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**Assessment 2 of Data Engineering - 05/12/23**

Today we learned about databases, sql , sql commands and implemented all of them using **MySql studio**.

**Infrastructure of Application:**

It contains mainly 3 components

Web server

App server

Database

**RDBMS:**

Relational database contains data in form of tables.

**Sql uses:**

Speed

Reliability

Ease of use

**LAMP COMPONENTS:**

Linux.

Apache http server.

MySql.

Php or perl or python.

**Client server interaction:**

Makes a query

Server

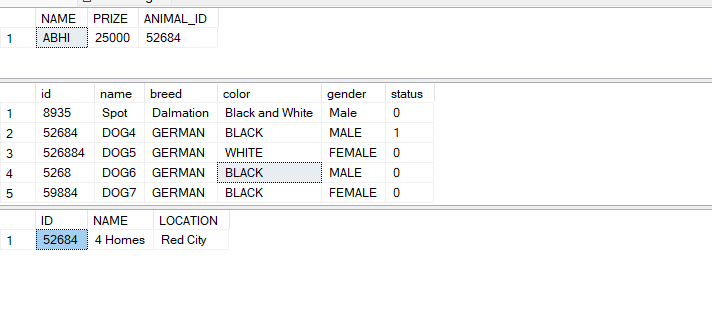
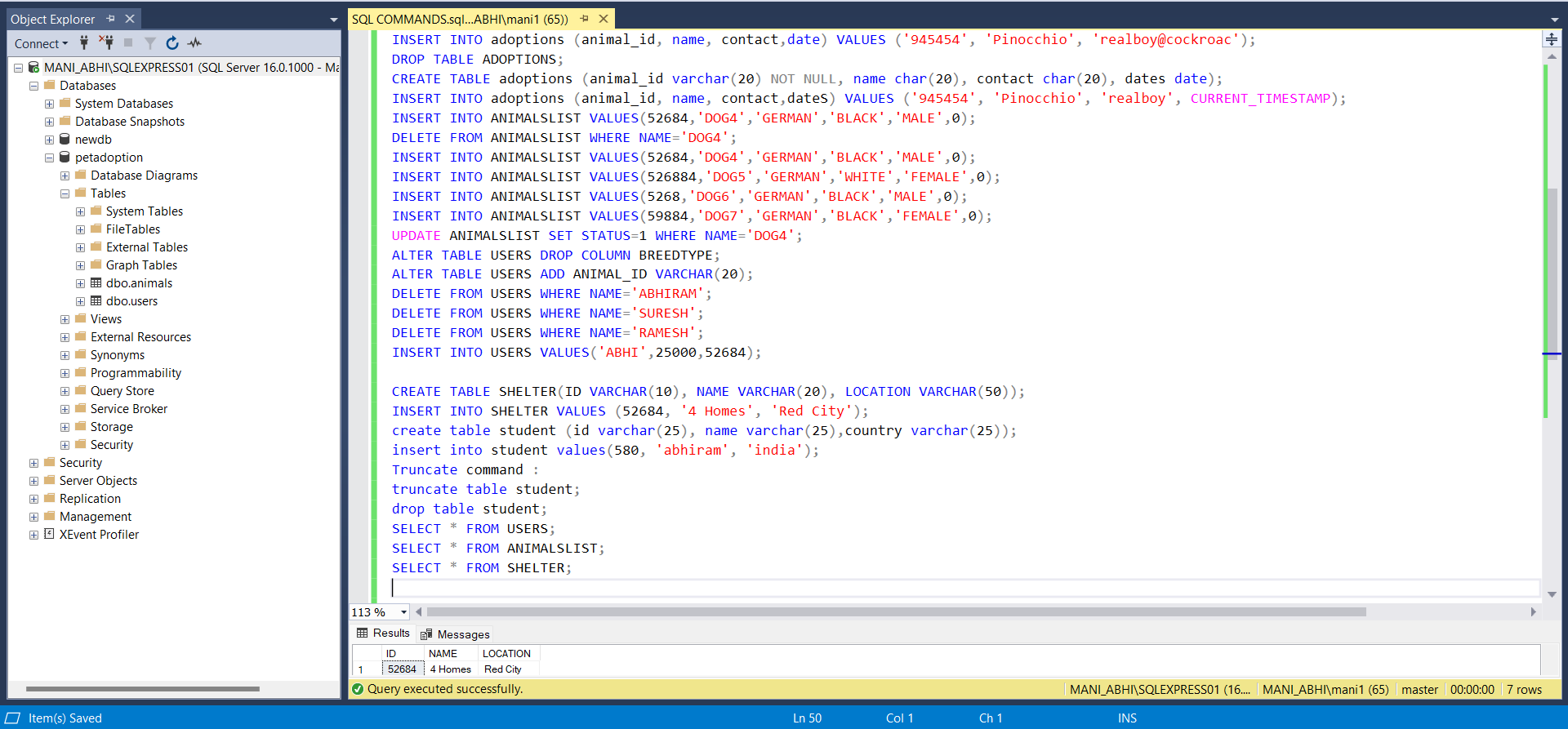
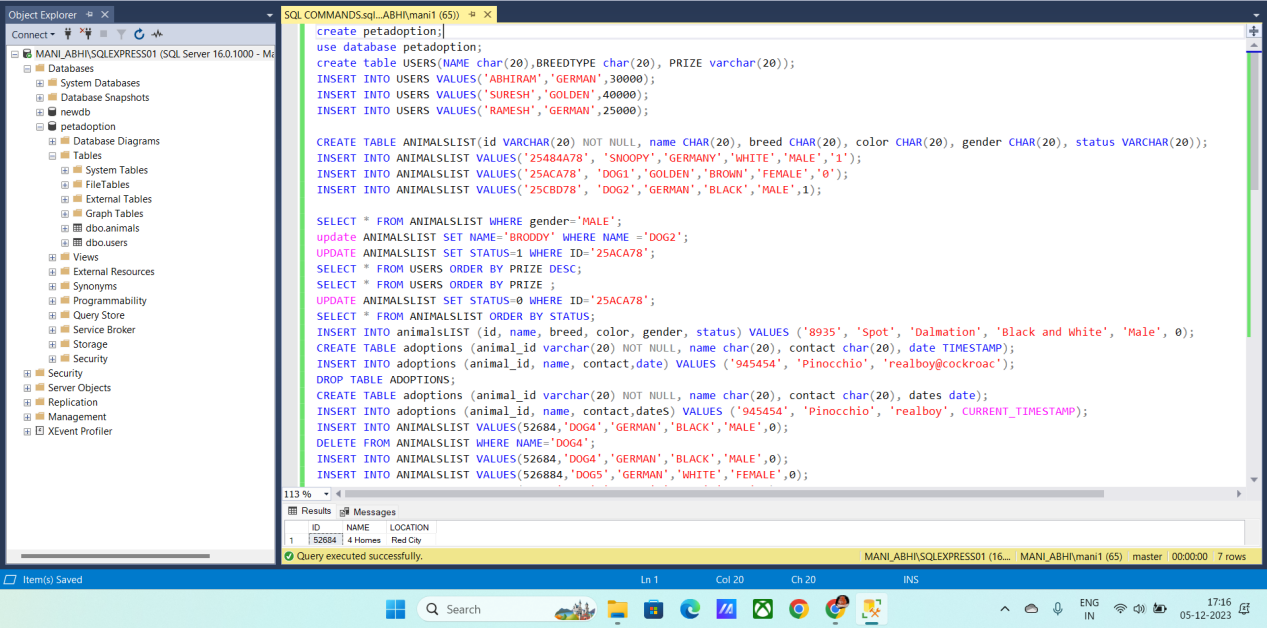
Get results

Client

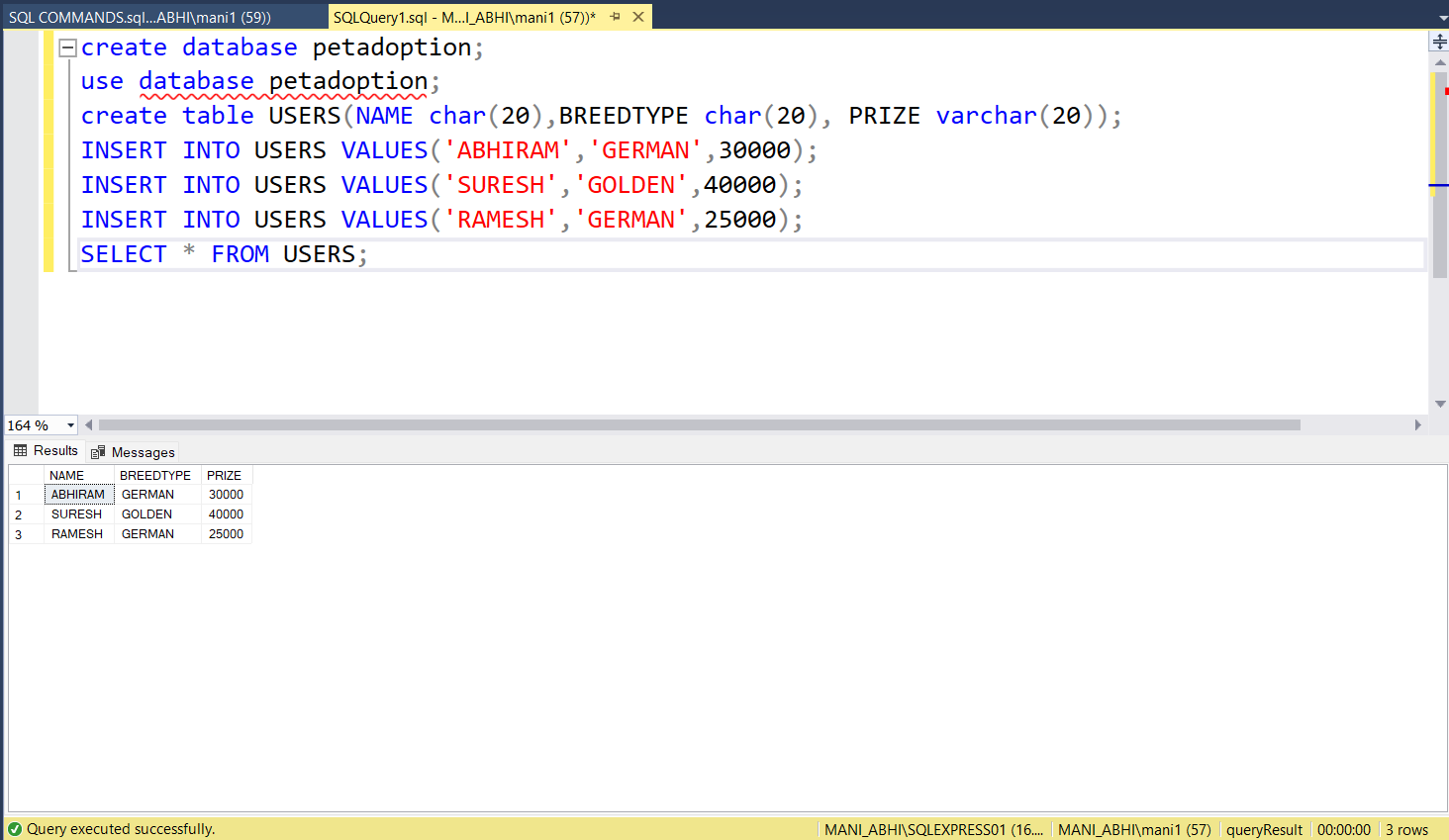
**Sql Commands:**

1. **DDL commands**
   1. CREATE
   2. Drop
   3. Alter
   4. Truncate
   5. Rename
   6. Comment
2. **DML commands**
   1. insert
   2. Update
   3. delete
3. **DCL commands**
   1. Grant
   2. revoke
4. **DQL commands**
   1. select
5. **TCL commands**
   1. Commit
   2. Save point
   3. Roll back

**SQL commands implementation:**

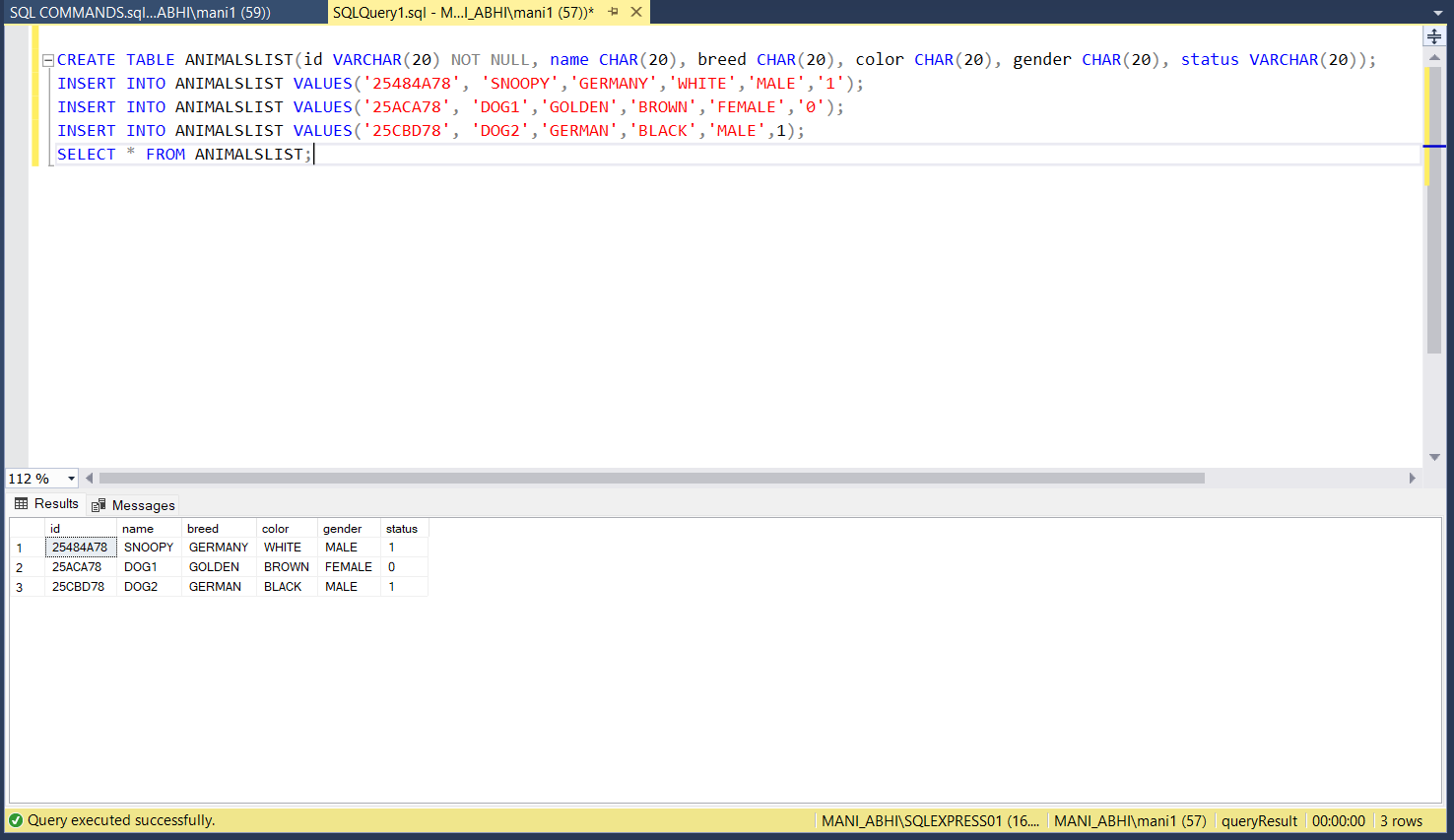
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First we created a database called “pet adoption” and then we used it.

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Created a table called USERS and inserted values into it, using **insert** statement.

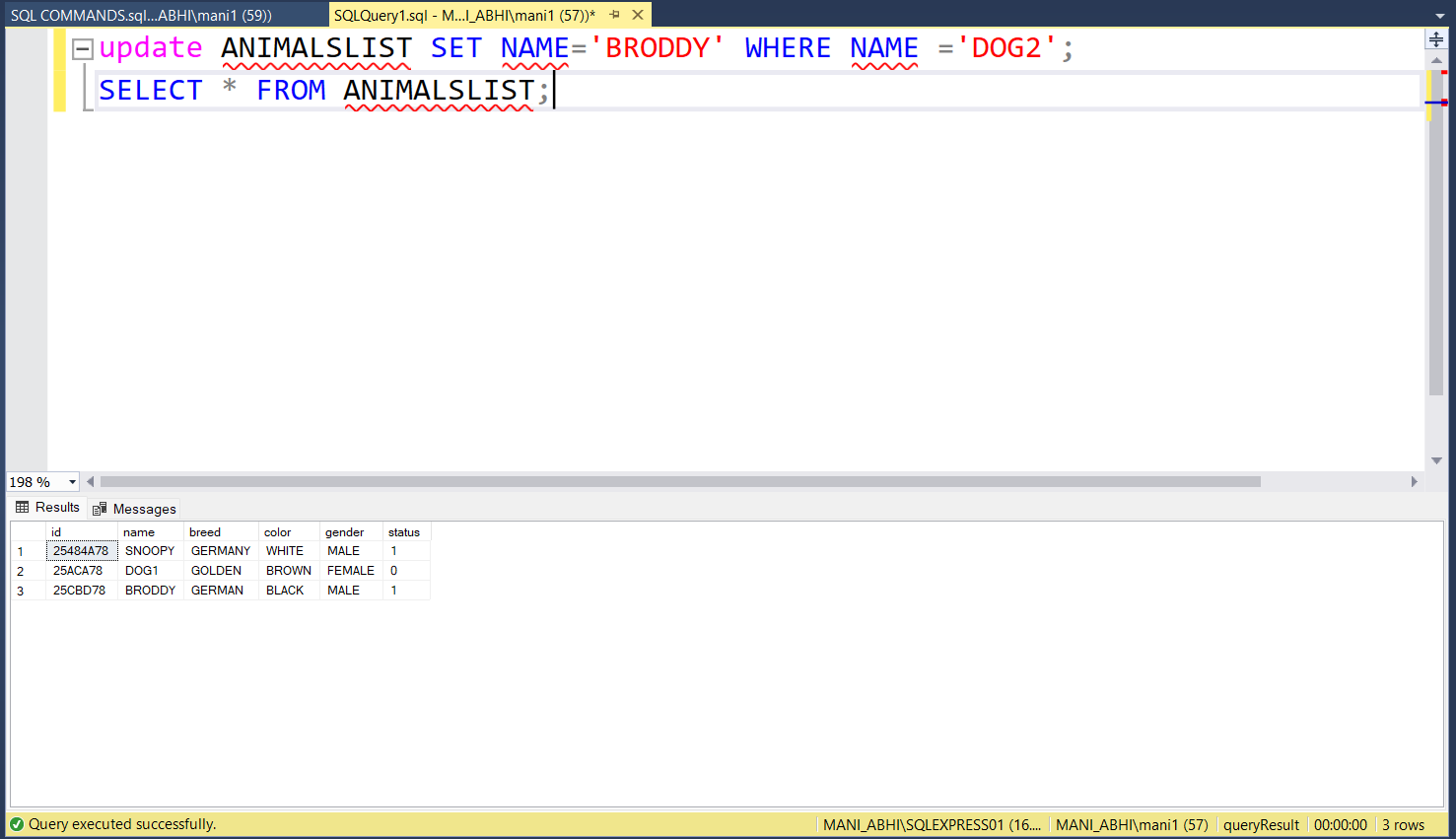
We can view the table using SELECT statement.

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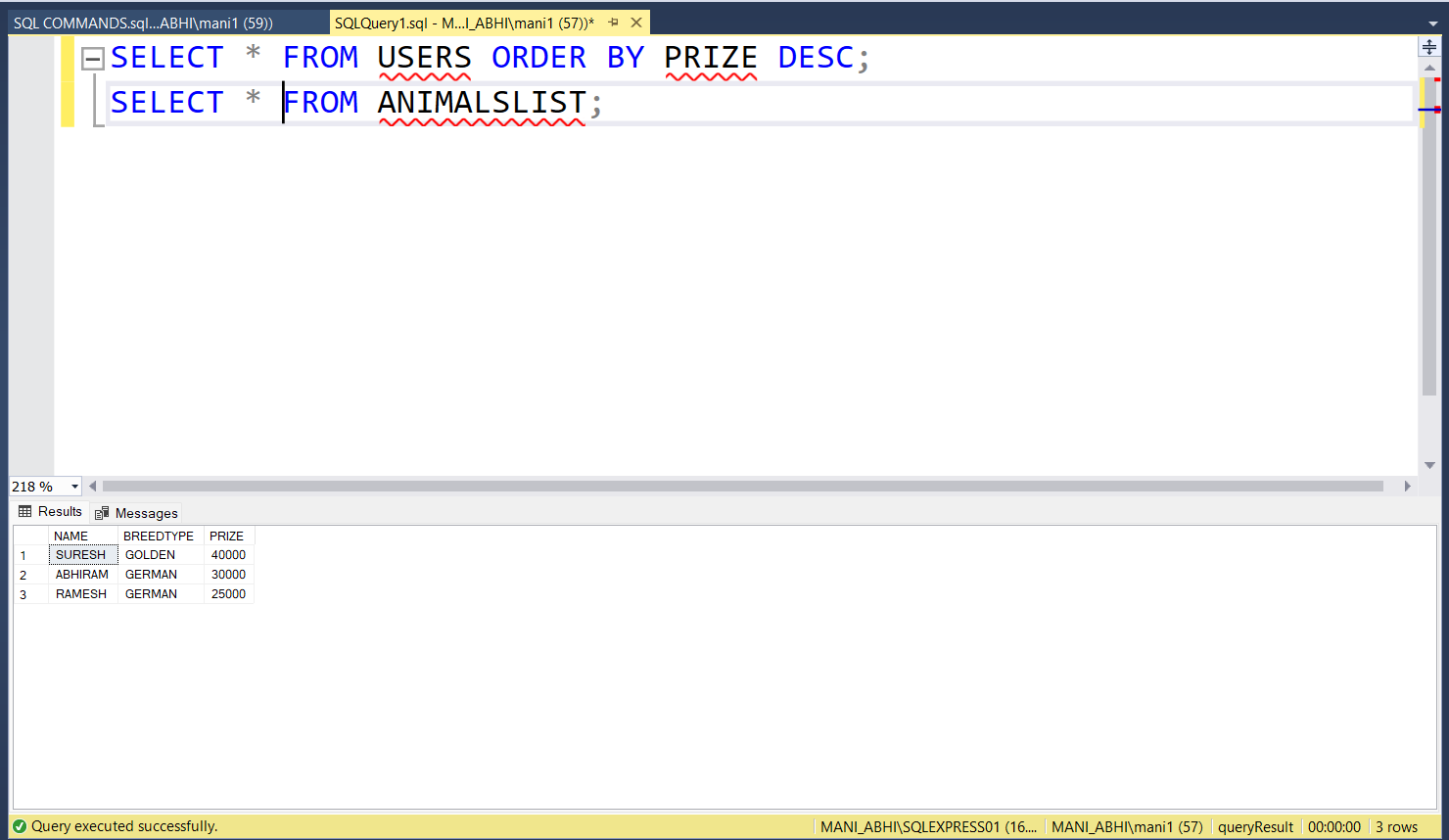
Displaying all the details from animal list table using WHERE clause.

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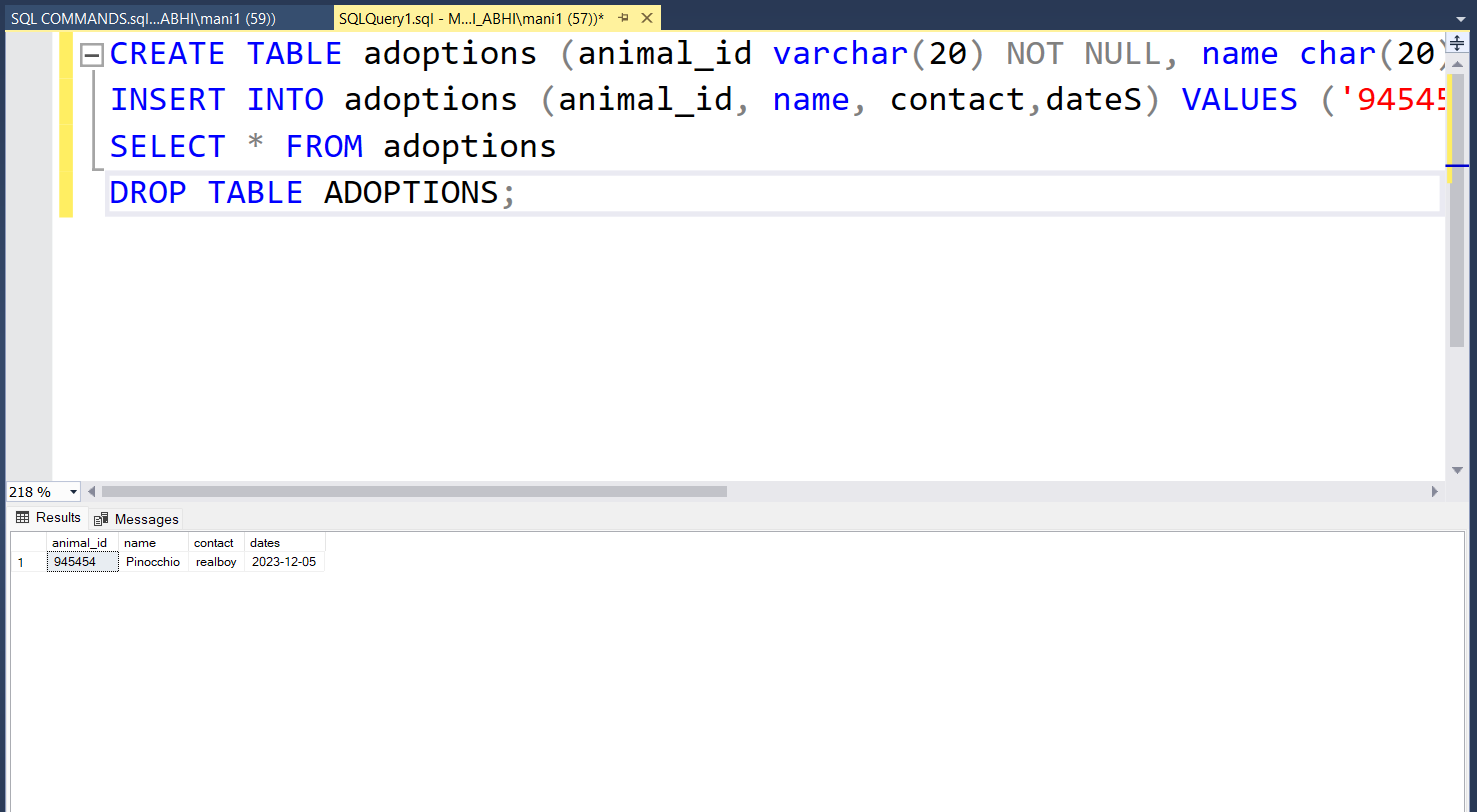
Updating the table using update statement and WHERE clause.

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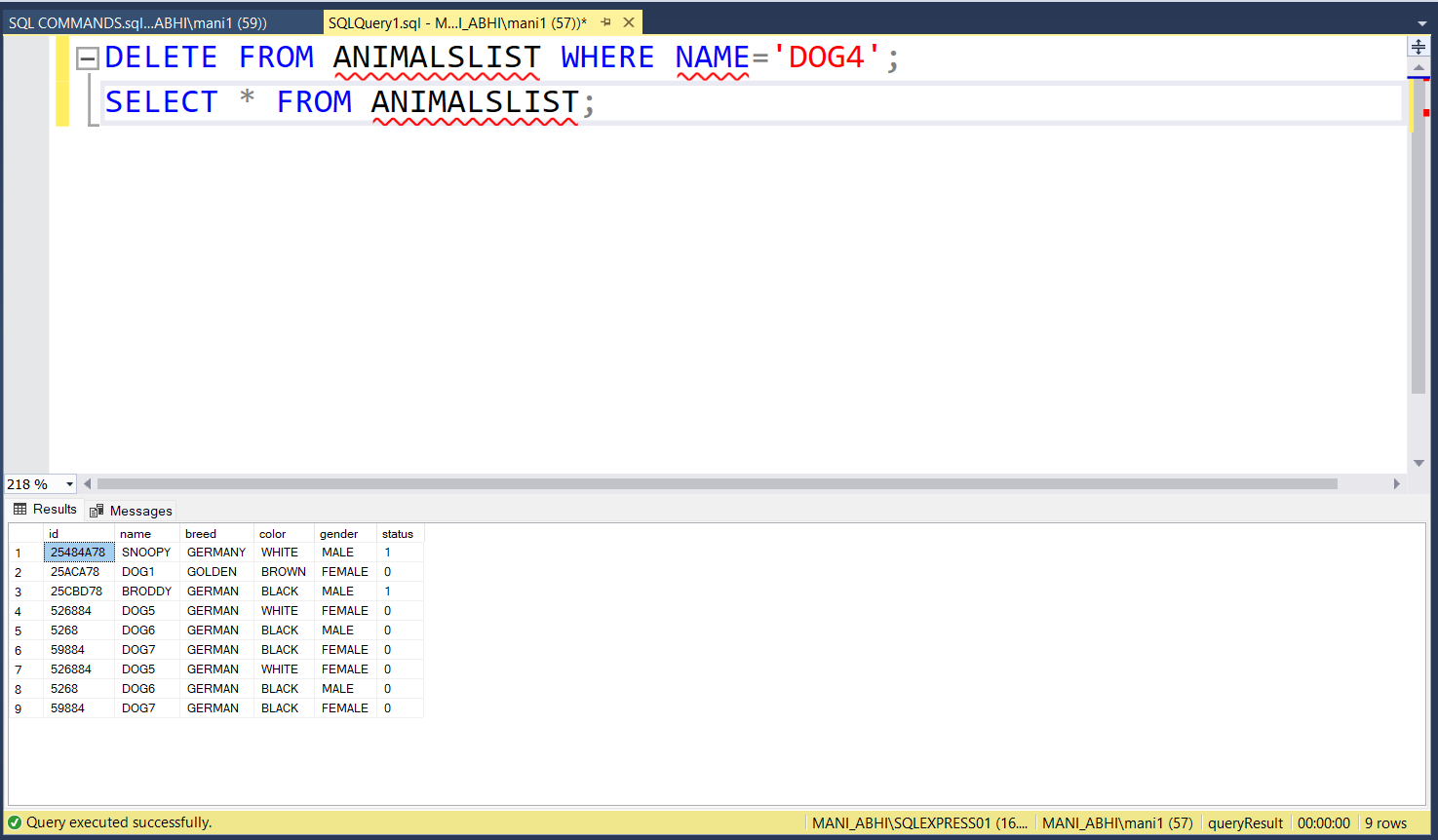
ORDER BY statement

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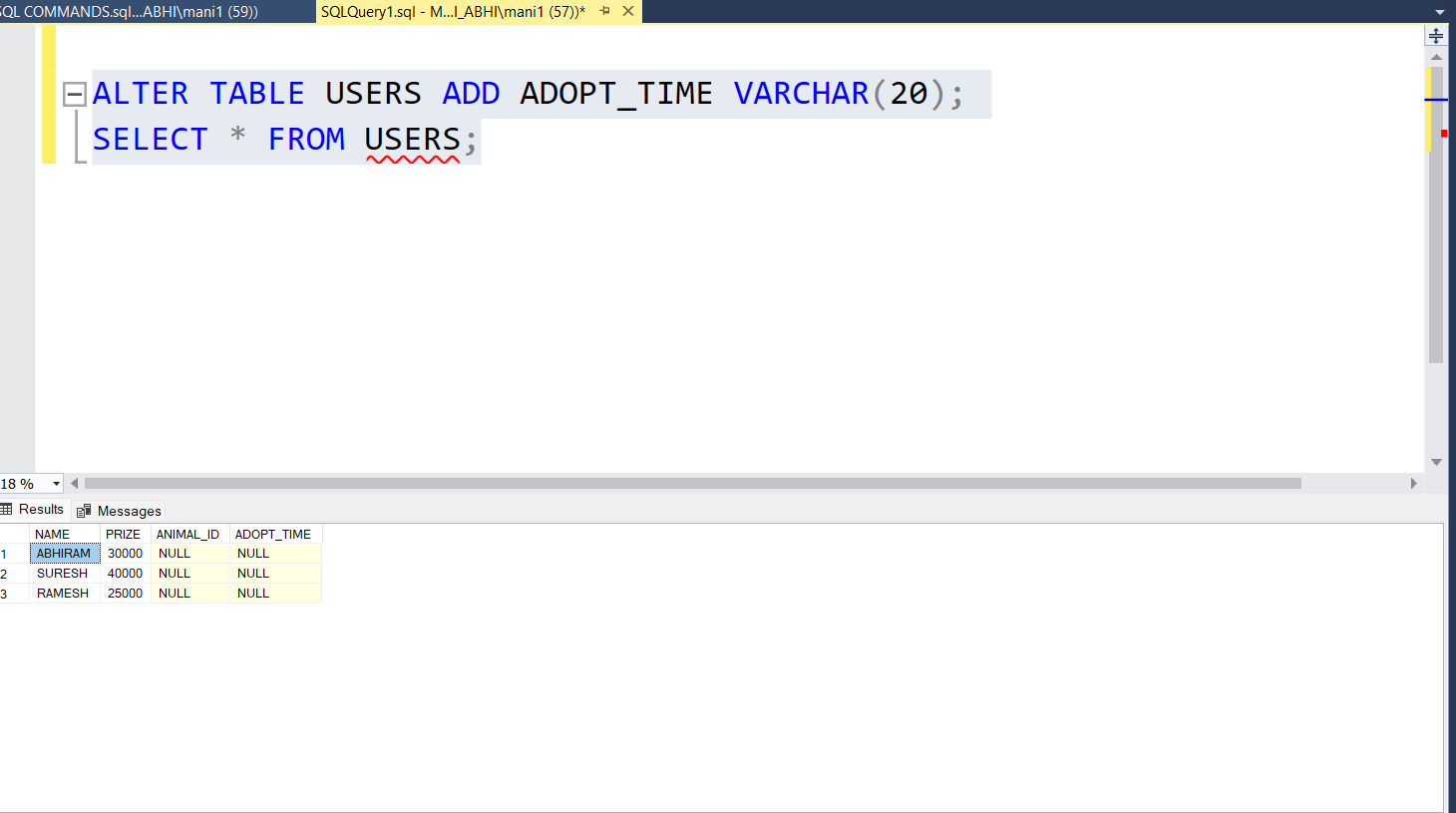
**DROP TABLE USING DROP STATEMENT**

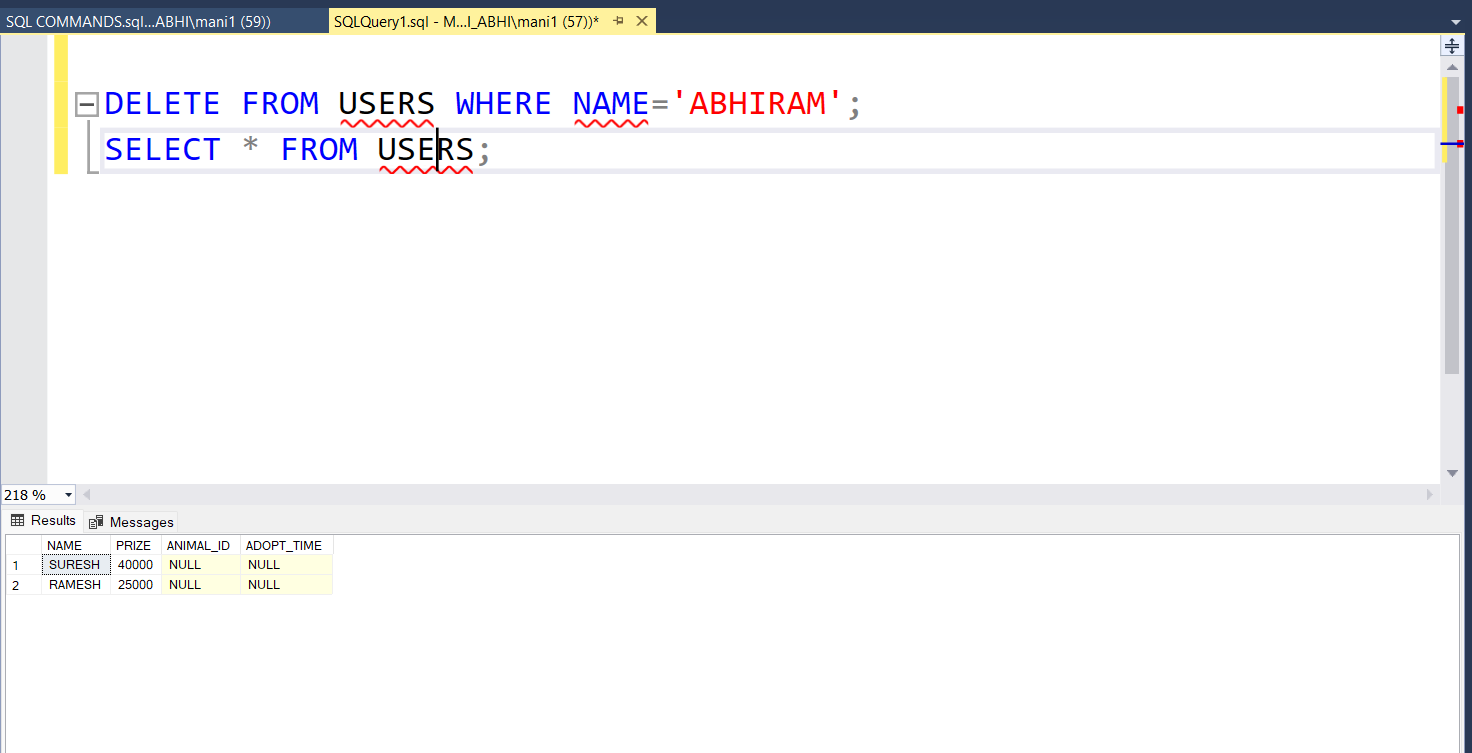
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**DELETED THE NAME VARIABLE USING DELETE AND WHERE STATEMENT**

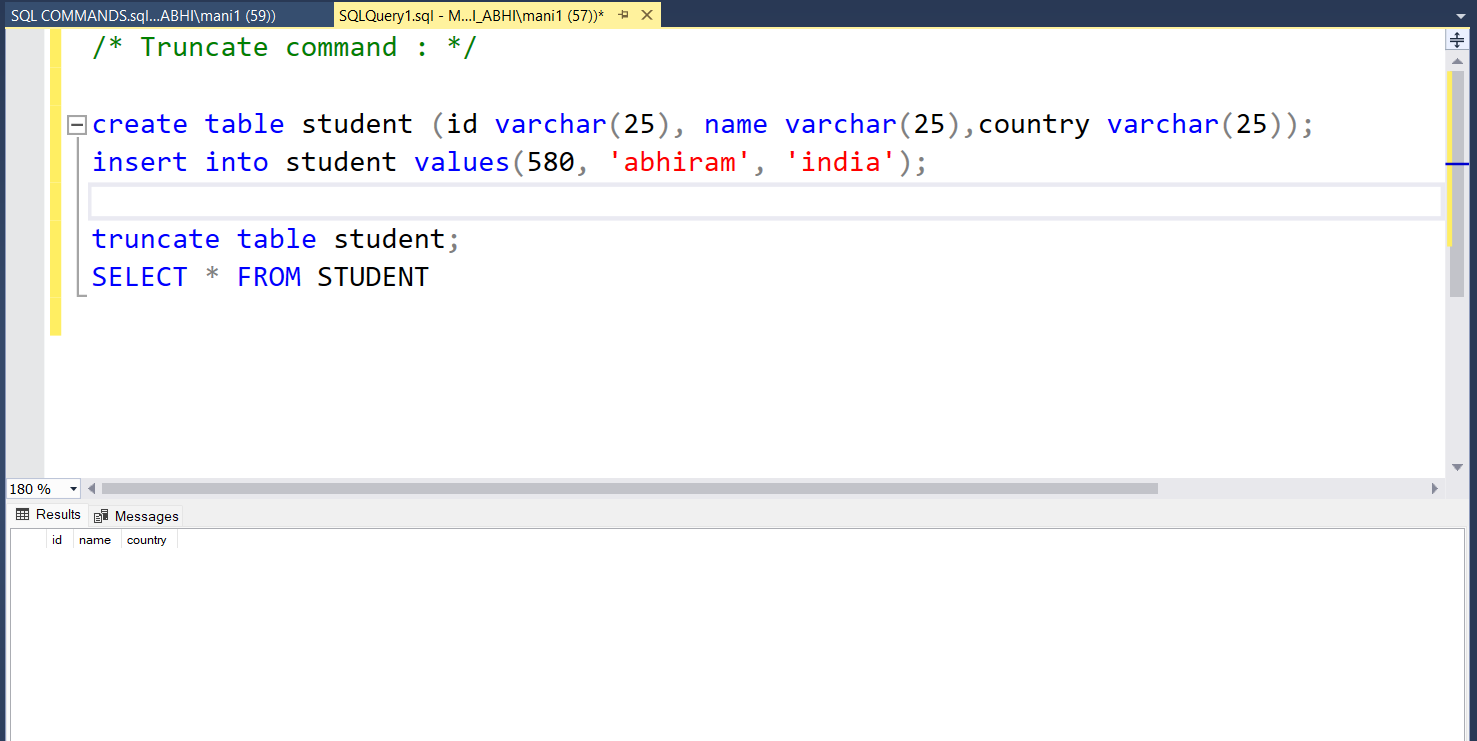
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**Altering table by adding new columns using ALTER statement**.

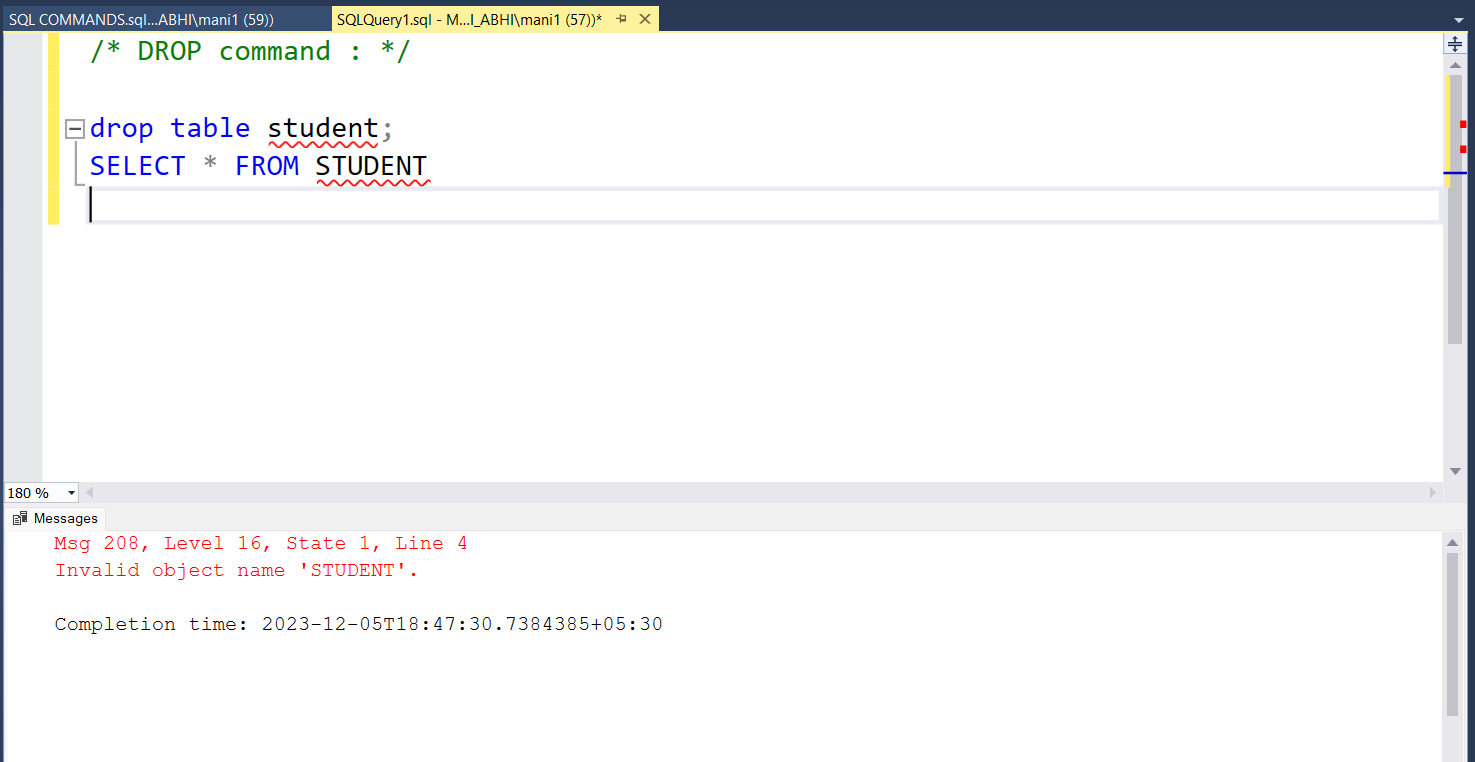
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Created a new table called student, and truncated it. It will delete all the data inside the STUDENT table.

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Drop table using DROP statement, it will delete entire table along with the data.

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