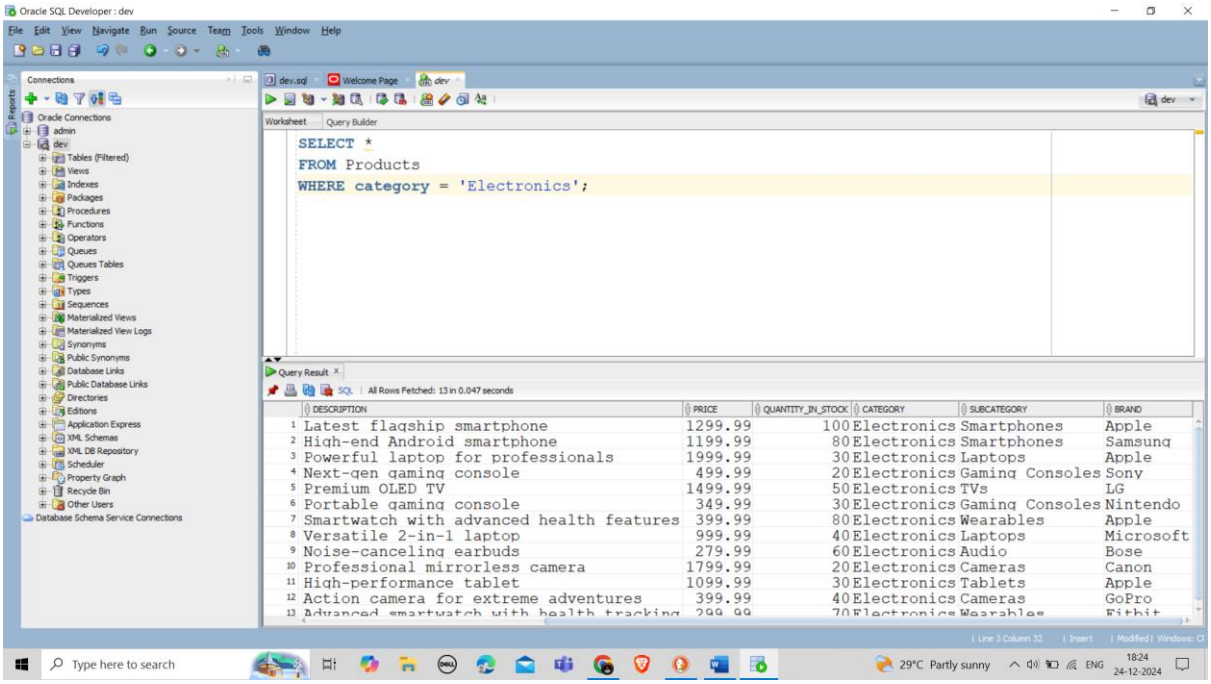
# ECOMMERCE STORE DATA REPORT

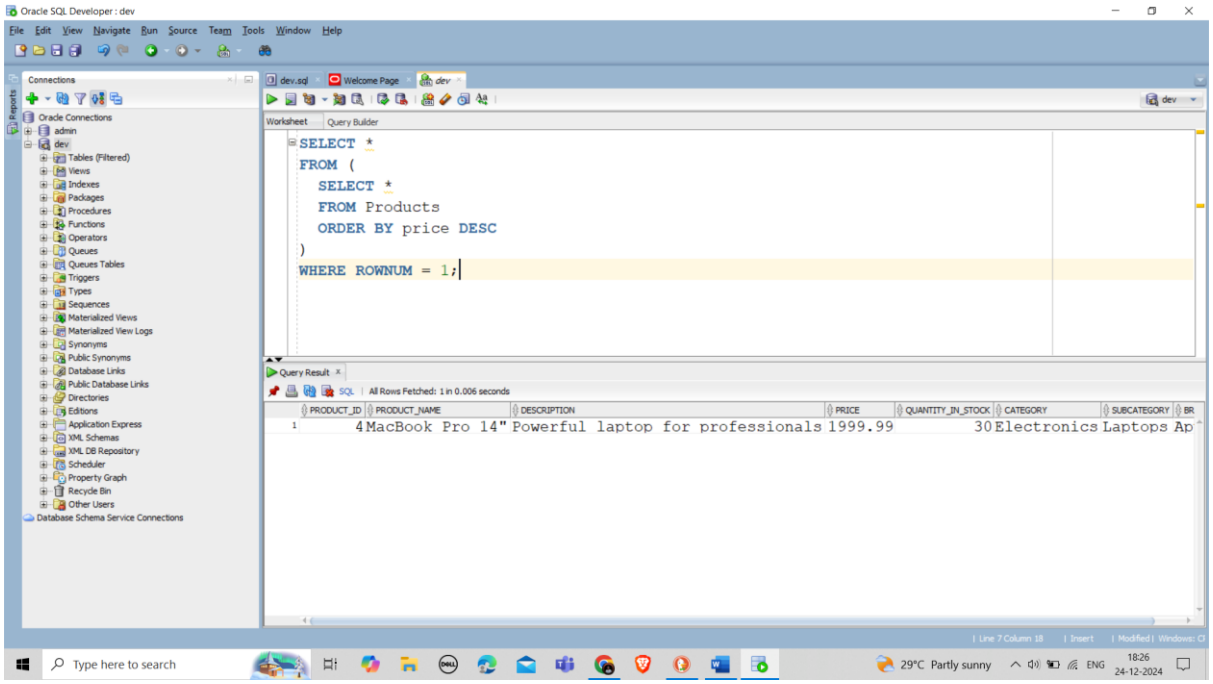
## 1. Find all products in a specific category:

```
SELECT *
FROM Products
WHERE category = 'Electronics';
```




## 2. Find the most expensive product:

```
SELECT *
FROM (
  SELECT *
  FROM Products
  ORDER BY price DESC
)
WHERE ROWNUM = 1;
```

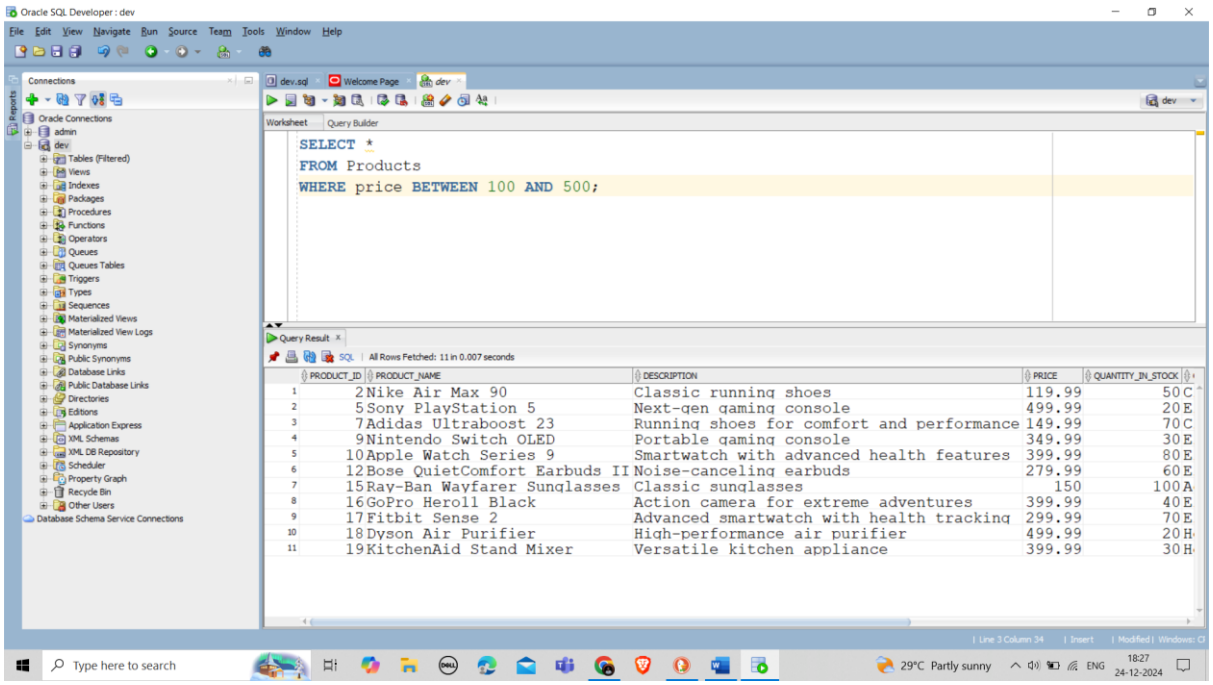



## 3. Find products with a price range:

SELECT *

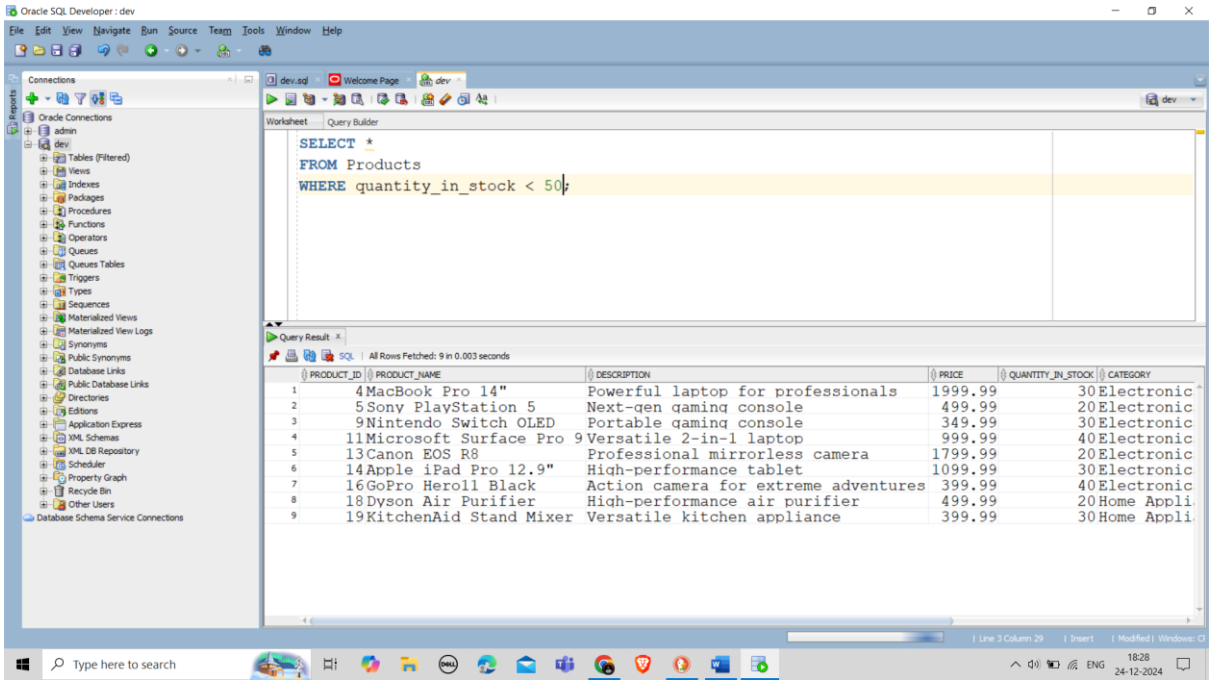
FROM Products

WHERE price BETWEEN 100 AND 500;



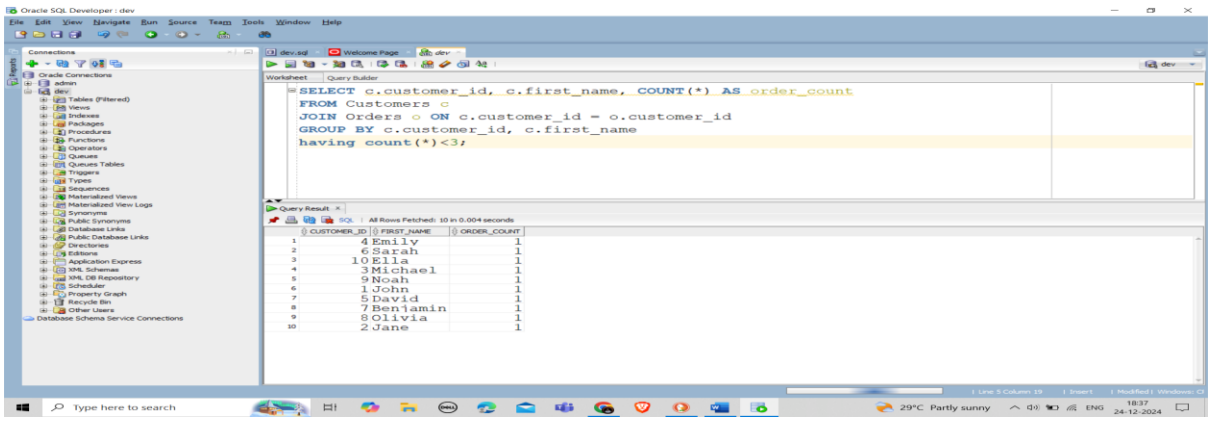

## 4. Find products with low stock:

```
SELECT *
FROM Products
WHERE quantity_in_stock < 50;
```



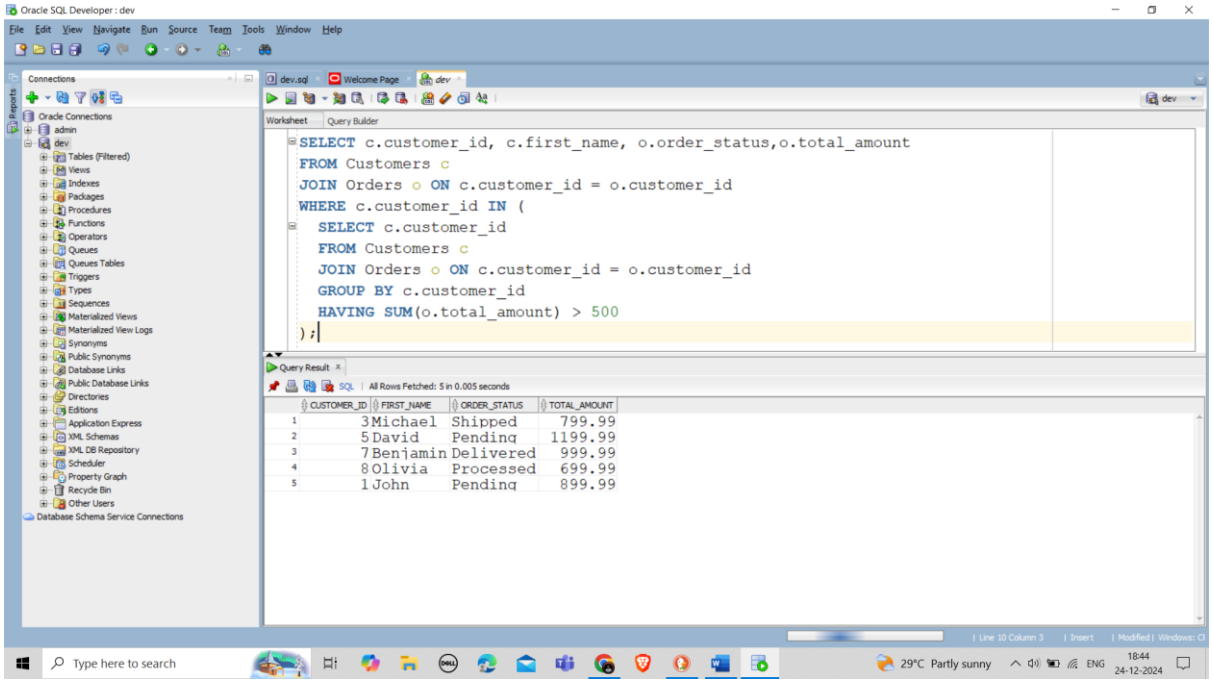

## 5.Find customers who have made more than a certain number of orders:

```
SELECT c.customer_id, c.first_name, COUNT(*) AS order_count
FROM Customers c
JOIN Orders o ON c.customer_id = o.customer_id
GROUP BY c.customer_id, c.first_name
having count(*)<3;
```



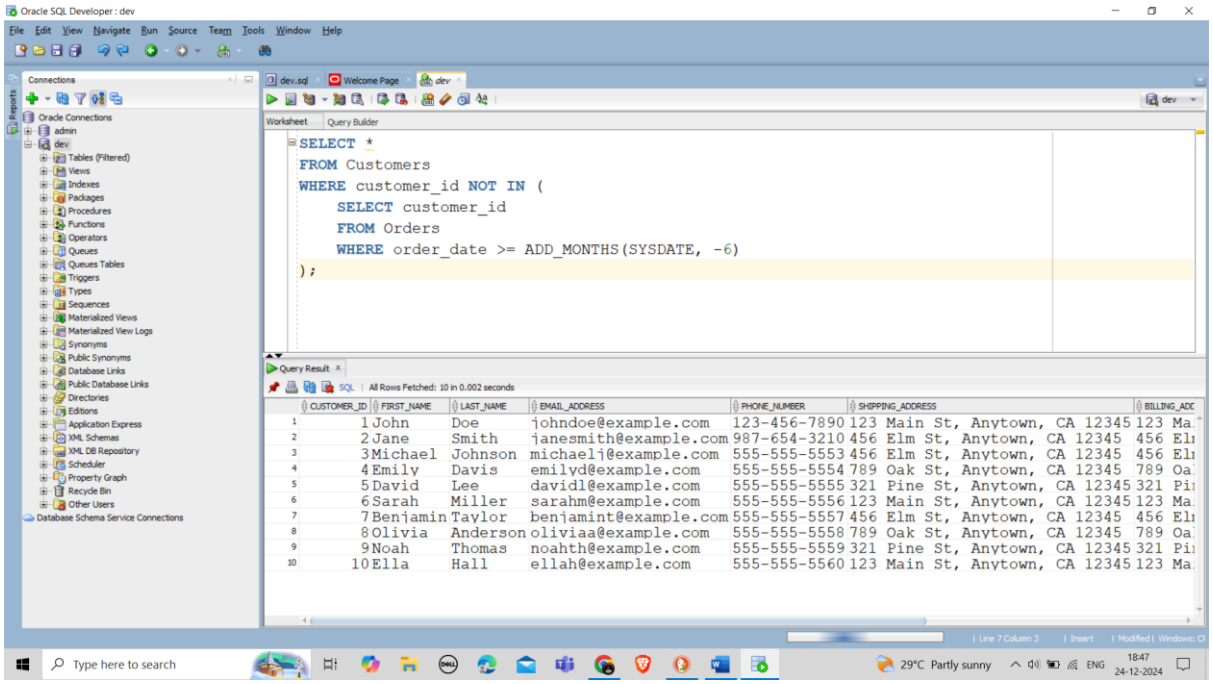

## 6.Find customers who have spent more than a certain amount:

```
SELECT c.customer_id, c.first_name, o.order_status,o.total_amount
FROM Customers c
JOIN Orders o ON c.customer_id = o.customer_id
WHERE c.customer_id IN (
  SELECT c.customer_id
  FROM Customers c
  JOIN Orders o ON c.customer_id = o.customer_id
  GROUP BY c.customer_id
  HAVING SUM(o.total_amount) > 500
);
```




## 7.Find customers who have not placed an order in the last 6 months:

```
SELECT *
FROM Customers
WHERE customer_id NOT IN (
    SELECT customer_id
    FROM Orders
    WHERE order_date >= ADD_MONTHS(SYSDATE, -6)
);
```

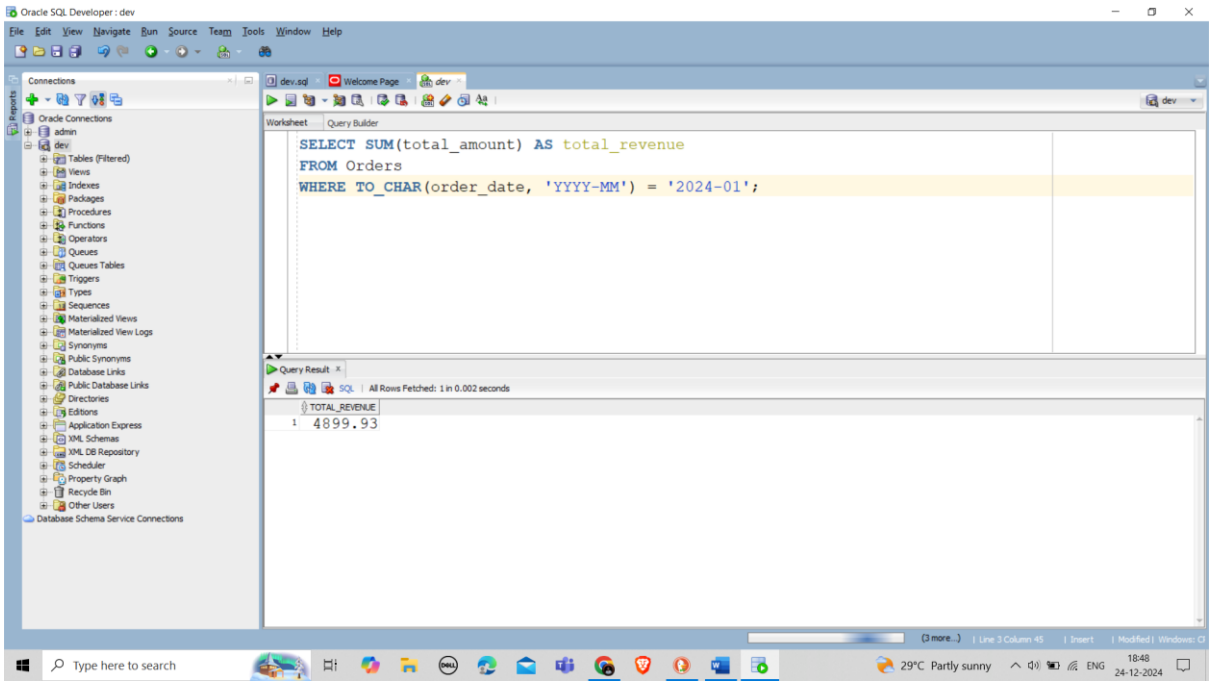



## 8.Find the total revenue for a specific month:

SELECT SUM(total_amount) AS total_revenue

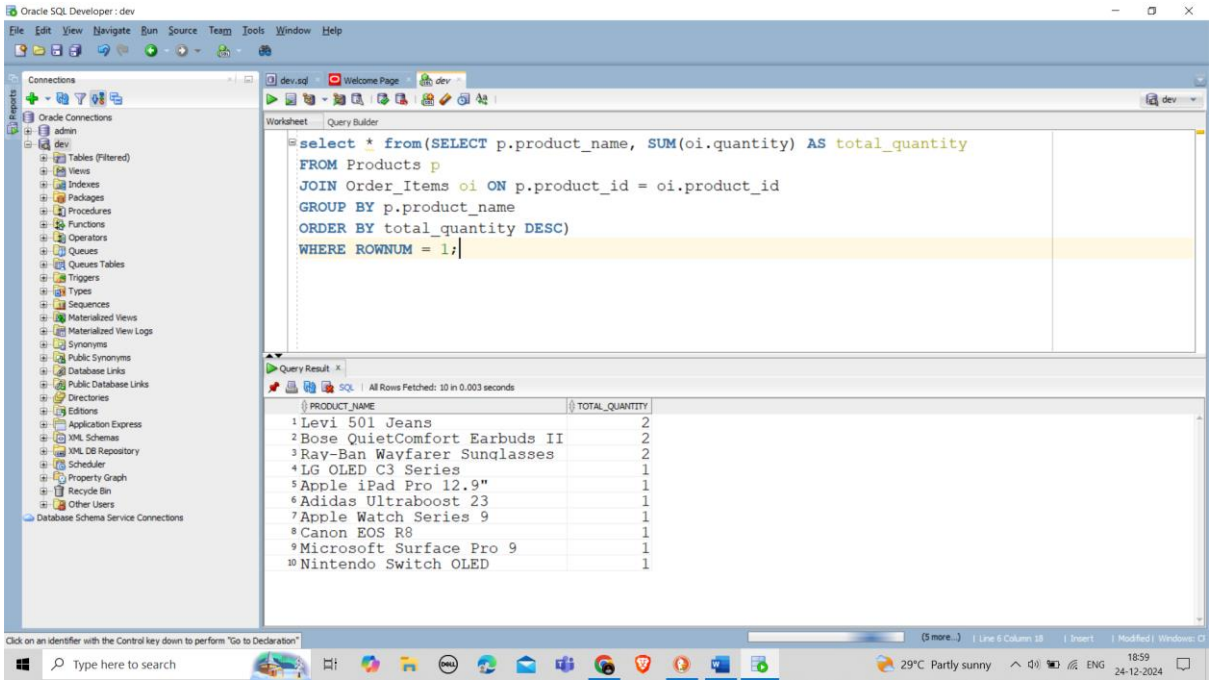
FROM Orders

WHERE TO_CHAR(order_date, 'YYYY-MM') = ' 2024-01;



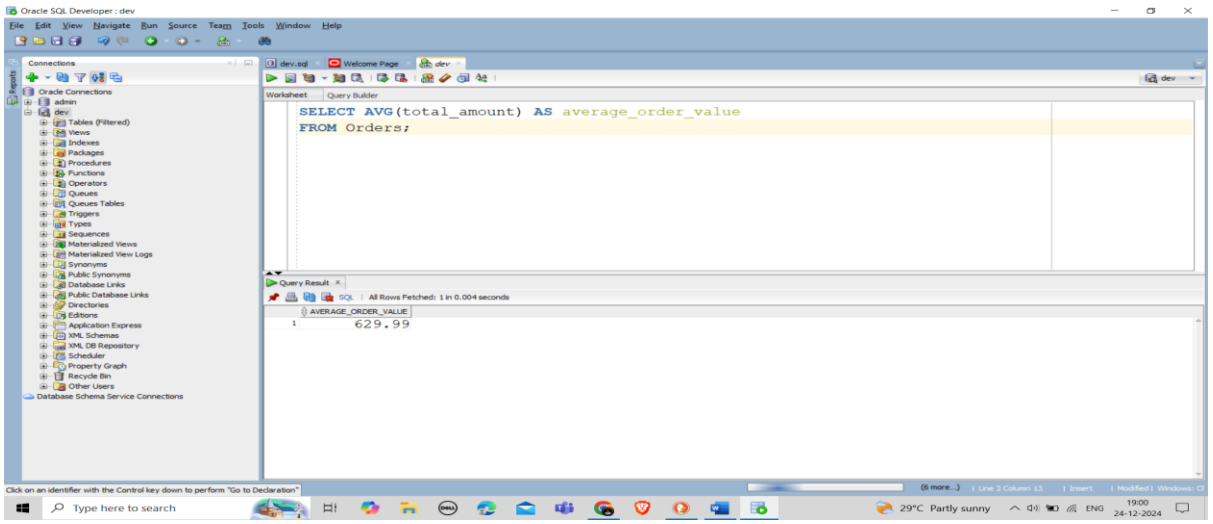
## 9.Find the most popular product:

```
select * from(SELECT p.product_name, SUM(oi.quantity) AS total_quantity
FROM Products p
JOIN Order_Items oi ON p.product_id = oi.product_id
GROUP BY p.product_name
ORDER BY total_quantity DESC)
WHERE ROWNUM = 1;
```



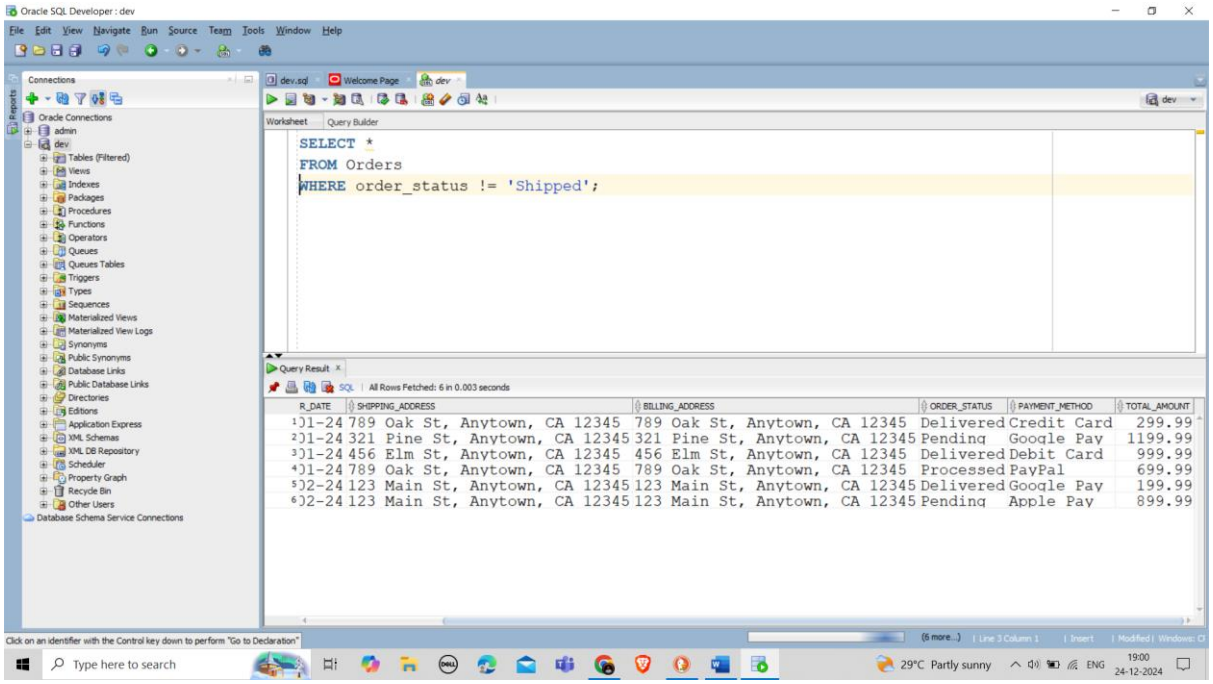

## 10.Find the average order value:

```
SELECT AVG(total_amount) AS average_order_value
FROM Orders;
```



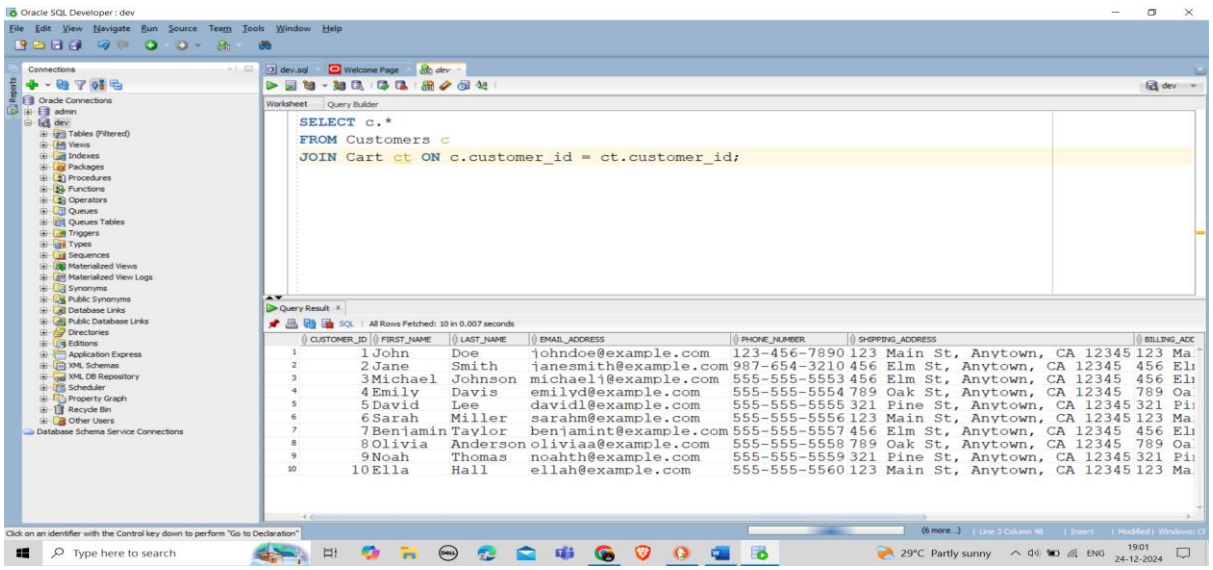
## 11.Find orders that have not been shipped yet:

```
SELECT *
FROM Orders
WHERE order_status != 'Shipped';
```



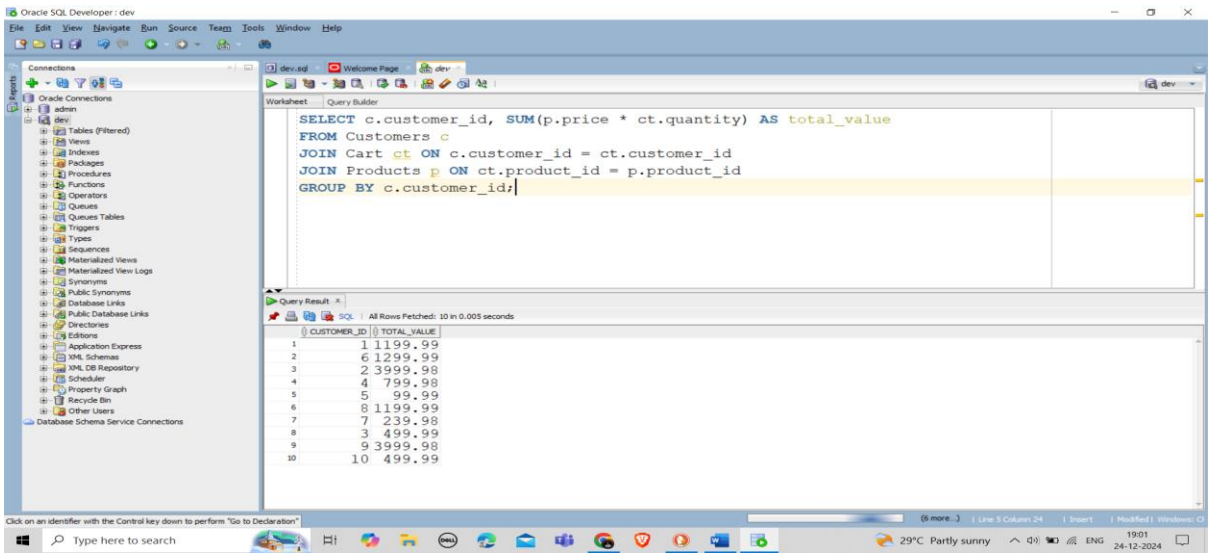

## 12.Find customers with items in their cart:

```
SELECT c.*
FROM Customers c
JOIN Cart ct ON c.customer_id = ct.customer_id;
```



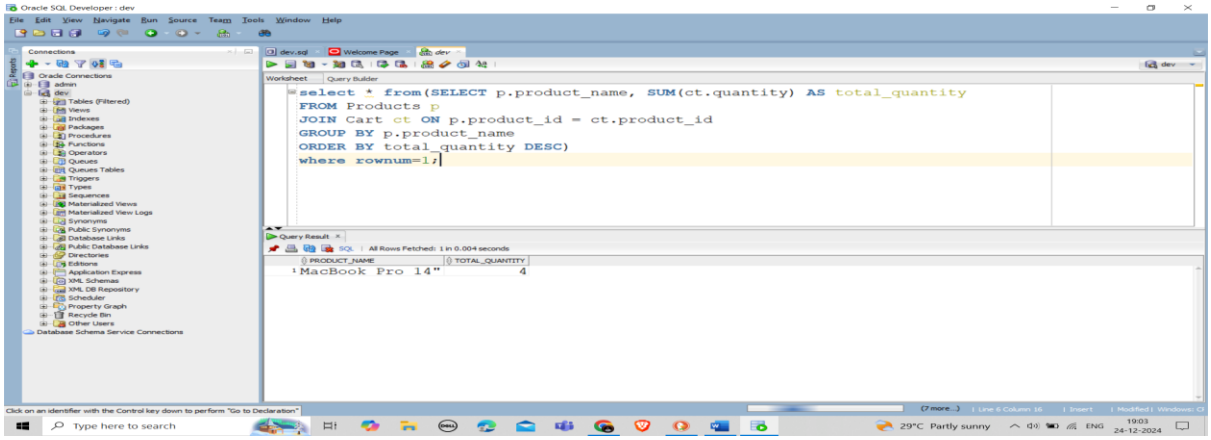
## 13.Find the total value of items in a customer's cart:

```
SELECT c.customer_id, SUM(p.price * ct.quantity) AS total_value
FROM Customers c
JOIN Cart ct ON c.customer_id = ct.customer_id
JOIN Products p ON ct.product_id = p.product_id
GROUP BY c.customer_id;
```




## 14.Find the most popular items in carts:

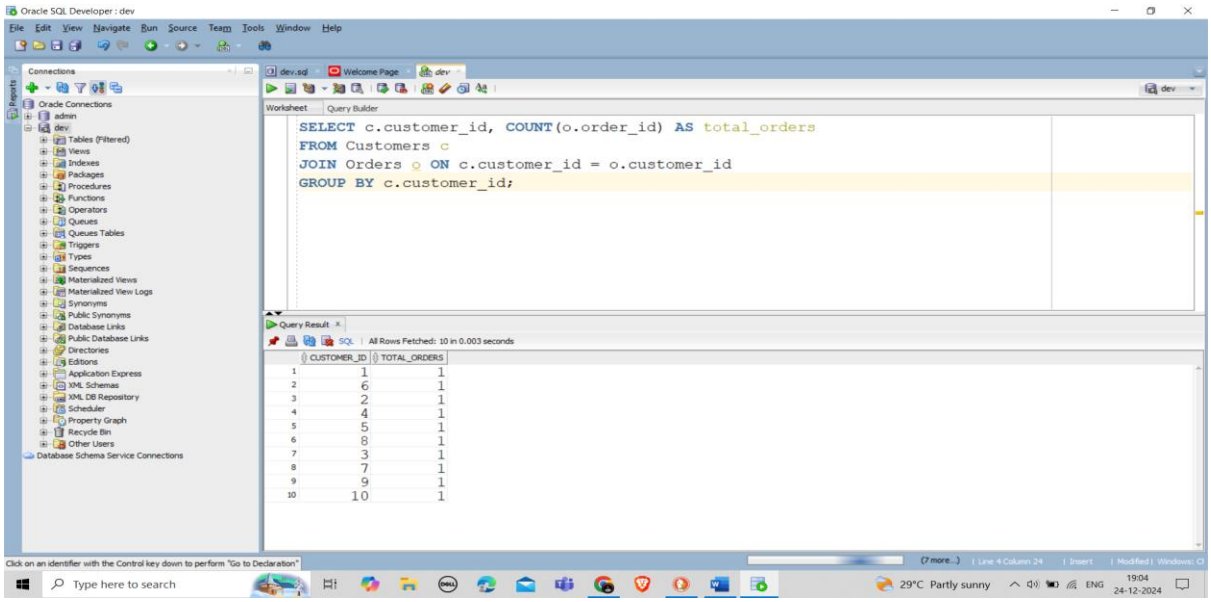
```
select * from(SELECT p.product_name, SUM(ct.quantity) AS total_quantity
FROM Products p
JOIN Cart ct ON p.product_id = ct.product_id
GROUP BY p.product_name
ORDER BY total_quantity DESC)
where rownum=1;
```




# JOINS

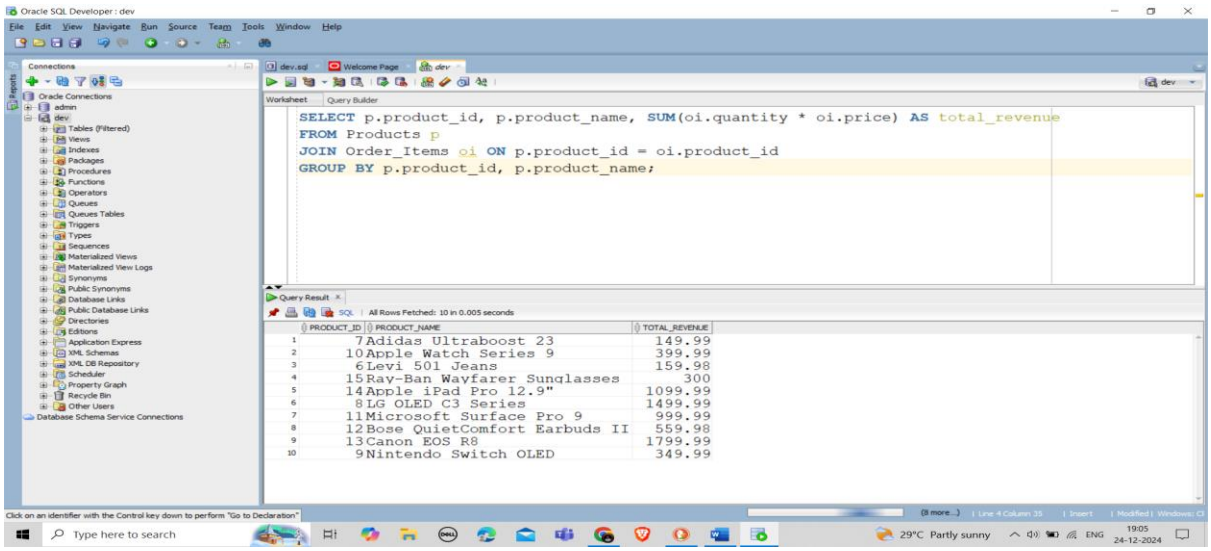
## 1. Find the total number of orders placed by each customer.

```
SELECT c.customer_id, COUNT(o.order_id) AS total_orders
FROM Customers c
JOIN Orders o ON c.customer_id = o.customer_id
GROUP BY c.customer_id;
```



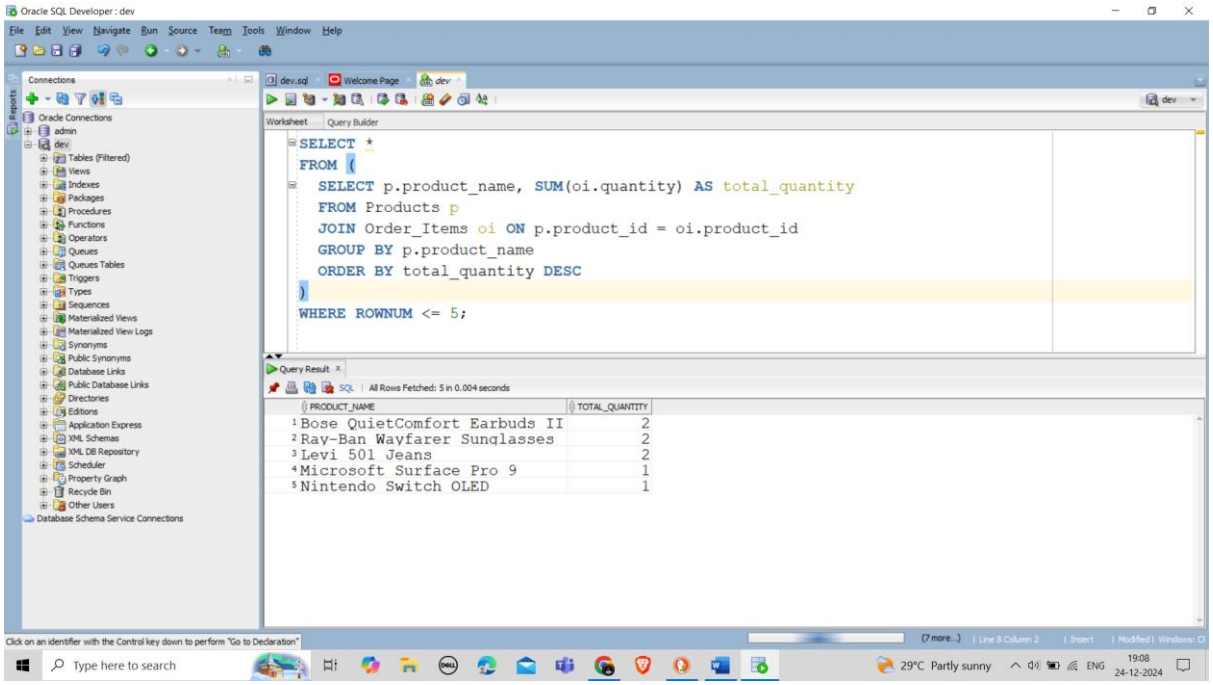

## 2. Find the total revenue generated by each product.

```
SELECT p.product_id, p.product_name, SUM(oi.quantity * oi.price) AS total_revenue
FROM Products p
JOIN Order_Items oi ON p.product_id = oi.product_id
GROUP BY p.product_id, p.product_name;
```




## 3. List the top 5 best-selling products.

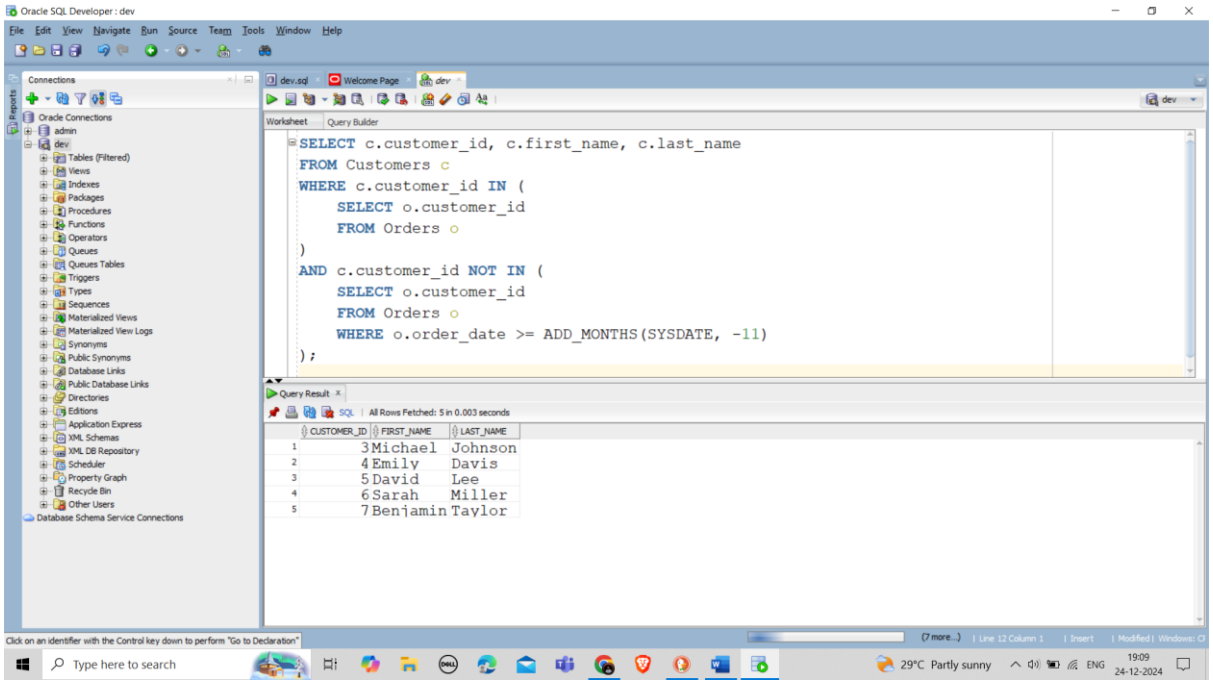
```
SELECT *
FROM (
  SELECT p.product_name, SUM(oi.quantity) AS total_quantity
  FROM Products p
  JOIN Order_Items oi ON p.product_id = oi.product_id
  GROUP BY p.product_name
  ORDER BY total_quantity DESC
)
WHERE ROWNUM <= 5;
```




## 4. Find customers who have placed orders but have not made any purchases in the last 11 months.

```
SELECT c.customer_id, c.first_name, c.last_name
FROM Customers c
WHERE c.customer_id IN (
    SELECT o.customer_id
    FROM Orders o
)
AND c.customer_id NOT IN (
    SELECT o.customer_id
    FROM Orders o
```

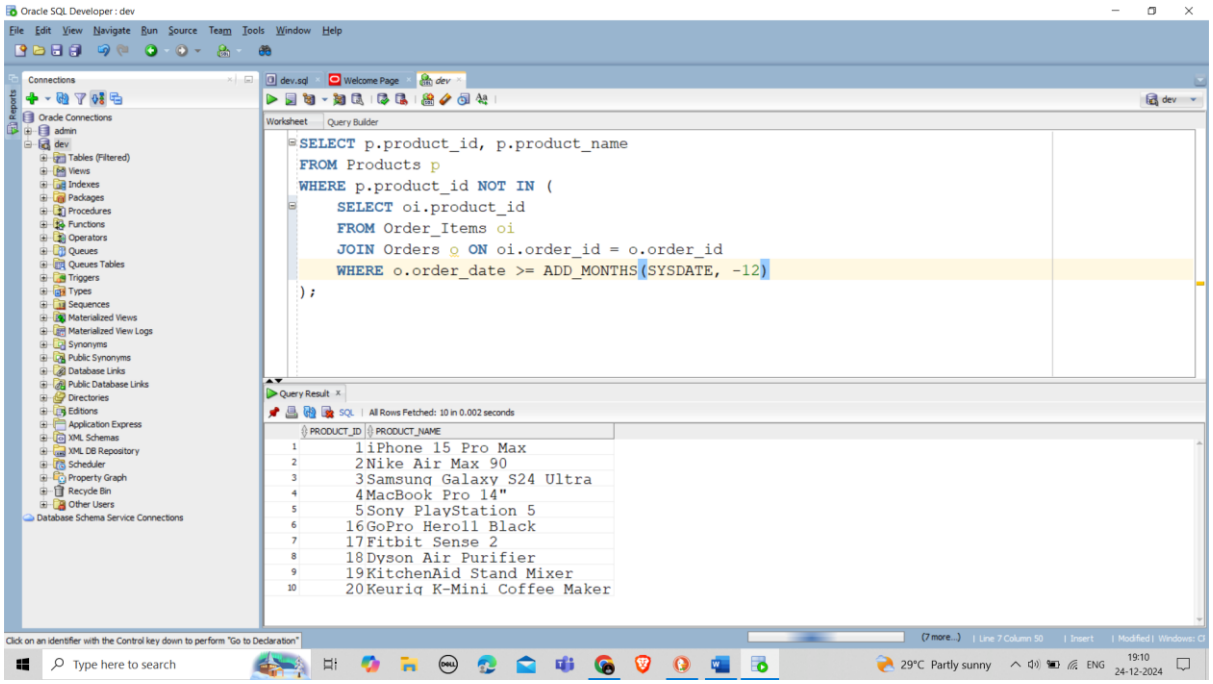
```
    WHERE o.order_date >= ADD_MONTHS(SYSDATE, -11)
);
```




## 5. List all products that have not been ordered in the last 12 months.

SQL

```
SELECT p.product_id, p.product_name
FROM Products p
WHERE p.product_id NOT IN (
    SELECT oi.product_id
    FROM Order_Items oi
    JOIN Orders o ON oi.order_id = o.order_id
    WHERE o.order_date >= ADD_MONTHS(SYSDATE, -12)
);
```


Oracle SQL Developer : dev
File Edit View Navigate Run Source Team Tools Window Help
Connections
Oracle Connections
admin
dev
Tables (Filtered)
Views
Indexes
Packages
Procedures
Functions
Operators
Queues
Queues Tables
Triggers
Types
Sequences
Materialized Views
Materialized View Logs
Synonyms
Public Synonyms
Database Links
Public Database Links
Directories
Editions
Application Express
XML Schemas
XML DB Repository
Scheduler
Property Graph
Recycle Bin
Other Users
Database Schema Service Connections
dev.sql
Welcome Page
dev
Worksheet
Query Builder
SELECT p.product_id, p.product_name
FROM Products p
WHERE p.product_id NOT IN (
SELECT oi.product_id
FROM Order_Items oi
JOIN Orders o ON oi.order_id = o.order_id
WHERE o.order_date >= ADD_MONTHS(SYSDATE, -12)
);
Query Result
All Rows Fetched: 10 in 0.002 seconds
PRODUCT_ID PRODUCT_NAME
1 1 iPhone 15 Pro Max
2 2 Nike Air Max 90
3 3 Samsung Galaxy S24 Ultra
4 4 MacBook Pro 14"
5 5 Sony PlayStation 5
6 16 GoPro Hero11 Black
7 17 Fitbit Sense 2
8 18 Dyson Air Purifier
9 19 KitchenAid Stand Mixer
10 20 Keurig K-Mini Coffee Maker
Click on an identifier with the Control key down to perform "Go to Declaration"
(7 more...) | Line 7 Column 50 | Insert | Modified | Windows: C
Type here to search
29°C Partly sunny
ENG
19:10
24-12-2024