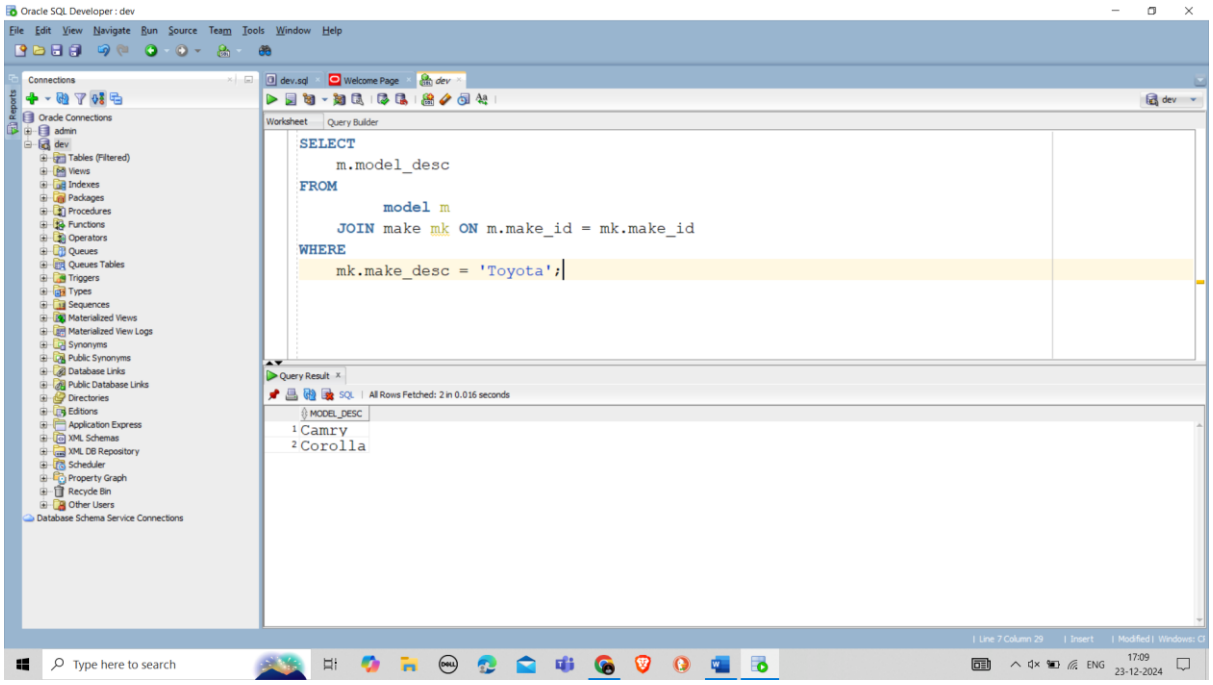
VEHICLE INSURANCE REPORT

Data Retrieval & Joins

1.Write a SQL query to retrieve all models associated with a given make (e.g., "Toyota").

```
SELECT
    m.model_desc
FROM
        model m
    JOIN make mk ON m.make_id = mk.make_id
WHERE
    mk.make_desc = 'Toyota';
```

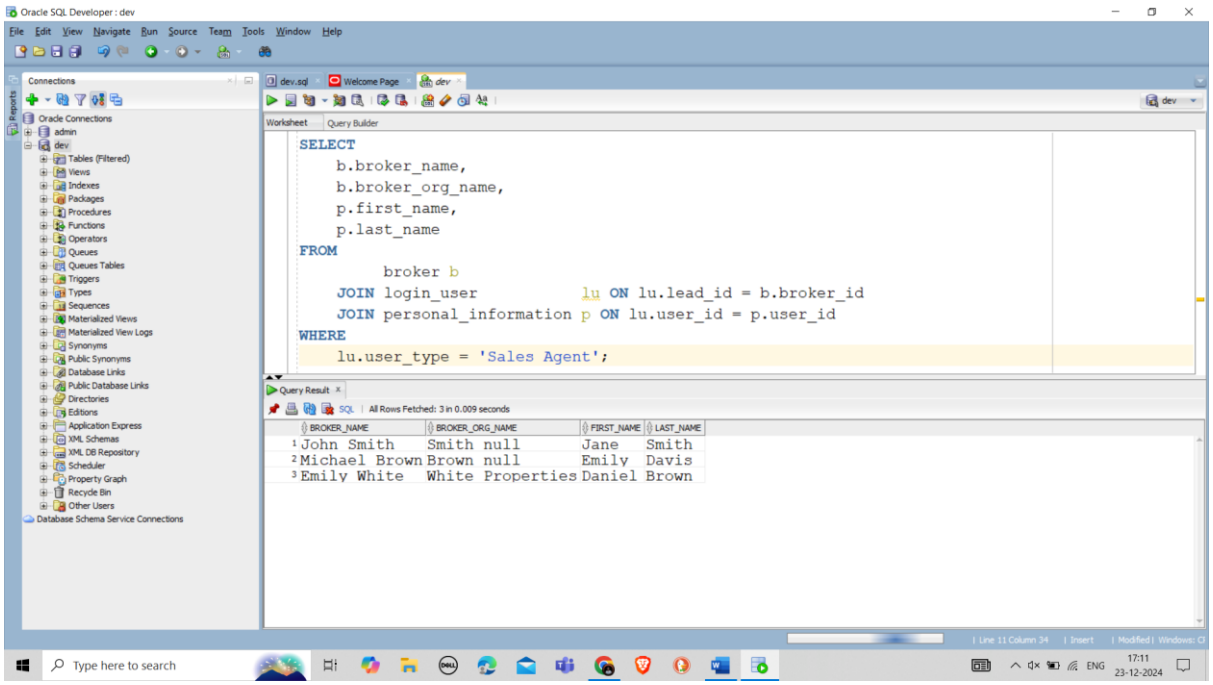


2.List all brokers and their associated sales agents:

Use a JOIN clause to retrieve the Broker_name and Broker_org_name from the Broker table and the First_name, Last_name of associated sales agents from the Personal_Information and Login_User tables.

```
SELECT
    b.broker_name,
    b.broker_org_name,
```

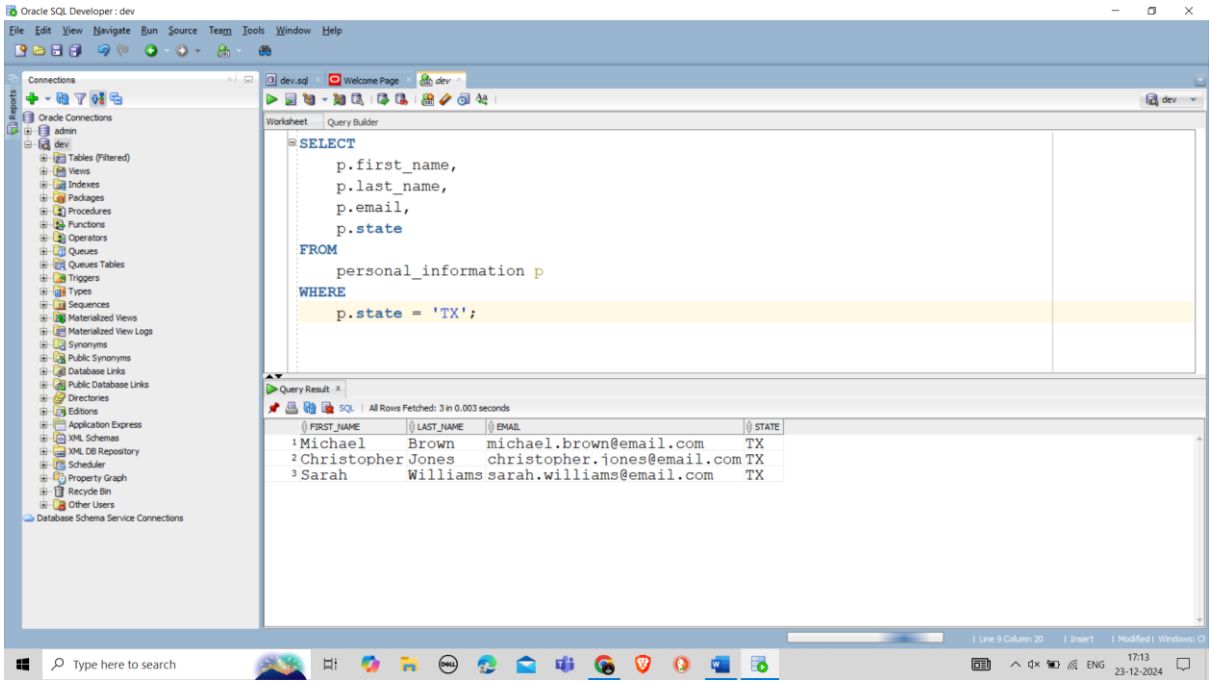
```
    p.first_name,
    p.last_name
FROM
        broker b
    JOIN login_user          lu ON lu.lead_id = b.broker_id
    JOIN personal_information p ON lu.user_id = p.user_id
WHERE
    lu.user_type = 'Sales Agent';
```



3.Find all users in a specific state:

Retrieve user information (e.g., First_name, Last_name, email,state) from Personal_Information for users residing in a particular state.

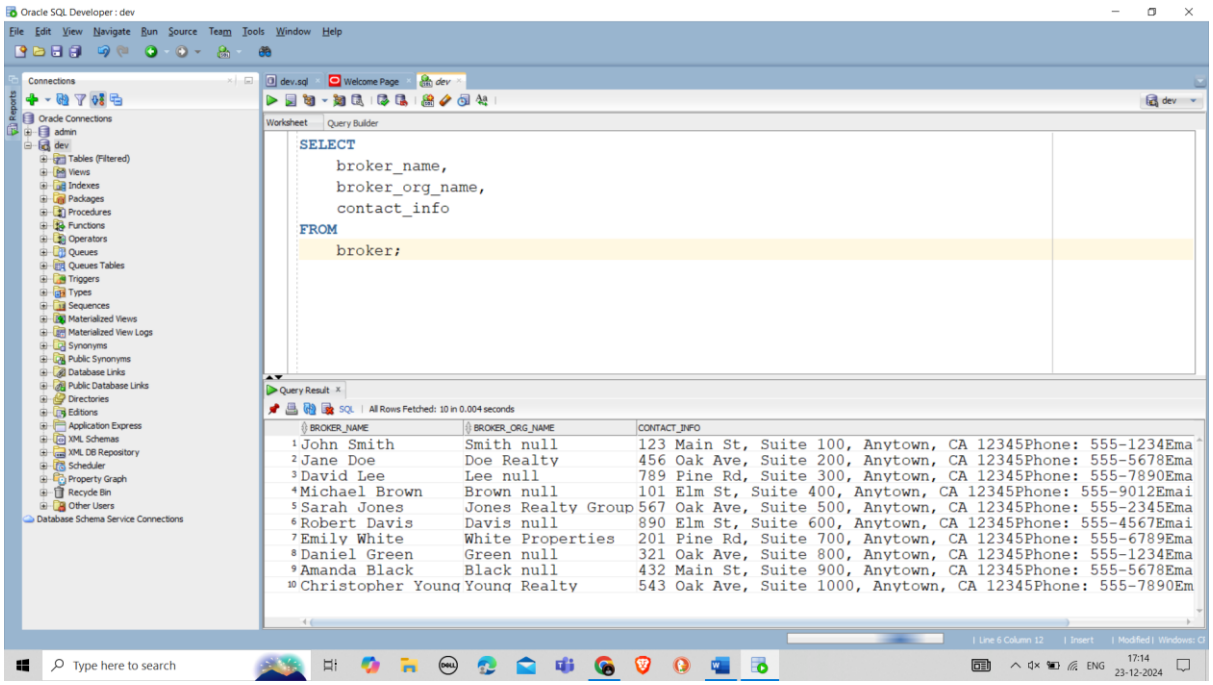
```
SELECT
    p.first_name,
    p.last_name,
    p.email,
    p.state
FROM
    personal_information p
WHERE
    p.state = 'TX';
```



4.Get contact information for all brokers:

Extract the Broker_name, Broker_org_name, and contact_info from the Broker table.

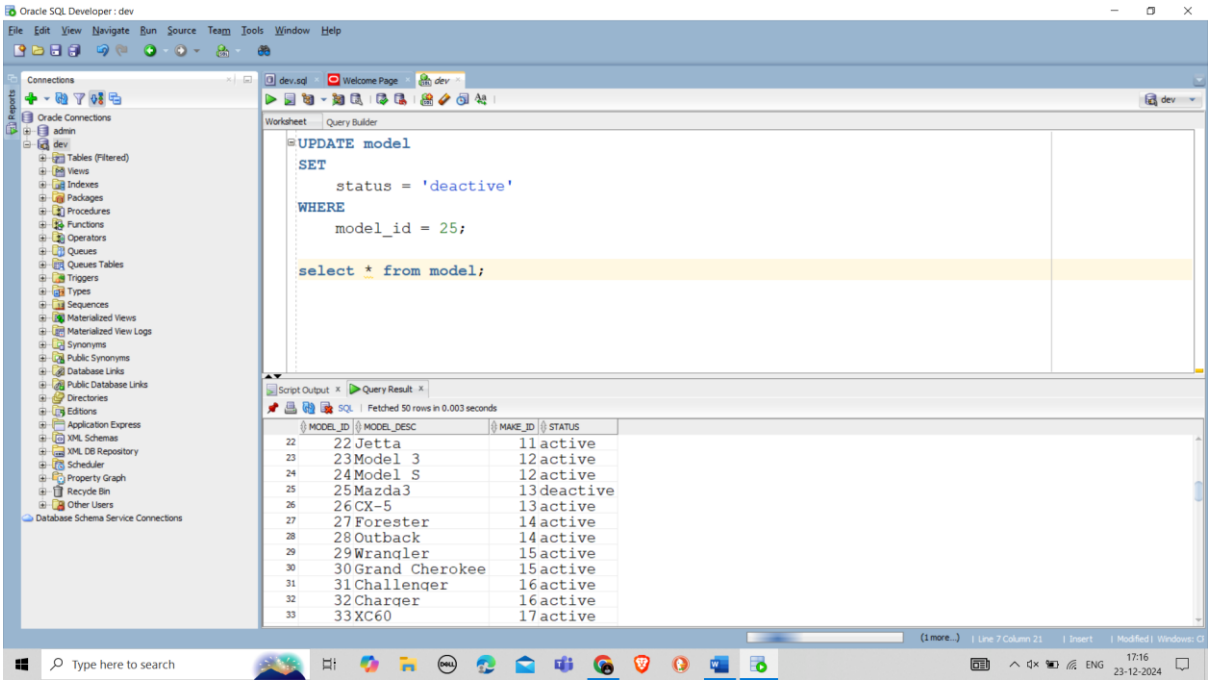
```
SELECT
    broker_name,
    broker_org_name,
    contact_info
FROM
    broker;
```



Data Updates & Modifications

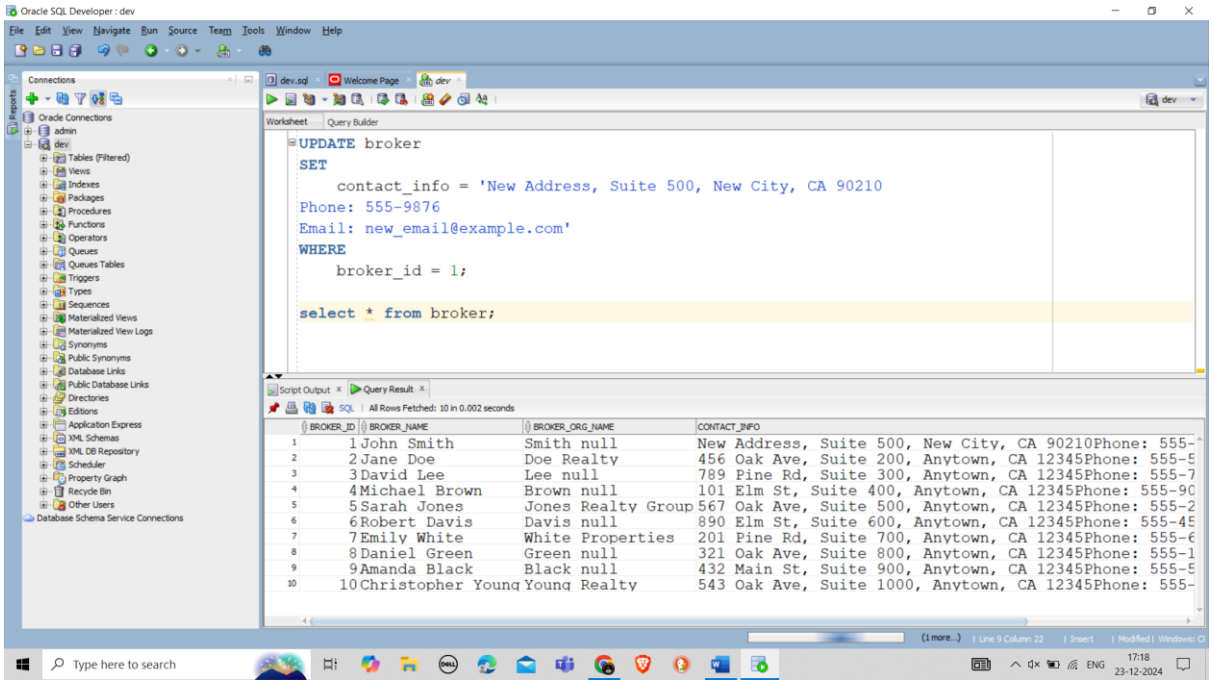
1.Update the status of a model to 'deactive'.

```
UPDATE model
SET
    status = 'deactive'
WHERE
    model_id = 25;
```



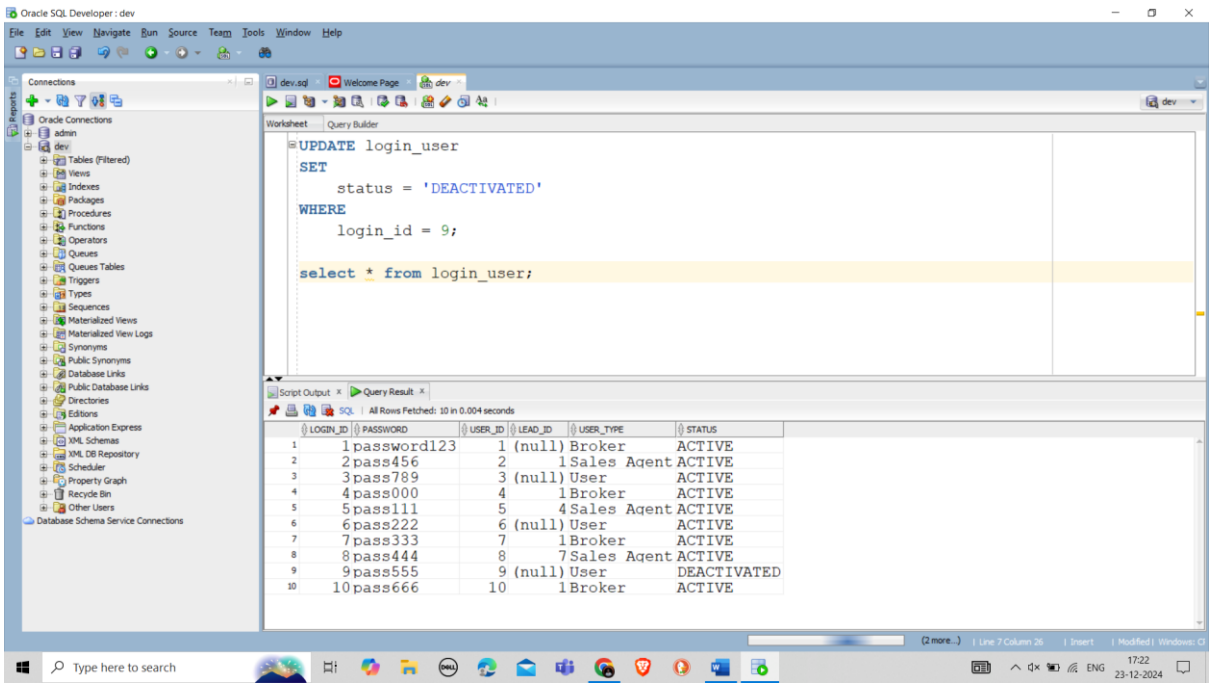
2.Change the contact information for a specific broker.

```
UPDATE broker
SET
    contact_info = 'New Address, Suite 500, New City, CA 90210
Phone: 555-9876
Email: new_email@example.com'
WHERE
    broker_id = 1;
```



3.Deactivate the login of a user.

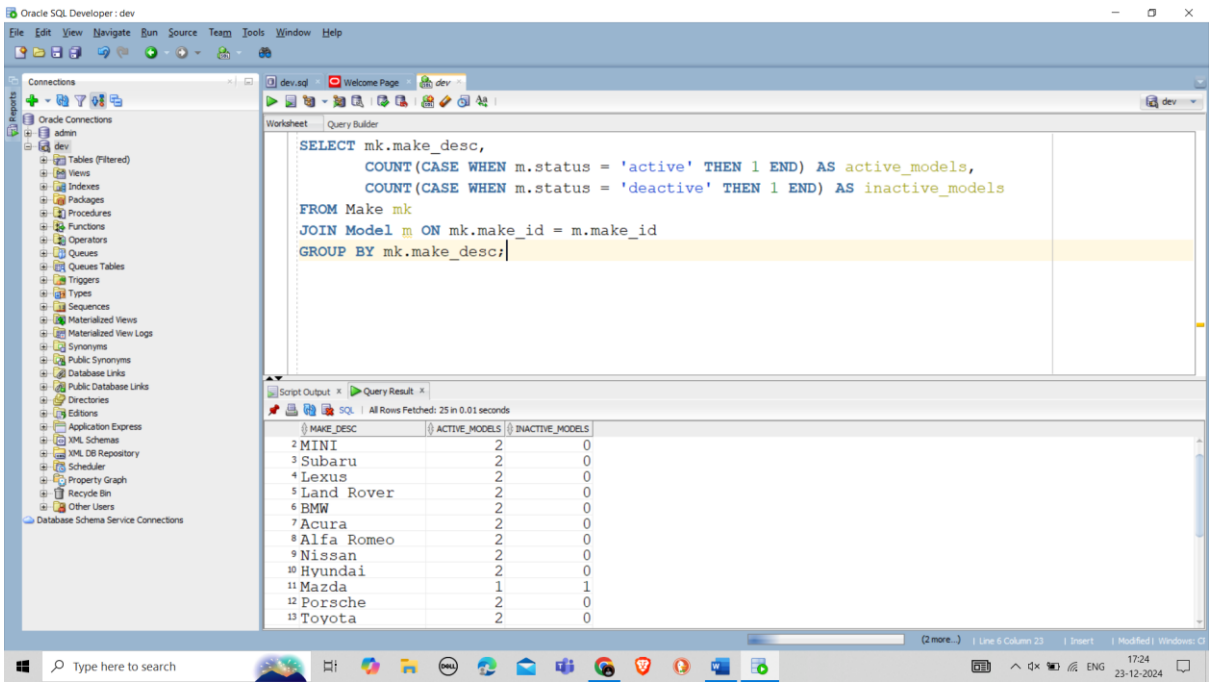
```
UPDATE login_user
SET
    status = 'DEACTIVATED'
WHERE
    login_id = 9;
```



Data Analysis & Reporting

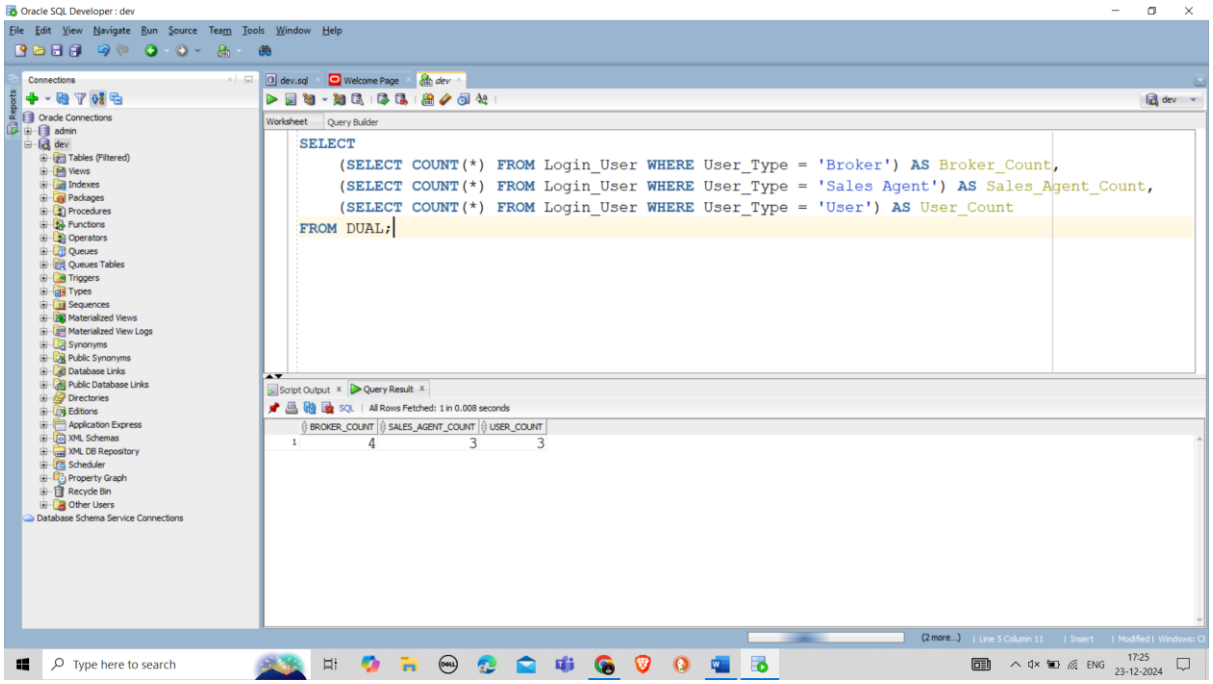
1.Count the number of active and inactive models for each make.

```
SELECT mk.make_desc,
    COUNT(CASE WHEN m.status = 'active' THEN 1 END) AS active_models,
    COUNT(CASE WHEN m.status = 'deactive' THEN 1 END) AS inactive_models
FROM Make mk
JOIN Model m ON mk.make_id = m.make_id
GROUP BY mk.make_desc;
```



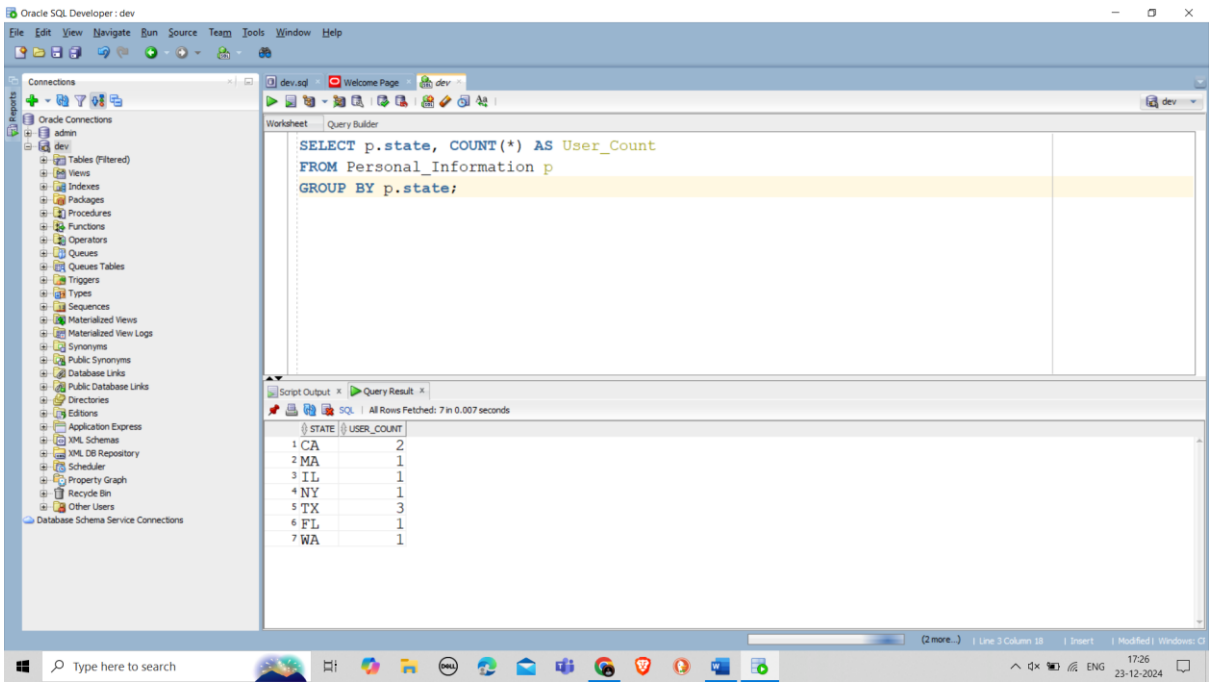
2.Determine the total number of brokers, sales agents, and users.

```
SELECT
    (SELECT COUNT(*) FROM Login_User WHERE User_Type = 'Broker') AS Broker_Count,
    (SELECT COUNT(*) FROM Login_User WHERE User_Type = 'Sales Agent') AS
Sales_Agent_Count,
    (SELECT COUNT(*) FROM Login_User WHERE User_Type = 'User') AS User_Count
FROM DUAL;
```



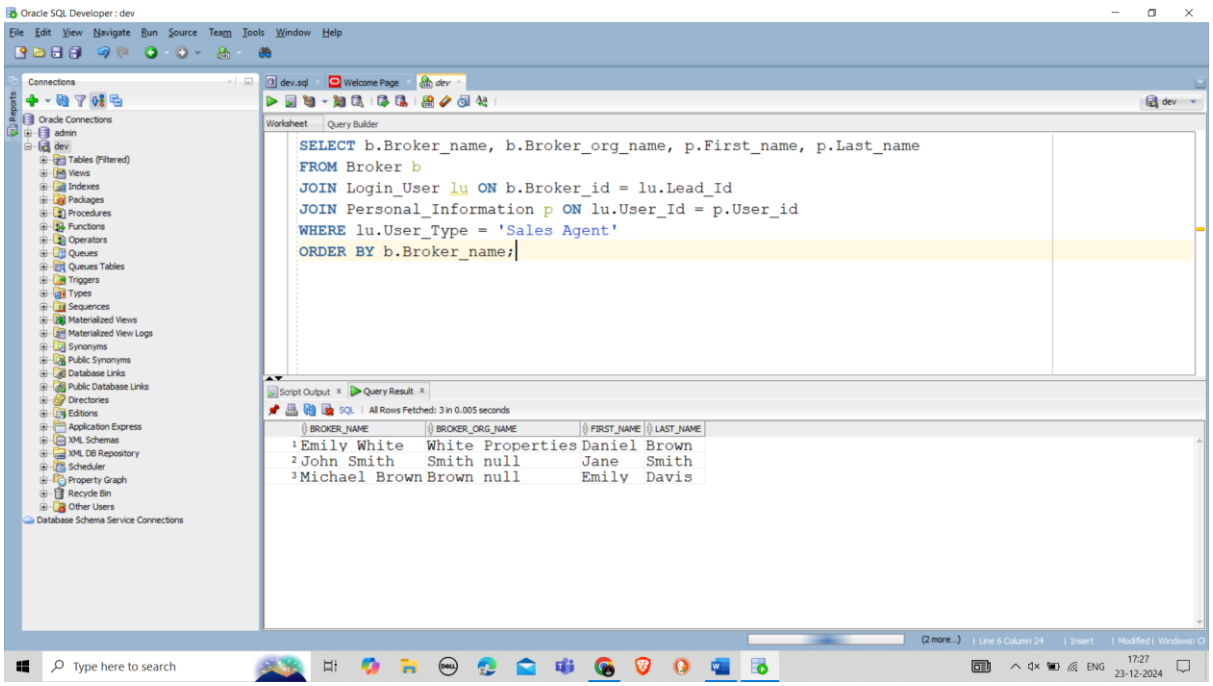
3.Find the number of users in each city.

```
SELECT p.state, COUNT(*) AS User_Count
FROM Personal_Information p
GROUP BY p.state;
```



4.Generate a report of all brokers and their associated sales agents.

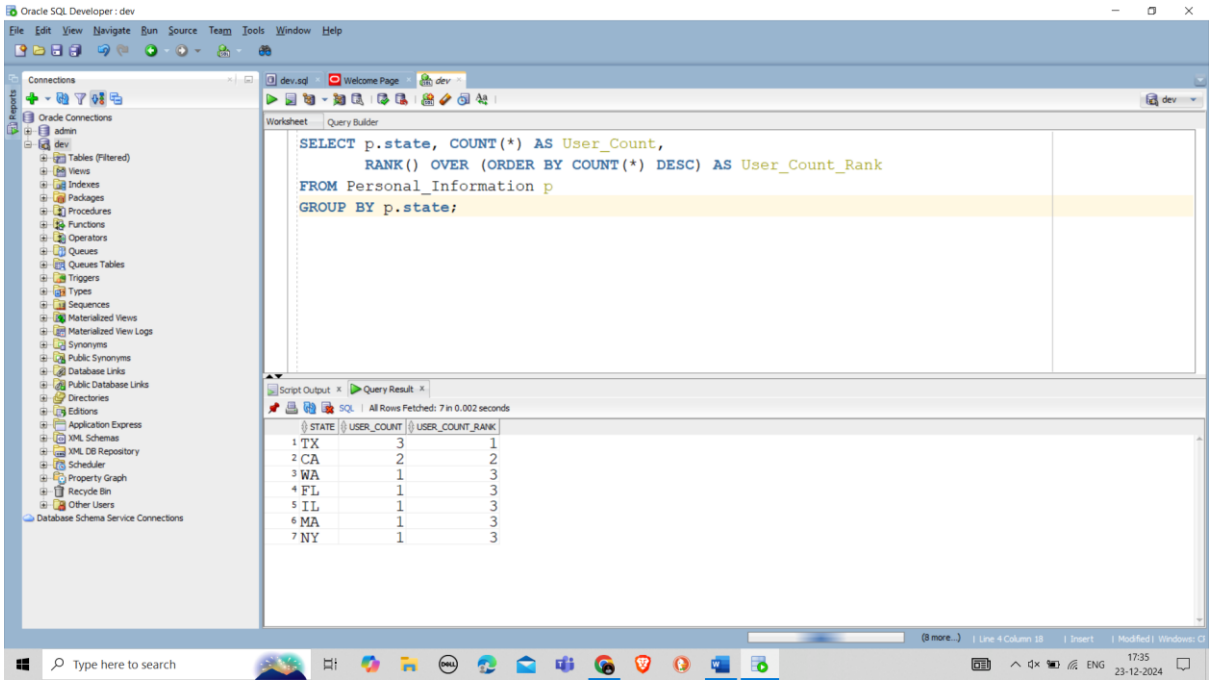
```
SELECT b.Broker_name, b.Broker_org_name, p.First_name, p.Last_name
FROM Broker b
JOIN Login_User lu ON b.Broker_id = lu.Lead_Id
JOIN Personal_Information p ON lu.User_Id = p.User_id
WHERE lu.User_Type = 'Sales Agent'
ORDER BY b.Broker_name;
```



Advanced Queries

1.Retrieve the top 5 states with the highest number of users.

```
SELECT p.state, COUNT(*) AS User_Count,
    RANK() OVER (ORDER BY COUNT(*) DESC) AS User_Count_Rank
FROM Personal_Information p
GROUP BY p.state;
```


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.state, COUNT(*) AS User_Count,
RANK() OVER (ORDER BY COUNT(*) DESC) AS User_Count_Rank
FROM Personal_Information p
GROUP BY p.state;
Script Output
Query Result
All Rows Fetched: 7 in 0.002 seconds
STATE USER_COUNT USER_COUNT_RANK
1 TX 3 1
2 CA 2 2
3 WA 1 3
4 FL 1 3
5 IL 1 3
6 MA 1 3
7 NY 1 3
Type here to search
ENG
17:35
23-12-2024