



Lab Task No. 1

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Subject: Data base

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1. Create the Database
2. Create the Student Table:
3. Now, let's create a Student table with some basic columns.

Code:

```
CREATE DATABASE MyDatabase;
```

```
USE MyDatabase;
```

```
USE School;
```

```
CREATE TABLE Students (  
    StudentID INT PRIMARY KEY,  
    FirstName VARCHAR(50),  
    LastName VARCHAR(50),  
    DateOfBirth DATE,  
    EnrollmentDate DATE,  
    Gender CHAR(1), -- M for Male, F for Female  
    Major VARCHAR(100)  
);
```

```
INSERT INTO Students (StudentID, FirstName,  
    LastName, DateOfBirth, EnrollmentDate, Gender, Major)  
VALUES (2, 'hassan', 'toufeeq', '2005-08-13', '2024-09-  
14', 'M', 'Computer Science');  
select * from Students;
```

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'SCHEMAS' pane shows a tree view with 'mydatabase' expanded, containing 'Tables', 'Columns', 'Indexes', 'Foreign Keys', 'Triggers', 'Views', 'Stored Procedures', and 'Functions'. The 'Tables' folder is expanded, showing 'student' and 'students'. The 'Columns' folder is also expanded, showing 'StudentID', 'FirstName', 'LastName', 'DateOfBirth', 'EnrollmentDate', 'Gender', and 'Major'. The 'Tables' folder is selected, and the 'Columns' folder is expanded, showing the columns of the 'Students' table.

The main pane shows the SQL script for creating the 'Students' table and inserting data. The script is as follows:

```

2 • CREATE DATABASE MyDatabase;
3
4 • USE MyDatabase;
5
6 • USE School;
7 • CREATE TABLE Students (
8     StudentID INT PRIMARY KEY,
9     FirstName VARCHAR(50),
10    LastName VARCHAR(50),
11    DateOfBirth DATE,
12    EnrollmentDate DATE,
13    Gender CHAR(1), -- M for Male, F for Female
14    Major VARCHAR(100)
15 );
16
17 • INSERT INTO Students (StudentID, FirstName, LastName, DateOfBirth, EnrollmentDate, Gender, Major)
18 VALUES (2, 'hassan', 'toufeeq', '2005-08-13', '2024-09-14', 'M', 'Computer Science');
19 • select * from Students;

```

The 'Output' pane at the bottom shows the results of the execution. It contains a table with the following data:

#	Time	Action	Message
1	07:15:00	select * from Students LIMIT 0, 1000	2 row(s) returned
2	07:15:32	select * from Students LIMIT 0, 1000	2 row(s) returned

Explanation of the Table Structure:

- **StudentID**: Integer, primary key that uniquely identifies each student.
- **FirstName**: A string that stores the student's first name (up to 50 characters).
- **LastName**: A string that stores the student's last name (up to 50 characters).
- **DateOfBirth**: The student's date of birth.
- **EnrollmentDate**: The date the student enrolled.

