

Output Screenshots

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure. The main query window shows the following SQL script:

```
1 CREATE DATABASE SCHOOLDB
2
3 USE SCHOOLDB
4
5 CREATE TABLE Student (
6     StudentID INT PRIMARY KEY,
7     FirstName VARCHAR(50),
8     LastName VARCHAR(50),
9     DateOfBirth DATE,
10    ClassID INT
11 );
12
13
14 INSERT INTO Student (StudentID, FirstName, LastName, DateOfBirth, ClassID)
15 VALUES
16     (1, 'Nagashree', 'KS', '2005-03-15', 1),
17     (2, 'Manvi', 'S', '2006-07-10', 2),
18     (3, 'Appu', 'J', '2005-09-20', 1),
19     (4, 'Vijay', 'M', '2007-01-25', 3),
20     (5, 'Samantha', 'V', '2006-11-05', 2);
```

The Results pane shows the data inserted into the Student table:

StudentID	FirstName	LastName	DateOfBirth	ClassID
1	Nagashree	KS	2005-03-15	1
2	Manvi	S	2006-07-10	2
3	Appu	J	2005-09-20	1
4	Vijay	M	2007-01-25	3
5	Samantha	V	2006-11-05	2

The status bar at the bottom indicates "Query executed successfully." and "5 rows".

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure. The main query window shows the following SQL script:

```
28 CREATE TABLE Subjects (
29     SubjectID INT PRIMARY KEY,
30     SubjectName VARCHAR(50)
31 );
32
33
34 INSERT INTO Subjects (SubjectID, SubjectName)
35 VALUES
36     (1, 'Mathematics'),
37     (2, 'Science'),
38     (3, 'History'),
39     (4, 'English'),
40     (5, 'Computer Science');
41
42 SELECT * FROM Subjects
43
44
45 CREATE TABLE Classes (
```

The Results pane shows the data inserted into the Subjects table:

SubjectID	SubjectName
1	Mathematics
2	Science
3	History
4	English
5	Computer Science

The status bar at the bottom indicates "Query executed successfully." and "5 rows".

SQLQuery1.sql - SUNNYLAPPY\SQLEXPRESS.SCHOOLDB (SUNNYLAPPY\Admin (76)) - Microsoft SQL Server Management Studio

Object Explorer

- Connect
- SUNNYLAPPY\SQLEXPRESS (SQL Server)
- Databases
 - System Databases
 - master
 - model
 - msdb
 - tempdb
 - Database Snapshots
 - Assignment
 - Northwind
 - pubs
 - Security
 - Server Objects
 - Replication
 - Management
 - XEvent Profiler

SQLQuery1.sql - S...YLAPPY\Admin (76))

```
43
44
45 CREATE TABLE Classes (
46     ClassID INT PRIMARY KEY,
47     ClassName VARCHAR(20)
48 );
49
50
51 INSERT INTO Classes (ClassID, ClassName)
52 VALUES
53     (1, 'Class 01'),
54     (2, 'Class 02'),
55     (3, 'Class 03'),
56     (4, 'Class 04'),
57     (5, 'Class 05');
58
59
60 SELECT * FROM Classes
```

Results

	ClassID	ClassName
1	1	Class 01
2	2	Class 02
3	3	Class 03
4	4	Class 04
5	5	Class 05

Query executed successfully.

SUNNYLAPPY\SQLEXPRESS (16.0... SUNNYLAPPY\Admin (76) SCHOOLDB 00:00:00 5 rows

Ready 26°C Partly sunny

```
CREATE NONCLUSTERED INDEX IX_Student_ClassID ON Student (ClassID);
```

```
CREATE NONCLUSTERED INDEX IX_Student_LastName ON Student (LastName);
```

SQLQuery1.sql - SUNNYLAPPY\SQLEXPRESS.SCHOOLDB (SUNNYLAPPY\Admin (76)) - Microsoft SQL Server Management Studio

Object Explorer

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SQLQuery1.sql - S...YLAPPY\Admin (76))

```
61
62
63
64 CREATE NONCLUSTERED INDEX IX_Student_ClassID ON Student (ClassID);
65
66
67 CREATE NONCLUSTERED INDEX IX_Student_LastName ON Student (LastName);
68
69
70 CREATE NONCLUSTERED INDEX IX_Subjects_SubjectName ON Subjects (SubjectName);
71
72
73 CREATE NONCLUSTERED INDEX IX_Classes_ClassName ON Classes (ClassName);
```

Results

	StudentID	FirstName	LastName	DateOfBirth	ClassID
1	1	Nagashree	KS	2005-03-15	1
2	2	Manvi	S	2006-07-10	2
3	3	Appu	J	2005-09-20	1
4	4	Vijay	M	2007-01-25	3
5	5	Samantha	V	2006-11-05	2

Query executed successfully.

SUNNYLAPPY\SQLEXPRESS (16.0... SUNNYLAPPY\Admin (76) SCHOOLDB 00:00:00 5 rows

Ready 26°C Sunny

CREATE NONCLUSTERED INDEX IX_Subjects_SubjectName ON Subjects (SubjectName);

The screenshot shows the Microsoft SQL Server Management Studio interface. The query window contains the following SQL code:

```
58  
59  
60 SELECT * FROM Classes  
61  
62  
63  
64 CREATE NONCLUSTERED INDEX IX_Student_ClassID ON Student (ClassID);  
65  
66  
67 CREATE NONCLUSTERED INDEX IX_Student_LastName ON Student (LastName);  
68  
69  
70 CREATE NONCLUSTERED INDEX IX_Subjects_SubjectName ON Subjects (SubjectName);  
71  
72  
73 CREATE NONCLUSTERED INDEX IX_Classes_ClassName ON Classes (ClassName);
```

The Results window displays the following data from the Subjects table:

SubjectID	SubjectName
5	Computer Science
4	English
3	History
1	Mathematics
2	Science

The status bar at the bottom indicates: SUNNYLAPPY\SQLEXPRESS (16.0...) | SUNNYLAPPY\Admin (76) | SCHOOLDB | 00:00:00 | 5 rows

CREATE NONCLUSTERED INDEX IX_Classes_ClassName ON Classes (ClassName);

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73 CREATE NONCLUSTERED INDEX IX_Classes_ClassName ON Classes (ClassName);
```

The Results window displays the following data from the Classes table:

ClassID	ClassName
1	Class 01
2	Class 02
3	Class 03
4	Class 04
5	Class 05

The status bar at the bottom indicates: SUNNYLAPPY\SQLEXPRESS (16.0...) | SUNNYLAPPY\Admin (76) | SCHOOLDB | 00:00:00 | 5 rows