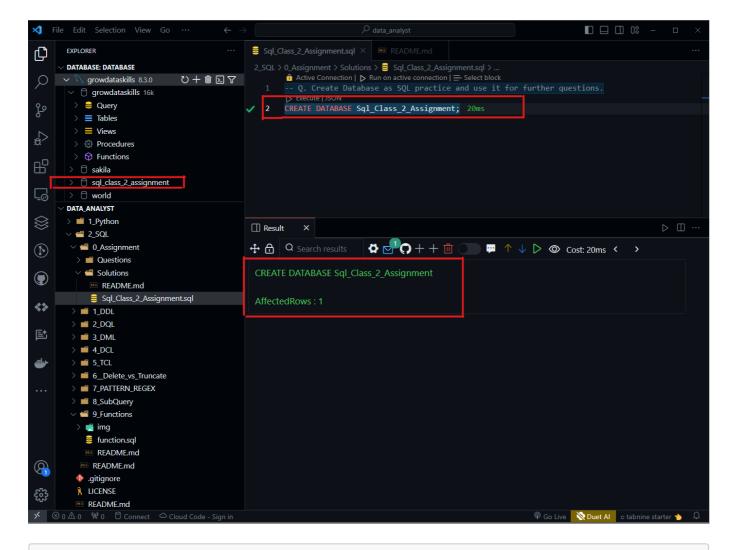
Q1. Create Database as SQL practice and use it for further questions.

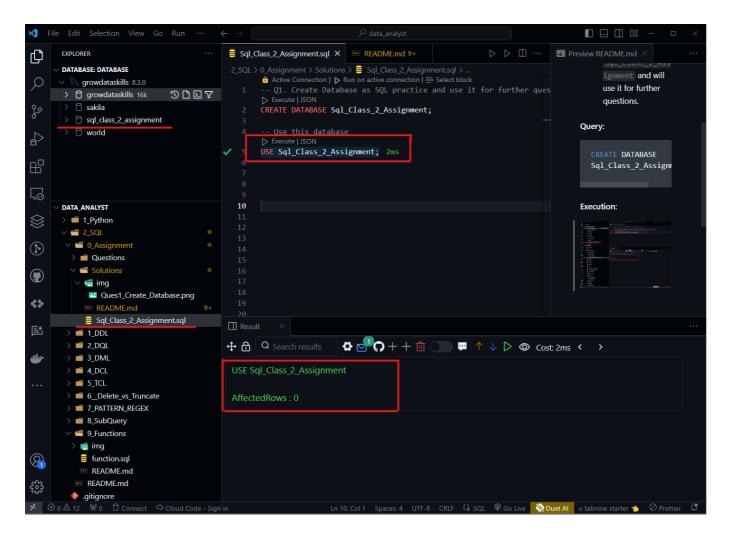
• Creating a database name Sql_Class_2_Assignment and will use it for further questions.

Query:

```
CREATE DATABASE Sql_Class_2_Assignment;
```



```
USE Sql_Class_2_Assignment;
```

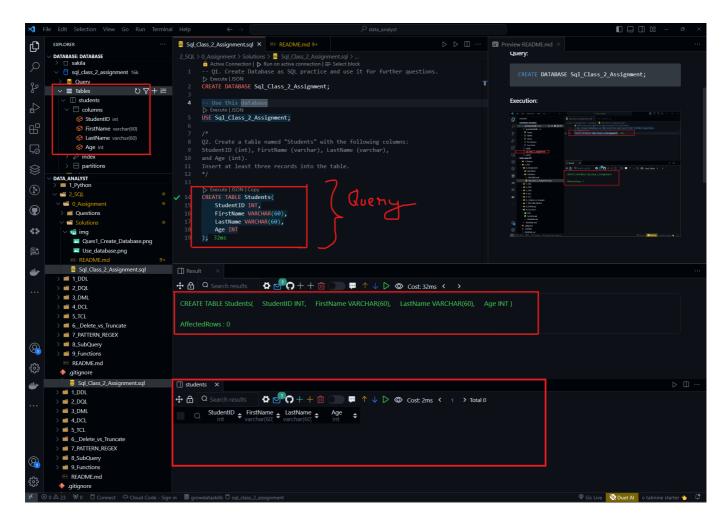


Q2. Create a table named "Students" with the following columns: StudentID (int), FirstName (varchar), LastName (varchar), and Age (int). Insert at least three records into the table.

• Creating a table named Students with the following columns: StudentID (int), FirstName (varchar), LastName (varchar), and Age (int)

Query:

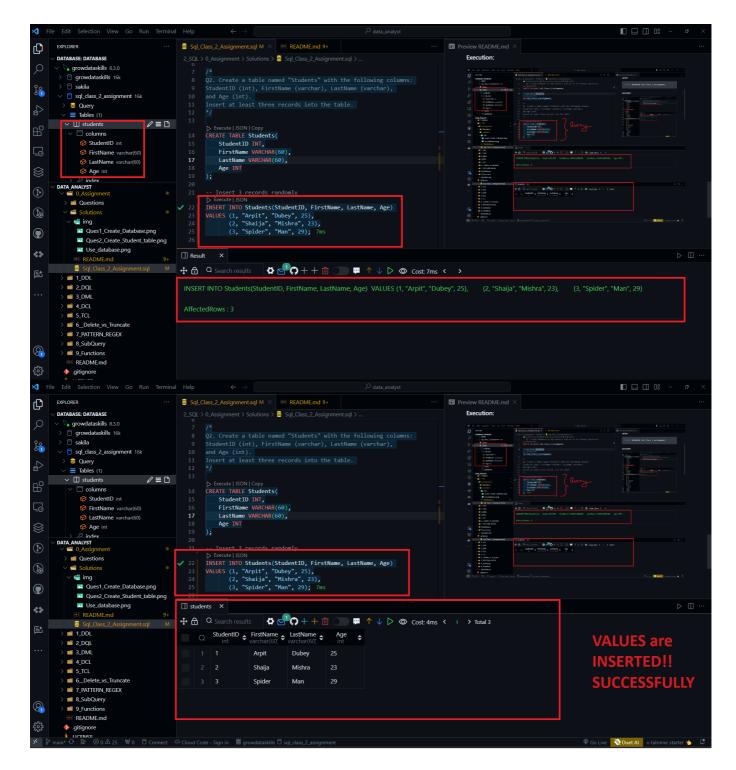
```
CREATE TABLE Students(
   StudentID INT,
   FirstName VARCHAR(60),
   LastName VARCHAR(60),
   Age INT
);
```



• Inserting 3 random records into the table Students

Query:

```
INSERT INTO Students(StudentID, FirstName, LastName, Age)
VALUES (1, "Arpit", "Dubey", 25),
        (2, "Shaija", "Mishra", 23),
        (3, "Spider", "Man", 29);
```



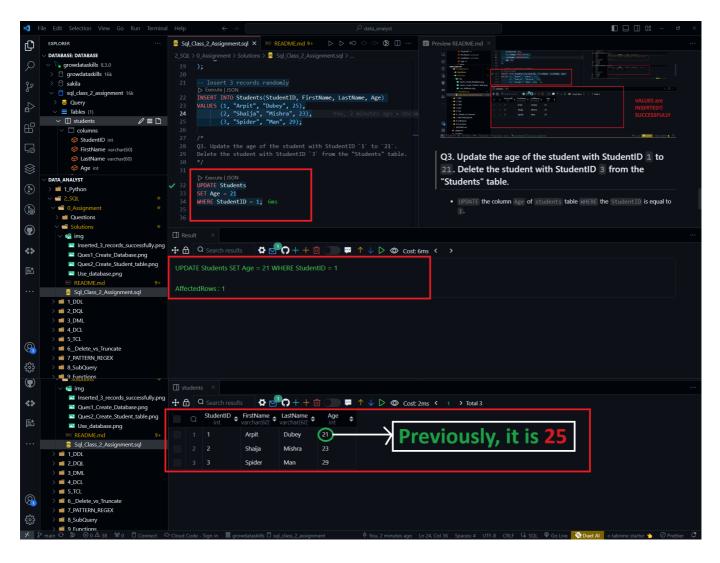
Q3. Update the age of the student with StudentID 1 to 21. Delete the student with StudentID 3 from the "Students" table.

• UPDATE the column Age of students table WHERE the StudentID is equal to 1.

Query:

```
UPDATE Students
SET Age = 21
WHERE StudentID = 1;
```

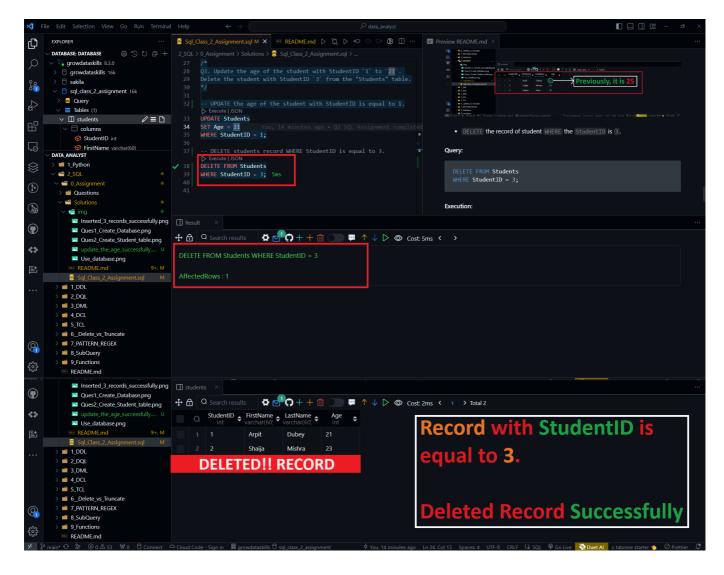
Execution:



• DELETE the record of student WHERE the StudentID is 3.

Query:

```
DELETE FROM Students
WHERE StudentID = 3;
```

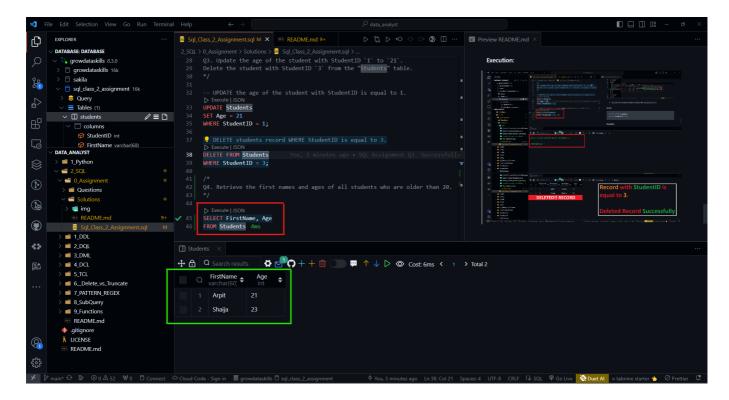


Q4. Retrieve the first names and ages of all students who are older than 20.

• Retrieving the FirstName and Age of all students without any condition.

Query:

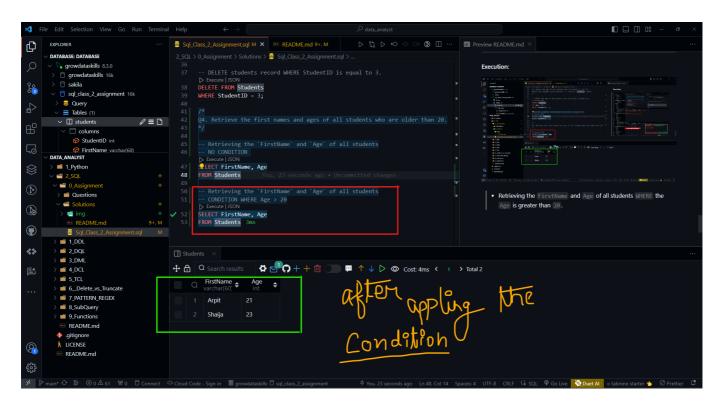
SELECT FirstName, Age
FROM Students



Retrieving the FirstName and Age of all students WHERE the Age is greater than 20..

Query:

```
SELECT FirstName, Age
FROM Students
WHERE Age > 20;
```



NOTE: To Perform more operation we required more values so I just inserted more values to the table.

Query:

```
INSERT INTO Students(StudentID, FirstName, LastName, Age)
VALUES (4, "Rahul", "Kumar", 12),
        (5, 'Alice', 'Smith', 25),
        (6, 'Bob', 'Johnson', 15),
        (7, 'Eva', 'Martinez', 16),
        (8, 'Hariharan', 'S', 26);
```

Execution:

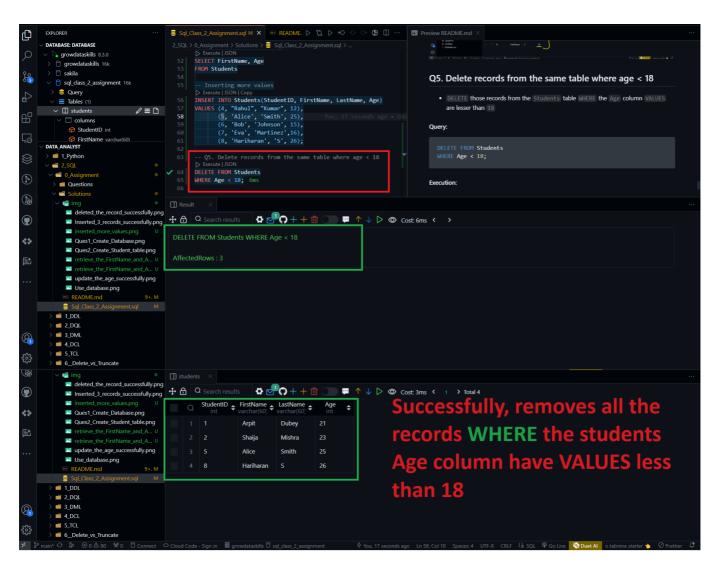


Q5. Delete records from the same table where age < 18

• DELETE those records from the Students table WHERE the Age column VALUES are lesser than 18

Query:

```
DELETE FROM Students
WHERE Age < 18;
```



Q6. Create a table named "Customers" with the following columns and constraints: CustomerID (int) as the primary key. FirstName (varchar) not null. LastName (varchar) not null. Email (varchar) unique. Age (int) check constraint to ensure age is greater than 18.

- CREATE a TABLE named it as Customers
- With columns such as CustomerID, FirstName, LastName, Email and, Age.
- Age columns must having a CHECK constraint where it ensures the Age will not be less than 18.

Query:

```
CREATE TABLE Customers(
    CustomerID INT PRIMARY KEY,
    FirstName VARCHAR(60) NOT NULL,
    LastName VARCHAR(60) NOT NULL,
    Email VARCHAR(80) UNIQUE,
    Age INT CHECK (Age > 18)
);
```

