Project Title	Real Estate Price Predictor

1. documentation
2. ERD
3. Relational schema
4. Sample Data in tables
5. Queries & output

.6Views

7. Interface

Documentation

Scenario

Real Estate (House Price Predictor)

New users register on the Real Estate platform, providing their username, password, email, and specifying their user type (Buyer/Seller/Agent).

Users log in to the system using their credentials, initiating a session. User authentication is mandatory for all subsequent actions.

Users, predominantly buyers, perform property searches based on criteria such as location, budget, and features. The system records each search in the user's search history.

Users explore property details, including features, listing prices, and historical transactions. The system displays accurate and up-to-date information.

Sellers add properties to the system for selling, providing details such as address, area, bedrooms, bathrooms, features, and the desired selling price. Each property is associated with the respective seller.

Users, both buyers and sellers, initiate predictions for selected properties to estimate future house prices. The system uses a Linear Regression model to provide accurate predictions.

When buyers decide to purchase a property, they initiate a transaction. The system records the transaction details, including the property, buyer, seller, transaction date, and price.

Users can review their search history to track previously explored properties. The system links each entry in the search history to the corresponding user and property.

Sellers mark their properties as sold when transactions are completed. The system records the selling details, including the seller, property, selling price, and date.

Users log out of the system, ending their session. The system records the logout time in the user session history.

The system manages user sessions, allowing users to have multiple sessions and keeping track of login and logout times.

Each property is associated with features and types. Features, such as "Swimming Pool" or "Garden," are linked to properties, providing additional information to users. Properties also belong to specific types, such as "Apartment" or "House."

This scenario outlines a typical user journey on the Real Estate platform, incorporating actions like property search, selling, prediction, and transaction. The system's entities, attributes, and relationships ensure accurate and transparent information for users, contributing to a reliable real estate experience.

Real Estate (House Price Predictor) SQL Database Documentation

1. Introduction

The Real Estate (House Price Predictor) SQL Database is designed to manage and organize data related to properties, users, transactions, predictions, and other entities within the context of a real estate system. The database supports functionalities such as property search, prediction of house prices, user transactions, and more.

2. Entity-Relationship Diagram (ERD(

User: Represents registered users of the system**.**

Property: Contains information about individual properties listed in the system.

Transaction: Records transactions between buyers and sellers.

Prediction: Stores predicted prices for properties.

SearchHistory: Keeps track of users' property search history.

SellingProperty: Records properties that have been sold.

UserSession: Manages user login and logout sessions.

PropertyFeature: Stores various features associated with properties.

PropertyType: Defines different types of properties.

.3**Tables and Attributes**

3.1**User(**UserID (PK),Username,Password,Email,UserType)

3.2**Property**(PropertyID (PK),Address.Area,Bedrooms,Bathroor)

3.3**Transaction (**TransactionID (PK),PropertyID (FK),BuyerID (FK),SellerID (FK)

3.4**Prediction (**PredictionI (PK),PropertyID(F K),PredictedPrice PredictionDate)

3.5 **SearchHistory(**SearchID (PK) ,UserID (FK),PropertyID (FK) SearchDate)

3.6**SellingProperty(**SellingID (PK),UserID (FK),PropertyID (FK), SellingPrice,SellingDate)

3.7**UserSession (**SessionID (PK),UserID (FK),LoginTime,LogoutTime)

3.8**PropertyFeature(**FeatureID (PK),FeatureName)

3.9 **PropertyType Table(**TypeID (PK),TypeName)

3.10 **PropertyPropertyFeature (**PropertyID (FK),FeatureID FK())

3.11**PropertyPropertyType** (PropertyID (FK),TypeID (FK))

4. Relationships

- User-Property (1:N): One user can own many properties.
- User-Transaction (1:N): One user can be involved in many transactions.
- User-SearchHistory (1:N): One user can have many search history entries.
- User-SellingProperty (1:N): One user can sell many properties.

- User-UserSession (1:N): One user can have many sessions.
- Property-Transaction (1:N): One property can be involved in many transactions.
- Property-Prediction (1:N): One property can have many predictions.
- SearchHistory-Property (1:1): Each search history entry is associated with one property.
- Property-PropertyFeature (1:N): One property can have many features.
- Property-PropertyType (1:1): Each property belongs to one property type.

Cardinality and Optionality For Each Relationship

User-Property (User owns Property):

Cardinality: One User can own Many Properties (1:N)

Optionality: Mandatory (Each user must own at least one property)

User-Transaction (User involved in Transaction):

Cardinality: One User can be involved in Many Transactions (1:N)

Optionality: Optional (A user may not be involved in any transactions)

User-SearchHistory (User performs property searches):

Cardinality: One User can have Many Search History entries (1:N)

Optionality: Optional (A user may not have any search history)

User-SellingProperty (User sells Property):

Cardinality: One User can sell Many Properties (1:N)

Optionality: Optional (A user may not sell any properties)

User-UserSession (User has a session):

Cardinality: One User can have Many User Sessions (1:N)

Optionality: Optional (A user may not have any active sessions)

Property-Transaction (Property involved in Transaction):

Cardinality: One Property can be involved in Many Transactions (1:N)

Optionality: Optional (A property may not be involved in any transactions)

Property-Prediction (Property has Prediction):

Cardinality: One Property can have Many Predictions (1:N)

Optionality: Optional (A property may not have any predictions)

SearchHistory-Property (Property is part of a search history):

Cardinality: One Search History entry can be associated with One Property ((1:1

Optionality: Mandatory (Each search history entry must be associated with a property)

Property-PropertyFeature (Property has features):

Cardinality: One Property can have Many Property Features (1:N)

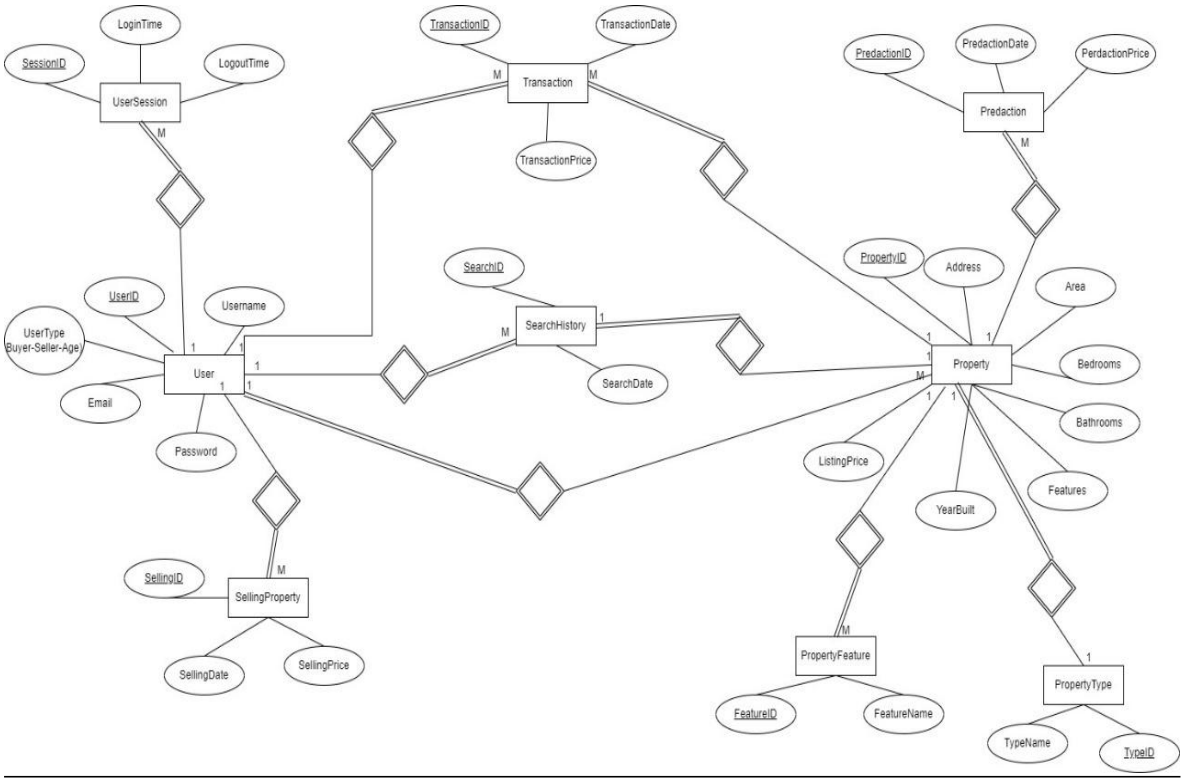
Optionality: Optional (A property may not have any features)

Property-PropertyType (Property belongs to a type):

Cardinality: One Property can belong to One Property Type ((1:1

Optionality: Mandatory (Each property must belong to a type)

ERD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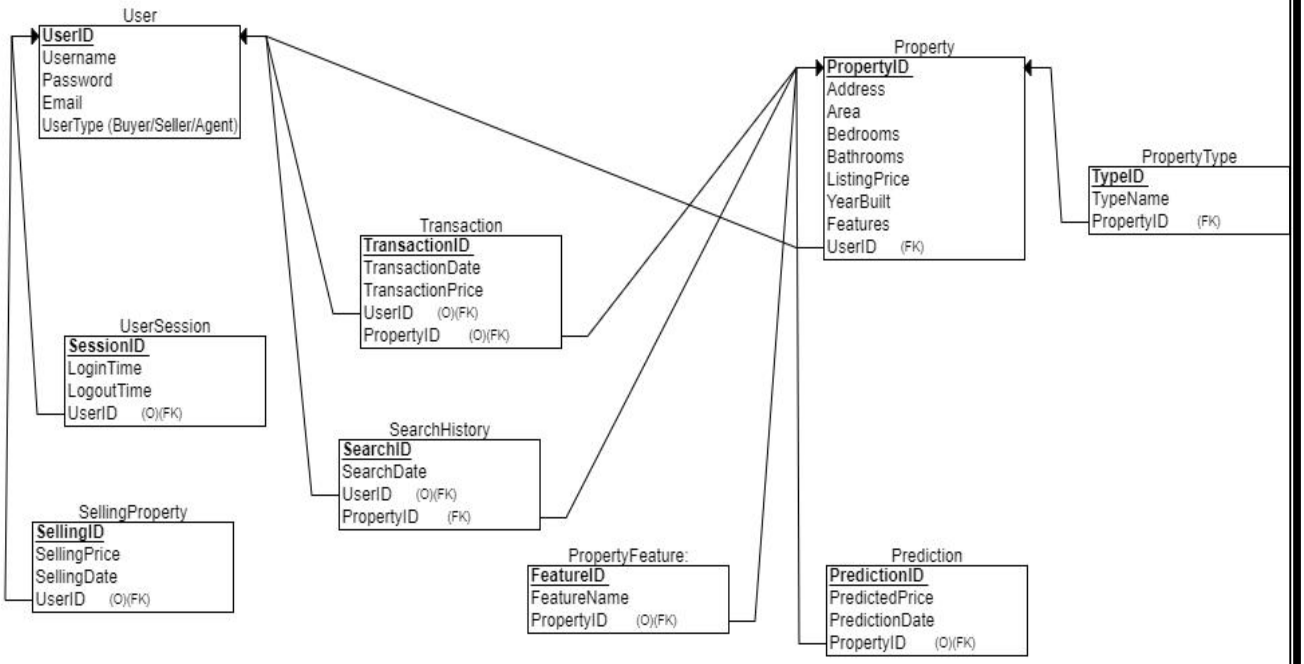
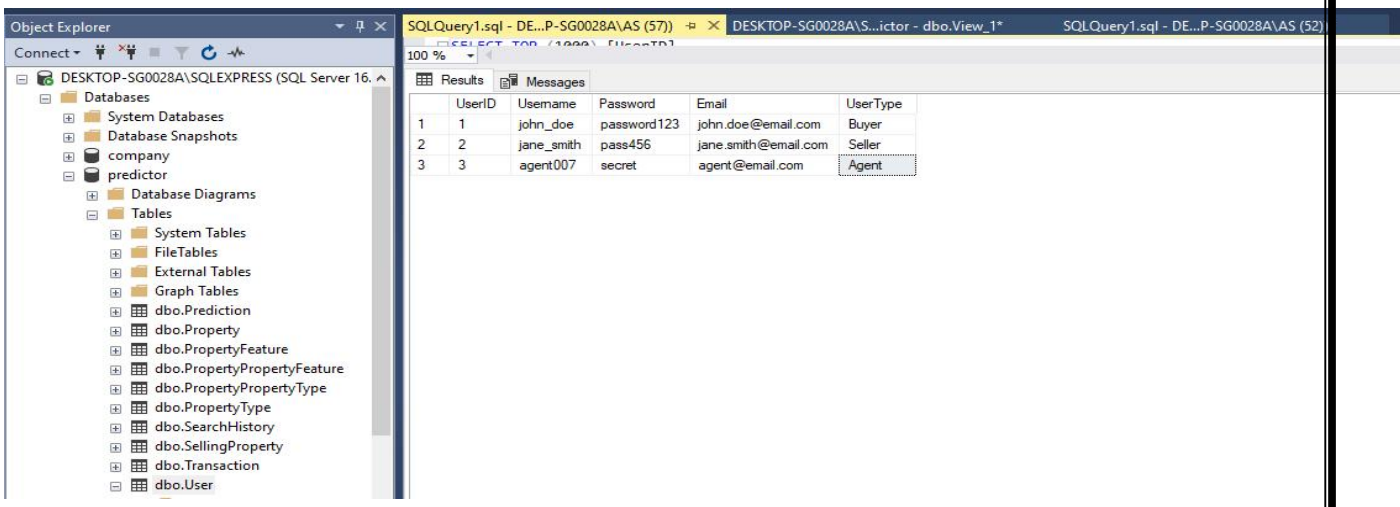
PropertyType
TypeName
TypeID

Relational schema

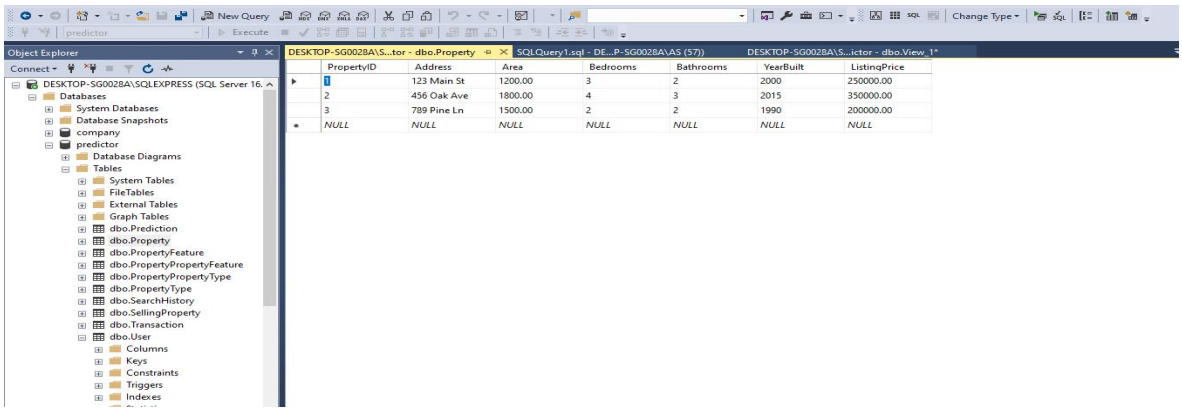


Sample Data in tables

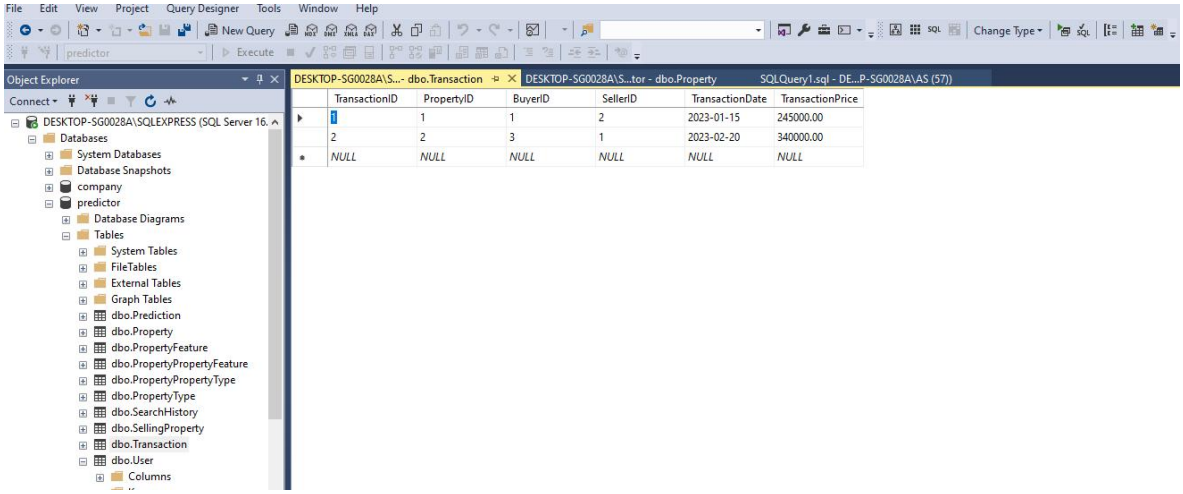
User table



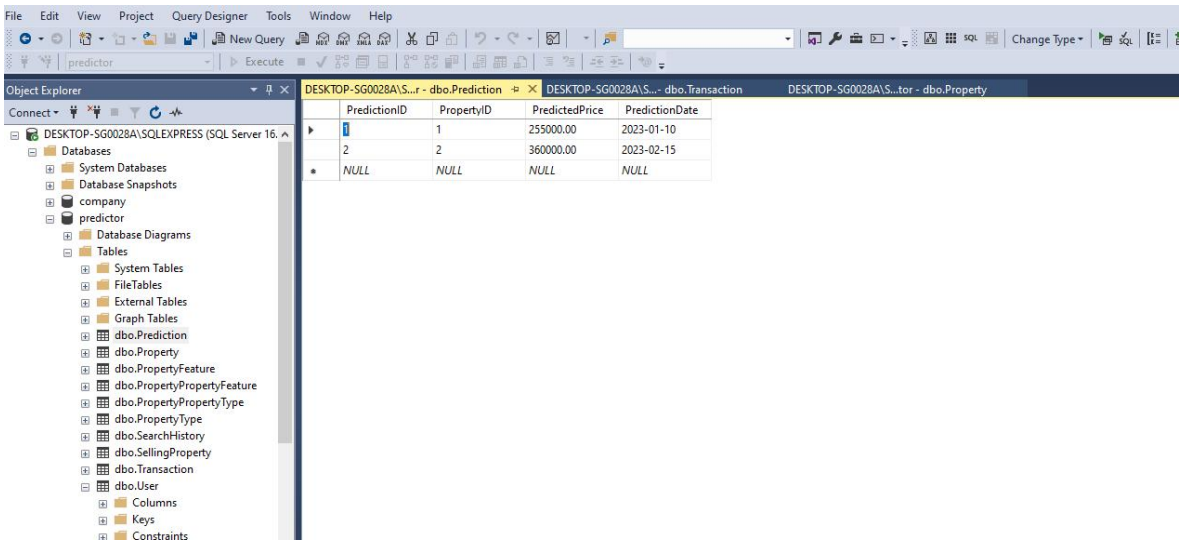
Property table



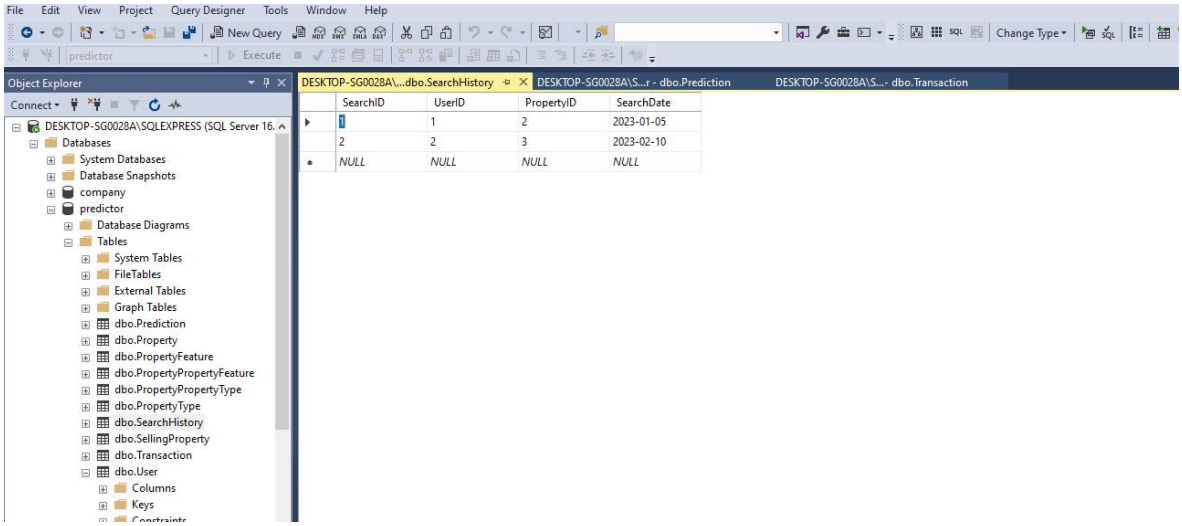
Transaction table



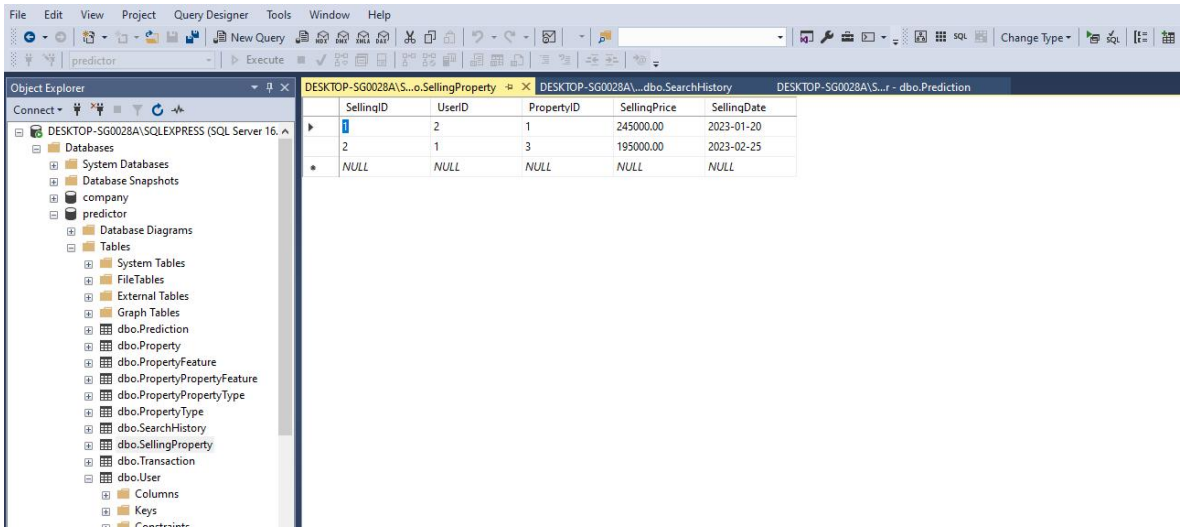
Prediction table



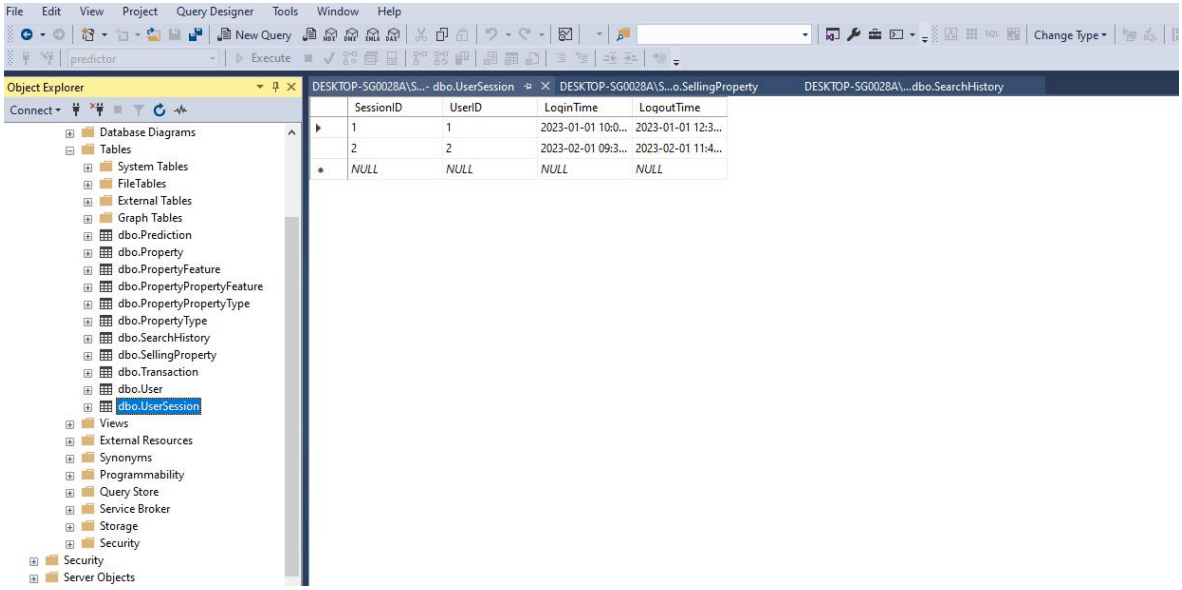
SearchHistory table



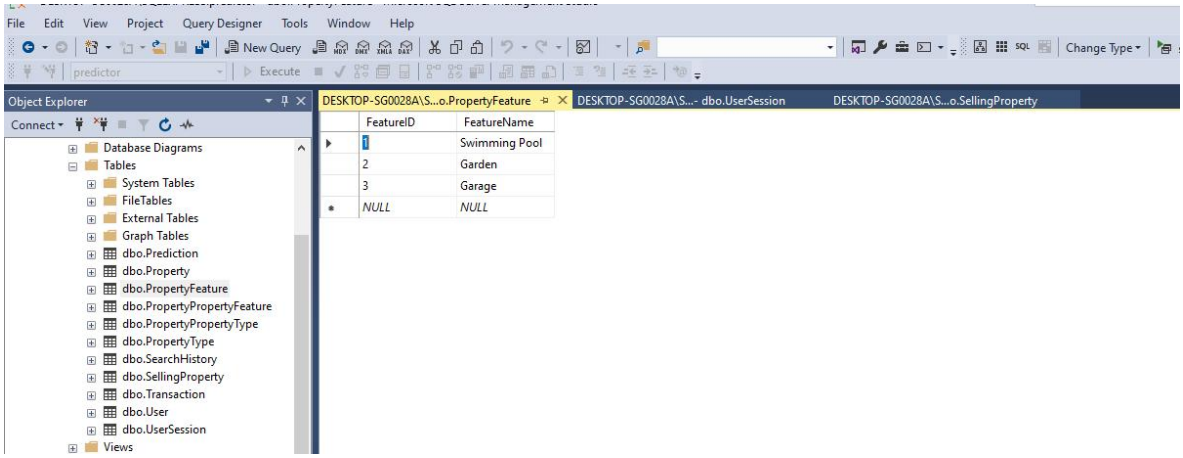
SellingProperty table



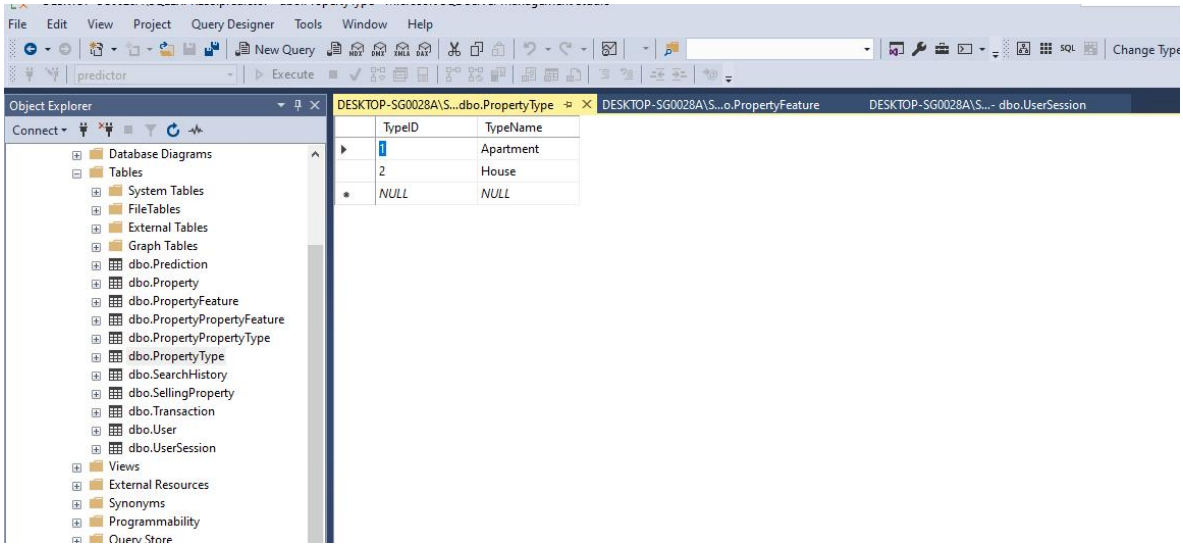
UserSession table



PropertyFeature Table



PropertyType Table



Queries & output

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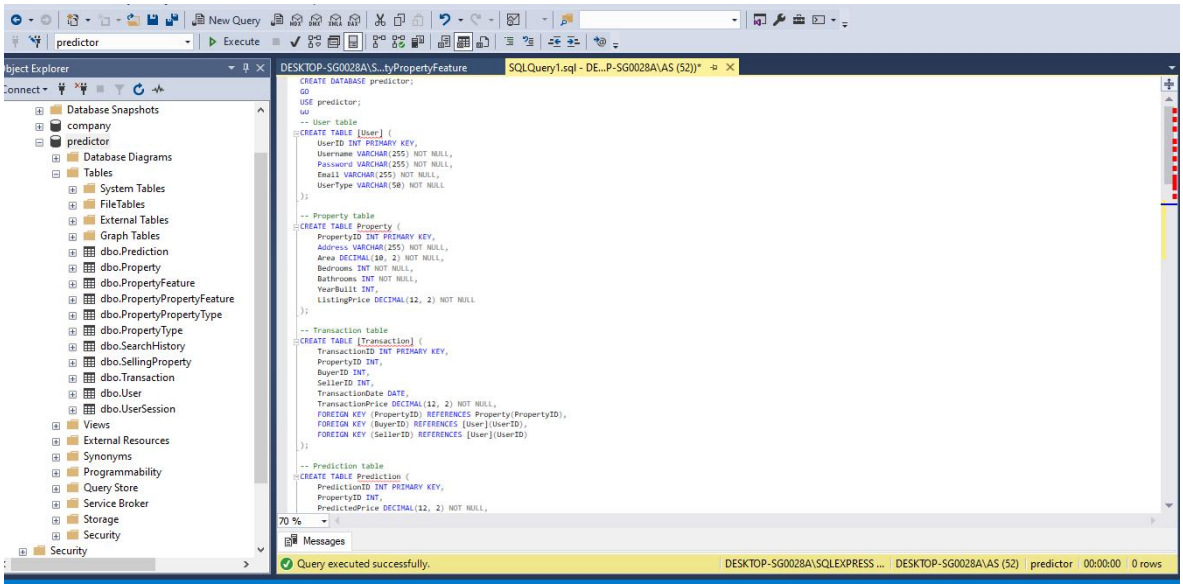

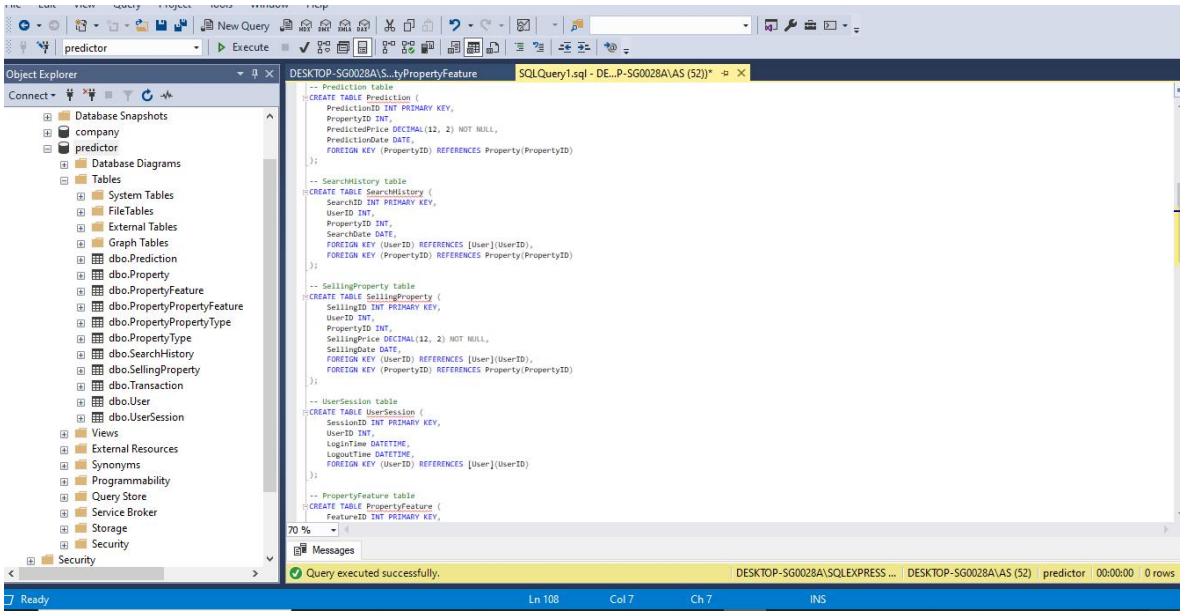
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SQLQuery1.sql - DE...P-SG0028A\AS (52))*
-- Prediction table
CREATE TABLE Prediction (
PredictionID INT PRIMARY KEY,
PropertyID INT,
PredictedPrice DECIMAL(12, 2) NOT NULL,
PredictionDate DATE,
FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID)
);
-- SearchHistory table
CREATE TABLE SearchHistory (
SearchID INT PRIMARY KEY,
UserID INT,
PropertyID INT,
SearchDate DATE,
FOREIGN KEY (UserID) REFERENCES [User](UserID),
FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID)
);
-- SellingProperty table
CREATE TABLE SellingProperty (
SellingID INT PRIMARY KEY,
UserID INT,
PropertyID INT,
SellingPrice DECIMAL(12, 2) NOT NULL,
SellingDate DATE,
FOREIGN KEY (UserID) REFERENCES [User](UserID),
FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID)
);
-- UserSession table
CREATE TABLE UserSession (
SessionID INT PRIMARY KEY,
UserID INT,
LoginTime DATETIME,
LogoutTime DATETIME,
FOREIGN KEY (UserID) REFERENCES [User](UserID)
);
-- PropertyFeature table
CREATE TABLE PropertyFeature (
FeatureID INT PRIMARY KEY,
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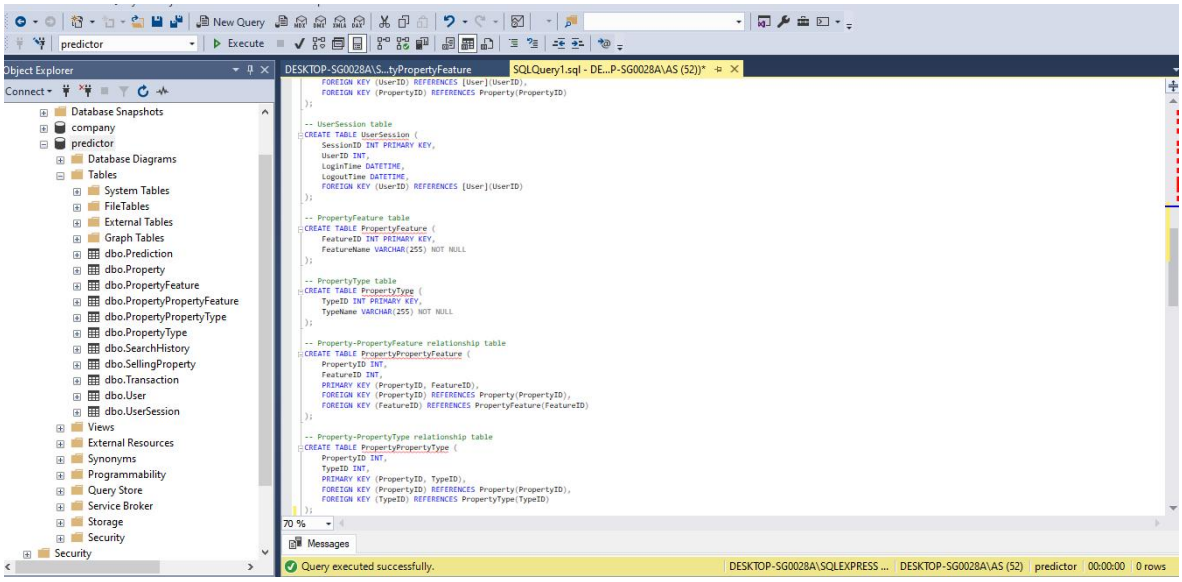
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FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID)
);
-- UserSession table
CREATE TABLE UserSession (
SessionID INT PRIMARY KEY,
UserID INT,
LoginTime DATETIME,
LogoutTime DATETIME,
FOREIGN KEY (UserID) REFERENCES [User](UserID)
);
-- PropertyFeature table
CREATE TABLE PropertyFeature (
FeatureID INT PRIMARY KEY,
FeatureName VARCHAR(255) NOT NULL
);
-- PropertyType table
CREATE TABLE PropertyType (
TypeID INT PRIMARY KEY,
TypeName VARCHAR(255) NOT NULL
);
-- Property-PropertyFeature relationship table
CREATE TABLE PropertyPropertyFeature (
PropertyID INT,
FeatureID INT,
PRIMARY KEY (PropertyID, FeatureID),
FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID),
FOREIGN KEY (FeatureID) REFERENCES PropertyFeature(FeatureID)
);
-- Property-PropertyType relationship table
CREATE TABLE PropertyPropertyType (
PropertyID INT,
TypeID INT,
PRIMARY KEY (PropertyID, TypeID),
FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID),
FOREIGN KEY (TypeID) REFERENCES PropertyType(TypeID)
);
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Messages
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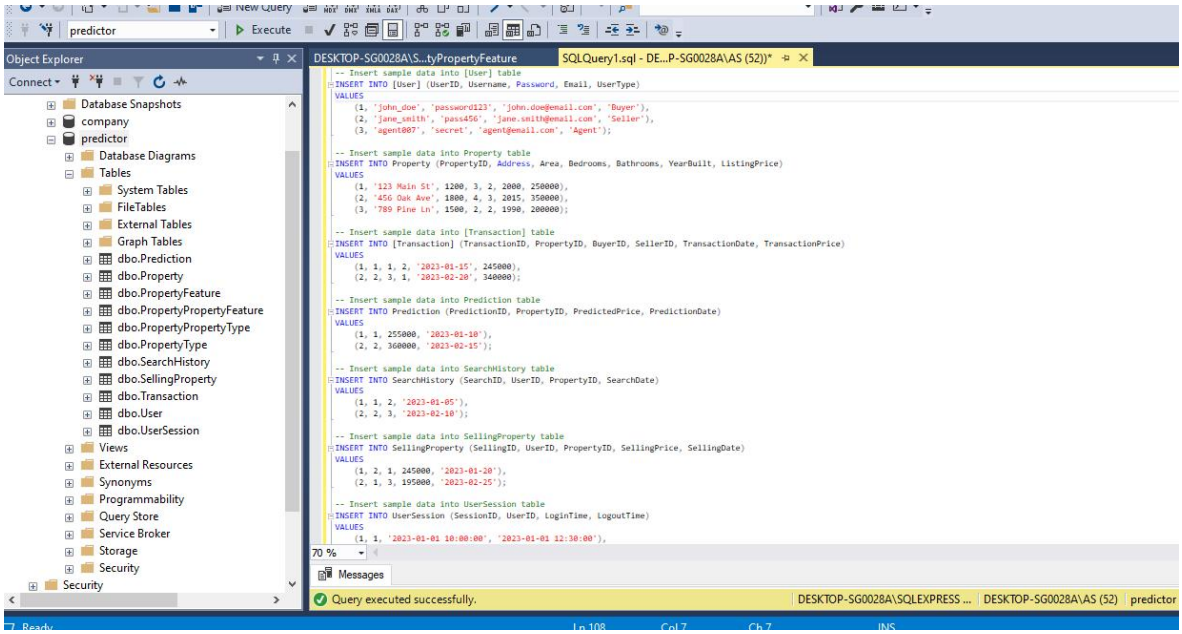
0 rows

DML: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SQLQuery1.sql - DE...P-SG0028A\AS (52))*
-- Insert sample data into [User] table
INSERT INTO [User] (UserID, Username, Password, Email, UserType)
VALUES
(1, 'john_doe', 'password123', 'john.doe@email.com', 'Buyer'),
(2, 'jane_smith', 'pass456', 'jane.smith@email.com', 'Seller'),
(3, 'agent007', 'secret', 'agent@email.com', 'Agent');
-- Insert sample data into Property table
INSERT INTO Property (PropertyID, Address, Area, Bedrooms, Bathrooms, YearBuilt, ListingPrice)
VALUES
(1, '123 Main St', 1200, 3, 2, 2000, 250000),
(2, '456 Oak Ave', 1800, 4, 3, 2015, 350000),
(3, '789 Pine Ln', 1500, 2, 2, 1990, 200000);
-- Insert sample data into [Transaction] table
INSERT INTO [Transaction] (TransactionID, PropertyID, BuyerID, SellerID, TransactionDate, TransactionPrice)
VALUES
(1, 1, 1, 2, '2023-01-15', 245000),
(2, 2, 3, 1, '2023-02-20', 340000);
-- Insert sample data into Prediction table
INSERT INTO Prediction (PredictionID, PropertyID, PredictedPrice, PredictionDate)
VALUES
(1, 1, 255000, '2023-01-10'),
(2, 2, 360000, '2023-02-15');
-- Insert sample data into SearchHistory table
INSERT INTO SearchHistory (SearchID, UserID, PropertyID, SearchDate)
VALUES
(1, 1, 2, '2023-01-05'),
(2, 2, 3, '2023-02-10');
-- Insert sample data into SellingProperty table
INSERT INTO SellingProperty (SellingID, UserID, PropertyID, SellingPrice, SellingDate)
VALUES
(1, 2, 1, 245000, '2023-01-20'),
(2, 1, 3, 195000, '2023-02-25');
-- Insert sample data into UserSession table
INSERT INTO UserSession (SessionID, UserID, LoginTime, LogoutTime)
VALUES
(1, 1, '2023-01-01 10:00:00', '2023-01-01 12:30:00'),
70 %
Messages
Query executed successfully.
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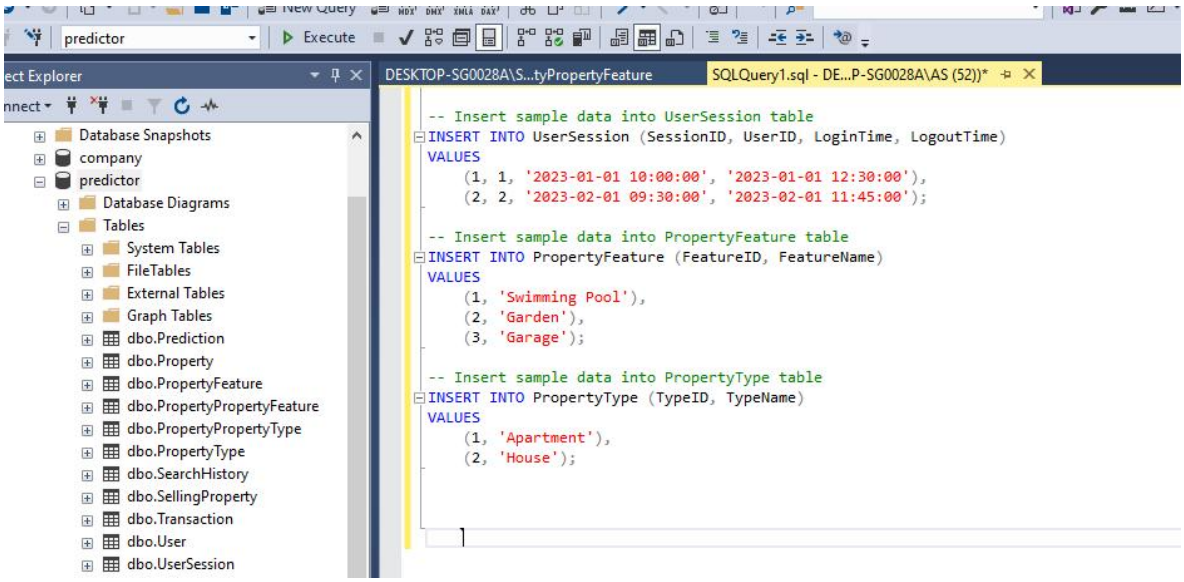
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dbo.User
dbo.UserSession
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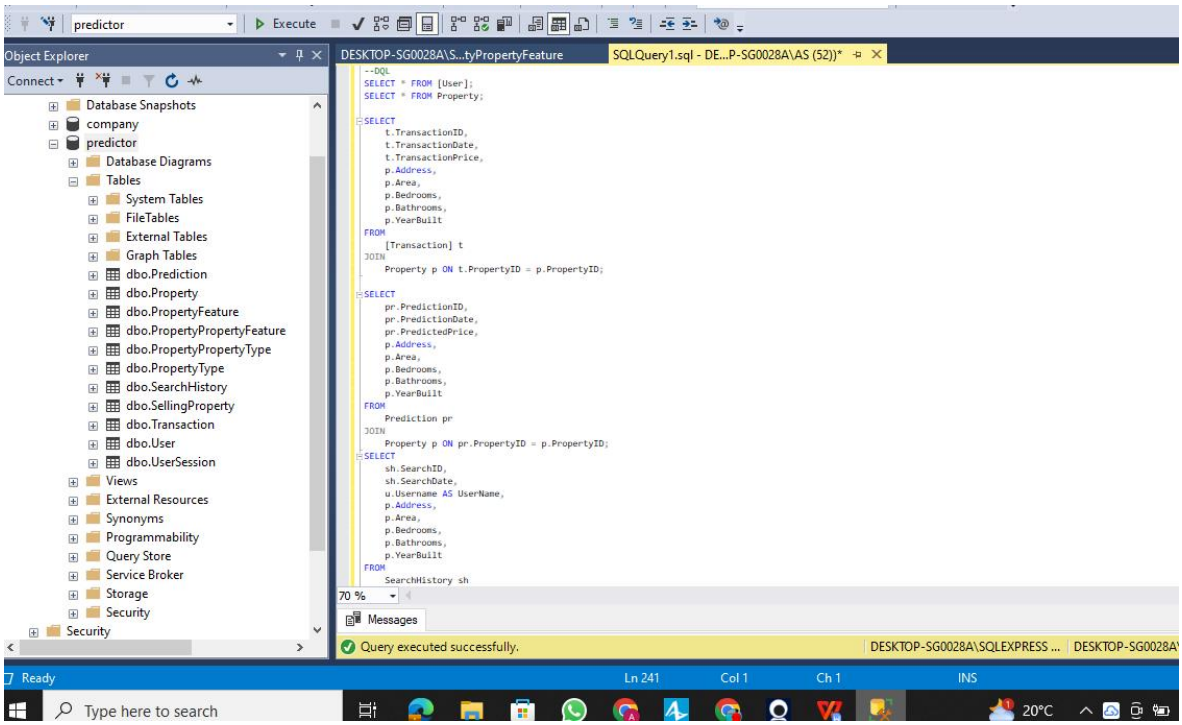
SQLQuery1.sql - DE...P-SG0028A\AS (52))*
-- Insert sample data into UserSession table
INSERT INTO UserSession (SessionID, UserID, LoginTime, LogoutTime)
VALUES
(1, 1, '2023-01-01 10:00:00', '2023-01-01 12:30:00'),
(2, 2, '2023-02-01 09:30:00', '2023-02-01 11:45:00');
-- Insert sample data into PropertyFeature table
INSERT INTO PropertyFeature (FeatureID, FeatureName)
VALUES
(1, 'Swimming Pool'),
(2, 'Garden'),
(3, 'Garage');
-- Insert sample data into PropertyType table
INSERT INTO PropertyType (TypeID, TypeName)
VALUES
(1, 'Apartment'),
(2, 'House');

DQL: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SQLQuery1.sql - DE...P-SG0028A\AS (52))*
--DQL
SELECT * FROM [User];
SELECT * FROM Property;
SELECT
t.TransactionID,
t.TransactionDate,
t.TransactionPrice,
p.Address,
p.Area,
p.Bedrooms,
p.Bathrooms,
p.YearBuilt
FROM
[Transaction] t
JOIN
Property p ON t.PropertyID = p.PropertyID;
SELECT
pr.PredictionID,
pr.PredictionDate,
pr.PredictedPrice,
p.Address,
p.Area,
p.Bedrooms,
p.Bathrooms,
p.YearBuilt
FROM
Prediction pr
JOIN
Property p ON pr.PropertyID = p.PropertyID;
SELECT
sh.SearchID,
sh.SearchDate,
u.Username AS UserName,
p.Address,
p.Area,
p.Bedrooms,
p.Bathrooms,
p.YearBuilt
FROM
SearchHistory sh
70 %
Messages
Query executed successfully.
DESKTOP-SG0028A\SQLEXPRESS ...
Ready
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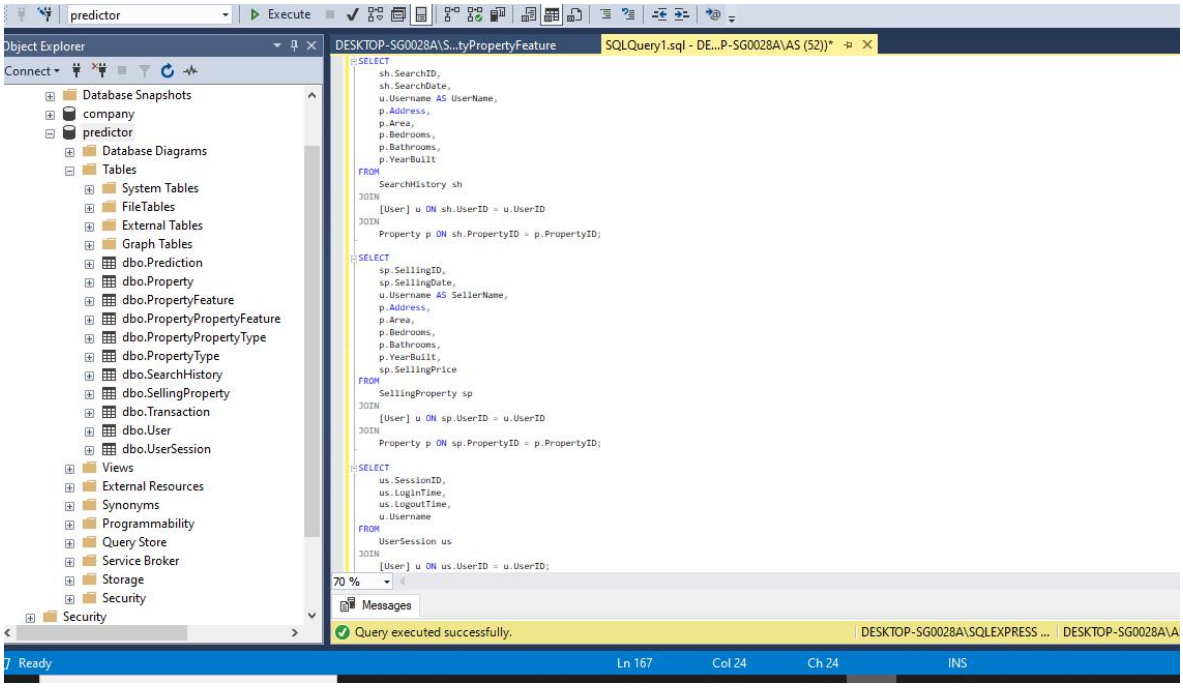
Ch 1
INS
Type here to search
20°C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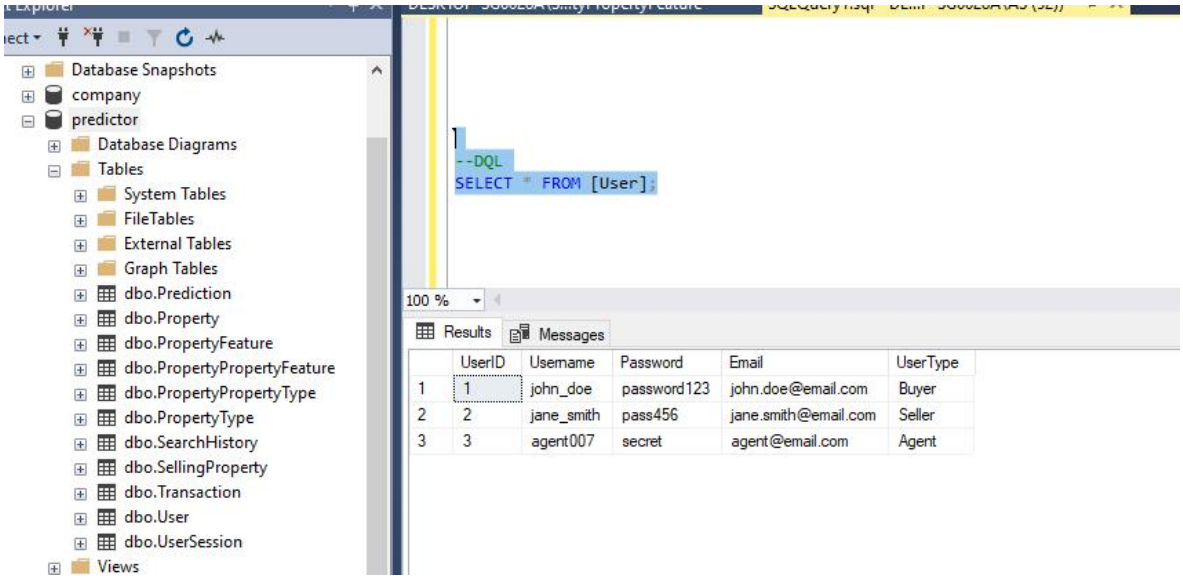
Security
DESKTOP-SG0028A\S...tyPropertyFeature
SQLQuery1.sql - DE...P-SG0028A\AS (52))*
SELECT
sh.SearchID,
sh.SearchDate,
u.Username AS UserName,
p.Address,
p.Area,
p.Bedrooms,
p.Bathrooms,
p.YearBuilt
FROM
SearchHistory sh
JOIN
[User] u ON sh.UserID = u.UserID
JOIN
Property p ON sh.PropertyID = p.PropertyID;
SELECT
sp.SellingID,
sp.SellingDate,
u.Username AS SellerName,
p.Address,
p.Area,
p.Bedrooms,
p.Bathrooms,
p.YearBuilt,
sp.SellingPrice
FROM
SellingProperty sp
JOIN
[User] u ON sp.UserID = u.UserID
JOIN
Property p ON sp.PropertyID = p.PropertyID;
SELECT
us.SessionID,
us.LoginTime,
us.LogoutTime,
u.Username
FROM
UserSession us
JOIN
[User] u ON us.UserID = u.UserID;
70 %
Messages
Query executed successfully.
DESKTOP-SG0028A\SQLEXPRESS ...
Ready
Ln 167
Col 24
Ch 24
INS

Output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dbo.Prediction
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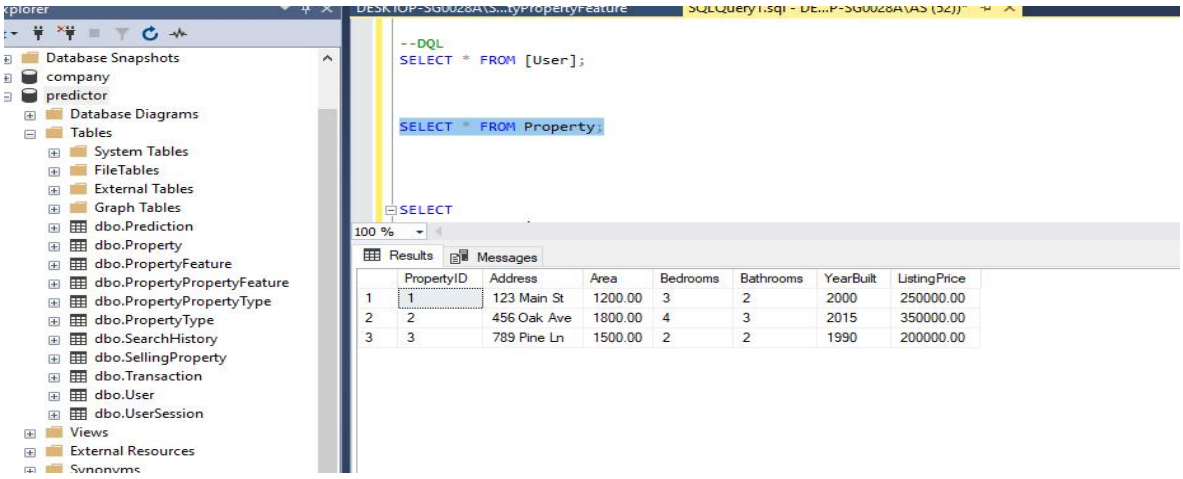
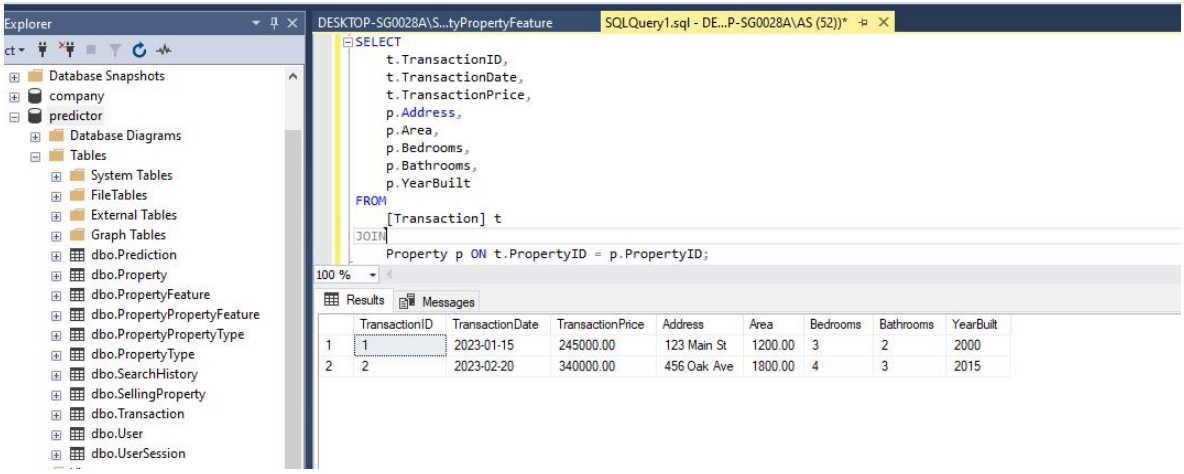
dbo.PropertyFeature
dbo.PropertyPropertyFeature
dbo.PropertyPropertyType
dbo.PropertyType
dbo.SearchHistory
dbo.SellingProperty
dbo.Transaction
dbo.User
dbo.UserSession
Views
--DQL
SELECT * FROM [User];
100 %
Results
Messages
UserID Username Password Email UserType
1 1 john_doe password123 john.doe@email.com Buyer
2 2 jane_smith pass456 jane.smith@email.com Seller
3 3 agent007 secret agent@email.com Agent


Database Snapshots
company
predictor
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.Prediction
dbo.Property
dbo.PropertyFeature
dbo.PropertyPropertyFeature
dbo.PropertyPropertyType
dbo.PropertyType
dbo.SearchHistory
dbo.SellingProperty
dbo.Transaction
dbo.User
dbo.UserSession
Views
External Resources
--DQL
SELECT * FROM [User];
SELECT * FROM Property;
SELECT
100 %
Results
Messages
PropertyID Address Area Bedrooms Bathrooms YearBuilt ListingPrice
1 1 123 Main St 1200.00 3 2 2000 250000.00
2 2 456 Oak Ave 1800.00 4 3 2015 350000.00
3 3 789 Pine Ln 1500.00 2 2 1990 200000.00


Explorer
DESKTOP-SG0028A\S...tyPropertyFeature
SQLQuery1.sql - DE...P-SG0028A\AS (52))*
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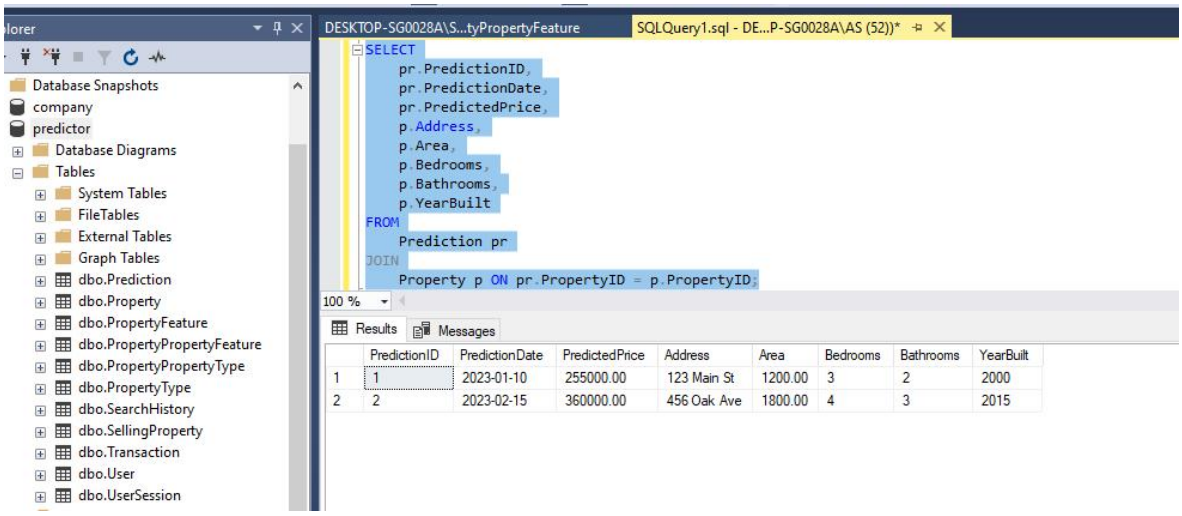
dbo.Prediction
dbo.Property
dbo.PropertyFeature
dbo.PropertyPropertyFeature
dbo.PropertyPropertyType
dbo.PropertyType
dbo.SearchHistory
dbo.SellingProperty
dbo.Transaction
dbo.User
dbo.UserSession
SELECT
t.TransactionID,
t.TransactionDate,
t.TransactionPrice,
p.Address,
p.Area,
p.Bedrooms,
p.Bathrooms,
p.YearBuilt
FROM
[Transaction] t
JOIN
Property p ON t.PropertyID = p.PropertyID;
100 %
Results
Messages
TransactionID TransactionDate TransactionPrice Address Area Bedrooms Bathrooms YearBuilt
1 1 2023-01-15 245000.00 123 Main St 1200.00 3 2 2000
2 2 2023-02-20 340000.00 456 Oak Ave 1800.00 4 3 2015


DESKTOP-SG0028A\S...tyPropertyFeature
SQLQuery1.sql - DE...P-SG0028A\AS (52))*
Database Snapshots
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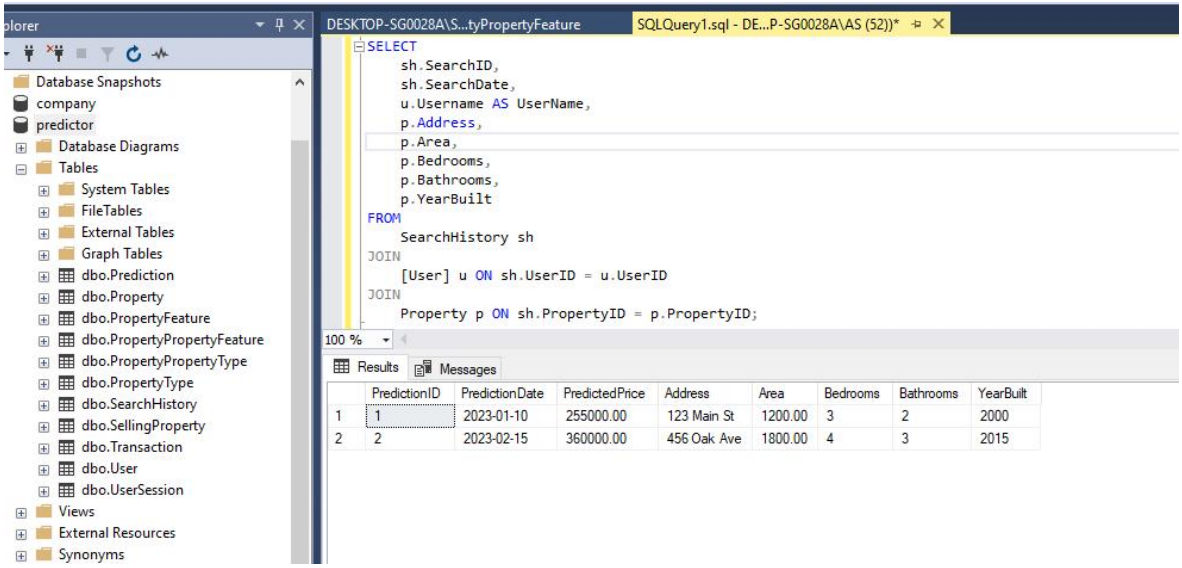
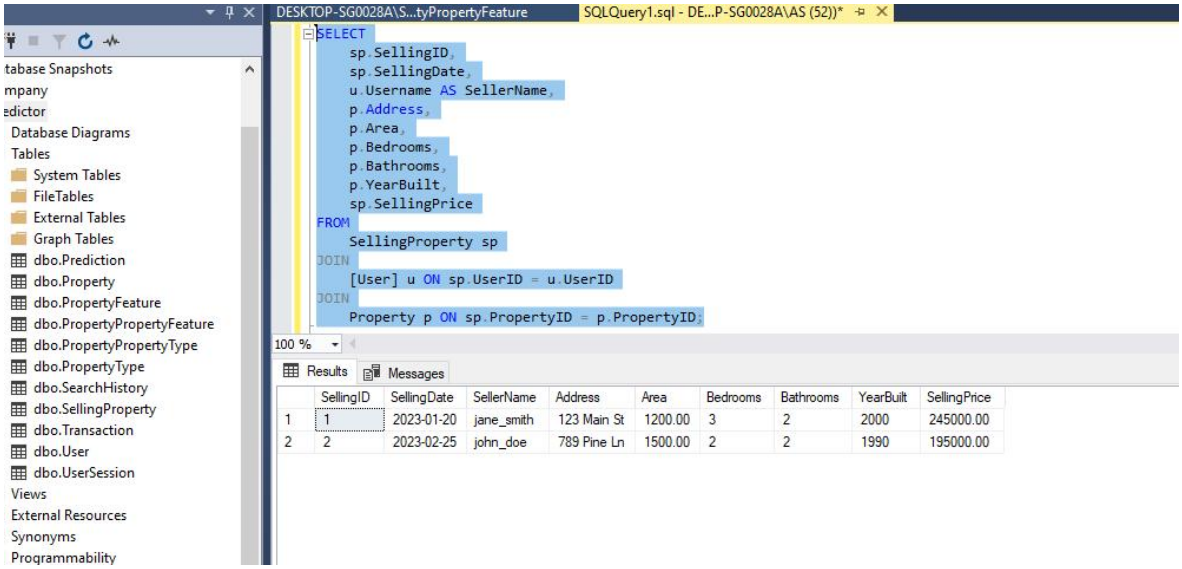
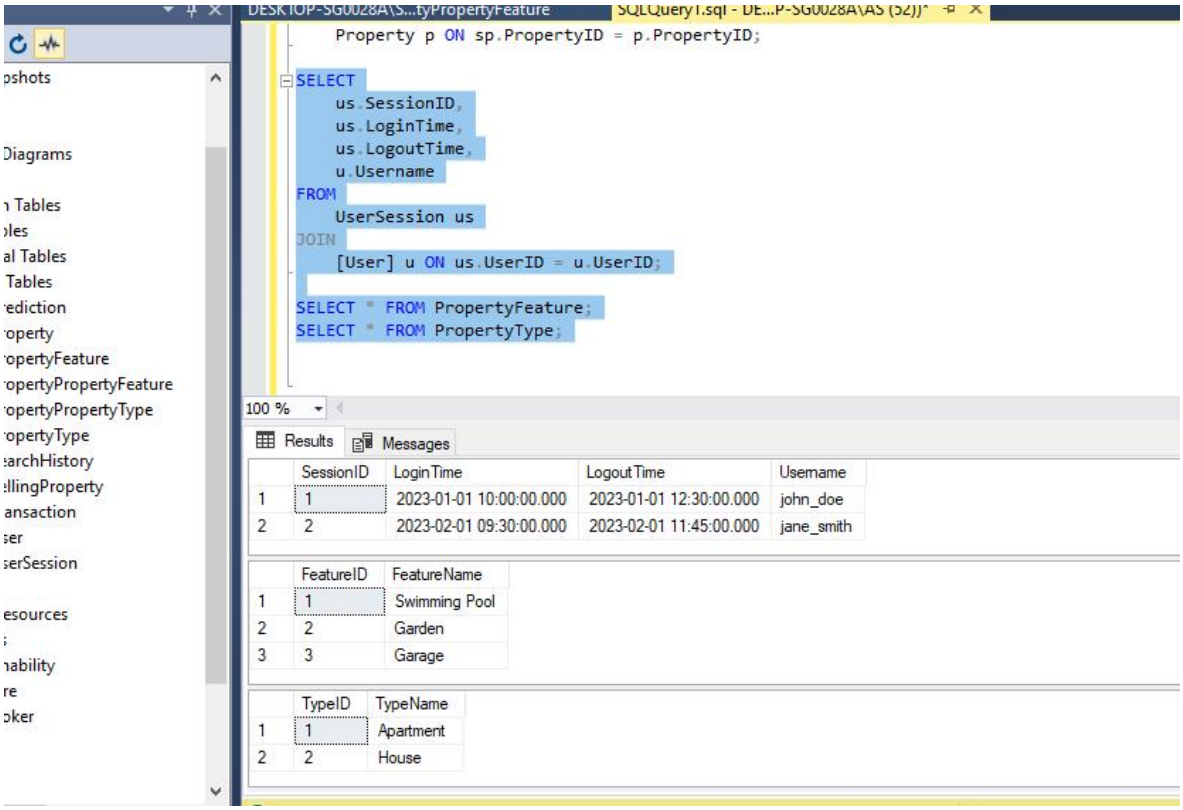
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.Prediction
dbo.Property
dbo.PropertyFeature
dbo.PropertyPropertyFeature
dbo.PropertyPropertyType
dbo.PropertyType
dbo.SearchHistory
dbo.SellingProperty
dbo.Transaction
dbo.User
dbo.UserSession
SELECT
pr.PredictionID,
pr.PredictionDate,
pr.PredictedPrice,
p.Address,
p.Area,
p.Bedrooms,
p.Bathrooms,
p.YearBuilt
FROM
Prediction pr
JOIN
Property p ON pr.PropertyID = p.PropertyID;
100 %
Results
Messages
PredictionID PredictionDate PredictedPrice Address Area Bedrooms Bathrooms YearBuilt
1 1 2023-01-10 255000.00 123 Main St 1200.00 3 2 2000
2 2 2023-02-15 360000.00 456 Oak Ave 1800.00 4 3 2015

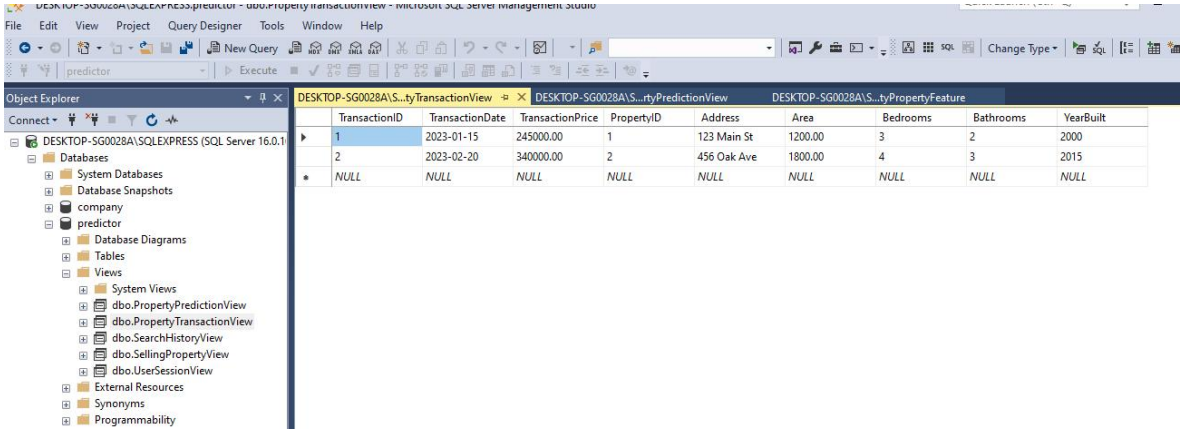

Database Snapshots
company
predictor
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.Prediction
dbo.Property
dbo.PropertyFeature
dbo.PropertyPropertyFeature
dbo.PropertyPropertyType
dbo.PropertyType
dbo.SearchHistory
dbo.SellingProperty
dbo.Transaction
dbo.User
dbo.UserSession
Views
External Resources
Synonyms
DESKTOP-SG0028A\S...tyPropertyFeature
SQLQuery1.sql - DE...P-SG0028A\AS (52))*
SELECT
sh.SearchID,
sh.SearchDate,
u.Username AS UserName,
p.Address,
p.Area,
p.Bedrooms,
p.Bathrooms,
p.YearBuilt
FROM
SearchHistory sh
JOIN
[User] u ON sh.UserID = u.UserID
JOIN
Property p ON sh.PropertyID = p.PropertyID;
100 %
Results
Messages
PredictionID PredictionDate PredictedPrice Address Area Bedrooms Bathrooms YearBuilt
1 1 2023-01-10 255000.00 123 Main St 1200.00 3 2 2000
2 2 2023-02-15 360000.00 456 Oak Ave 1800.00 4 3 2015


DESKTOP-SG0028A\S...tyPropertyFeature
SQLQuery1.sql - DE...P-SG0028A\AS (52))*
SELECT
sp.SellingID,
sp.SellingDate,
u.Username AS SellerName,
p.Address,
p.Area,
p.Bedrooms,
p.Bathrooms,
p.YearBuilt,
sp.SellingPrice
FROM
SellingProperty sp
JOIN
[User] u ON sp.UserID = u.UserID
JOIN
Property p ON sp.PropertyID = p.PropertyID;
100 %
Results
Messages
SellingID SellingDate SellerName Address Area Bedrooms Bathrooms YearBuilt SellingPrice
1 1 2023-01-20 jane_smith 123 Main St 1200.00 3 2 2000 245000.00
2 2 2023-02-25 john_doe 789 Pine Ln 1500.00 2 2 1990 195000.00

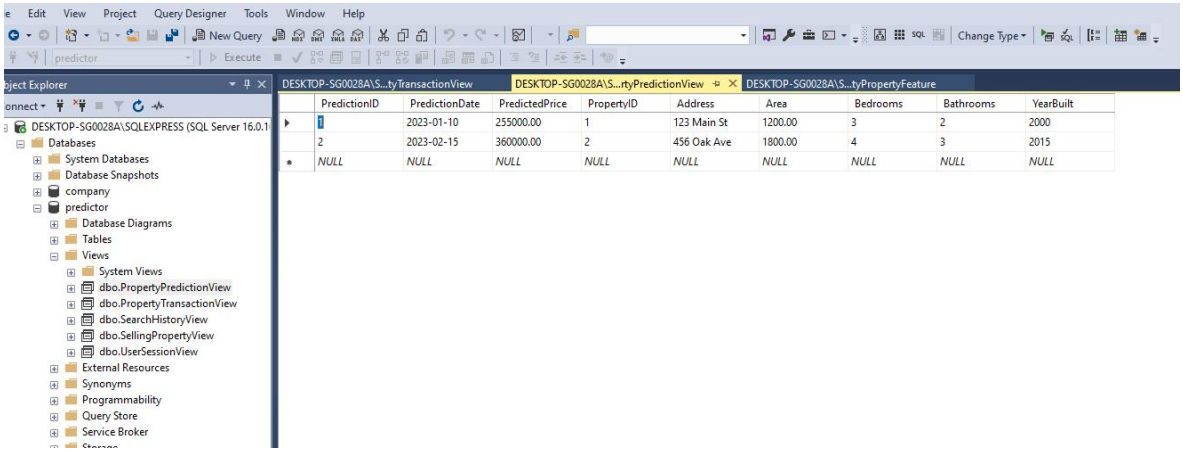


Views

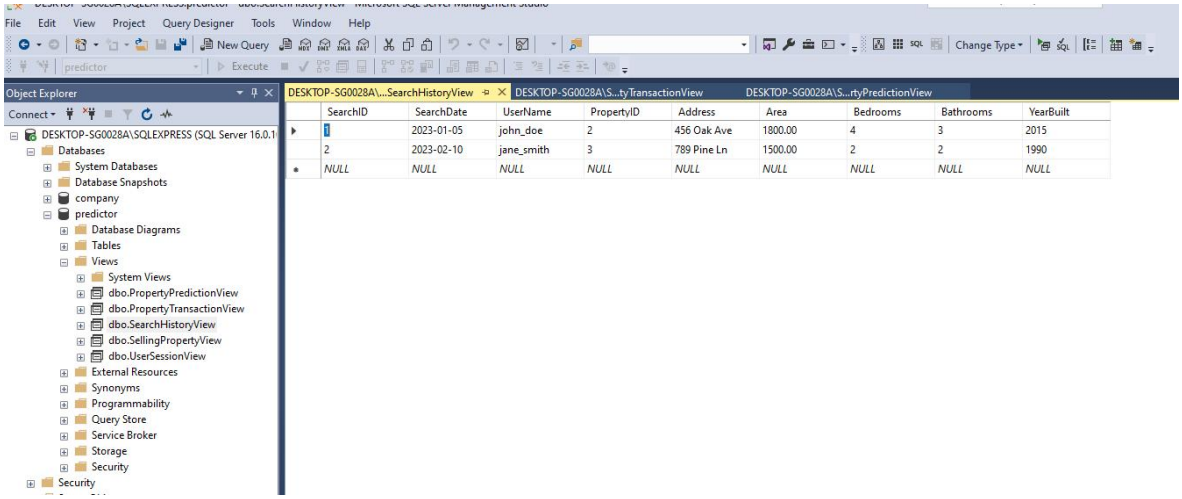
PropertyTransactionView



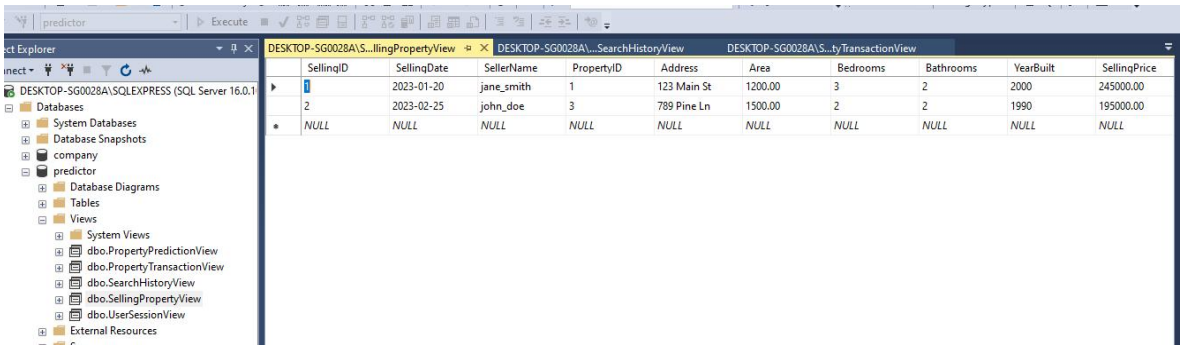
PropertyPredictionView



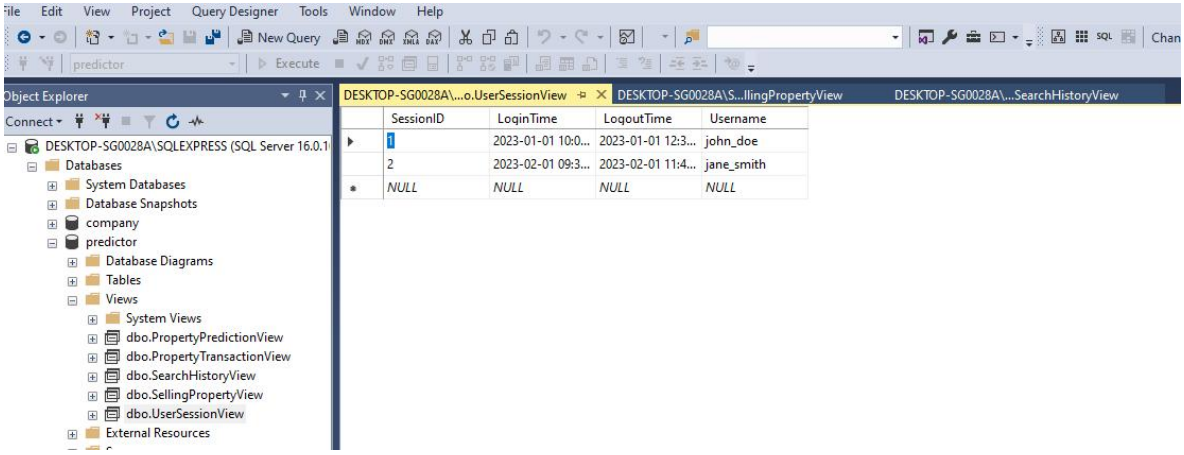
SearchHistoryView



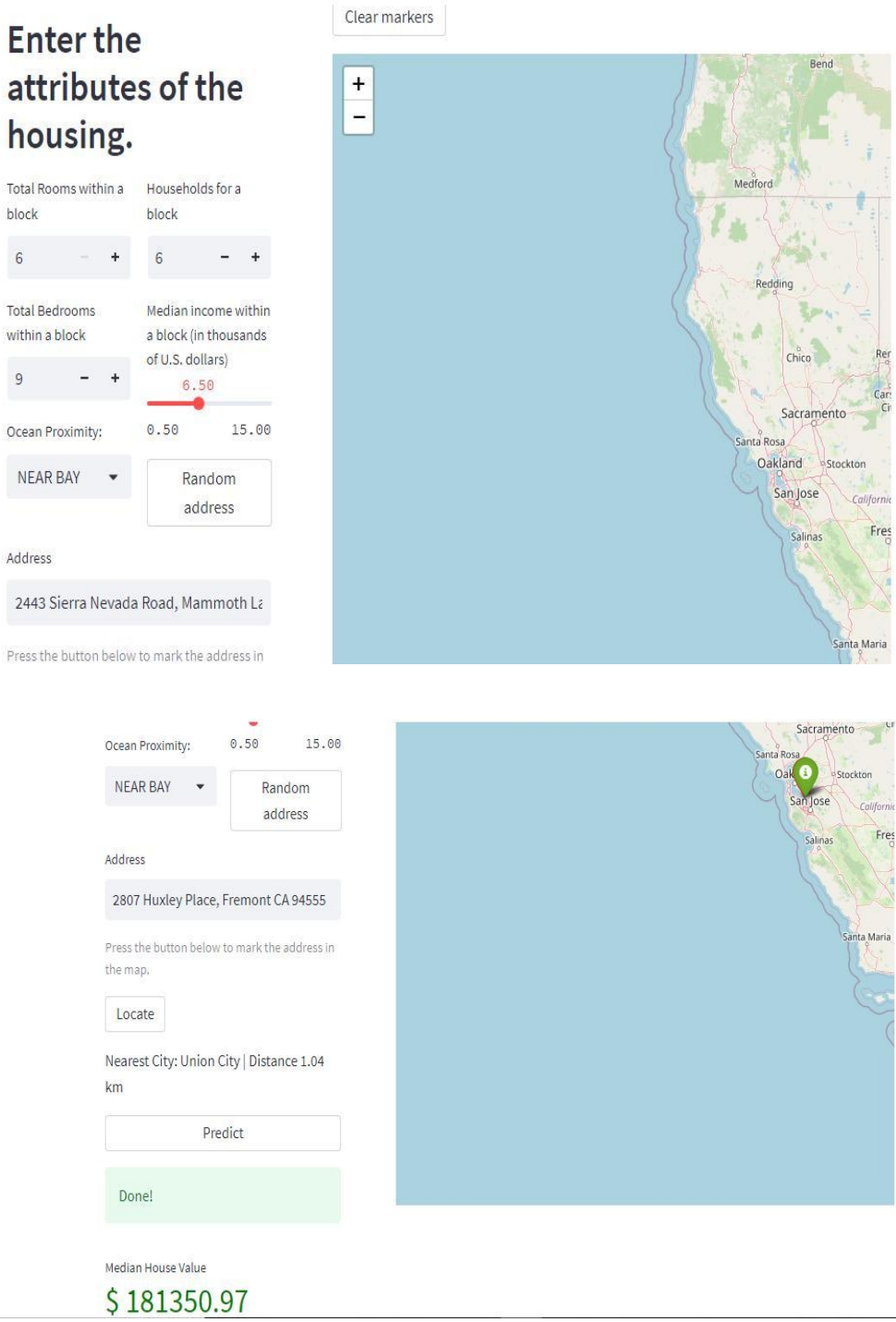
SellingPropertyView



UserSessionView



Interface


Enter the attributes of the housing.
Total Rooms within a block
6
Households for a block
6
Total Bedrooms within a block
9
Median income within a block (in thousands of U.S. dollars)
6.50
Ocean Proximity:
0.50
15.00
NEAR BAY
Random address
Address
2443 Sierra Nevada Road, Mammoth La
Press the button below to mark the address in
Clear markers
Bend
Medford
Redding
Chico
Sacramento
Santa Rosa
Oakland
Stockton
San Jose
Salinas
Santa Maria
Ocean Proximity:
0.50
15.00
NEAR BAY
Random address
Address
2807 Huxley Place, Fremont CA 94555
Press the button below to mark the address in the map.
Locate
Nearest City: Union City | Distance 1.04 km
Predict
Done!
Median House Value
$ 181350.97