test

Administration Schemas

Information

No object selected

SQL Editor

Limit to 1000 rows

```
1 #SELECT * FROM azam.customers;
2
3 select customers.FirstName,customers.LastName,sum(products.price * orderitems.Quantity
4 join orderitems on orders.OrderID = orderitems.OrderID
5 join products on orderitems.ProductID = products.ProductID having Morespent>1000;
6
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

FirstName	LastName	Morespent
John	Doe	1900

Output

Action Output

#	Time	Action	Message	Duration / Fetch
53	16:29:49	SELECT YEAR(OrderDate) AS Year, MONTH(OrderDate) AS Month, COUNT(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

Object Info Session

INR/USD +0.17%

Search

ENG IN

17:02 18-05-2024