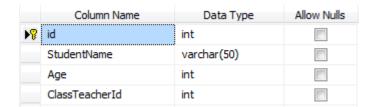
#### **Context:**

This document contains assignments to be completed as part of the hands-on for the ADO.NET day1 topic.

### Assignment 1: Fetching data through datareader

**Estimated time: 15 Mins** 

**Problem description:** Table tblStudent is given in below diagram:



Insert some data into the table.

Write below code to retrieve data from the table:

- 1. Create connection string for the database
- 2. Create connection object, providing the connection string
- 3. Create sql query in a string variable to retrieve records.
- 4. Create SqlCommand object. Assign sql query to command text property. Assign connection object to connection property of SqlCommand object.
- 5. Open connection object.
- 6. Define SqlDataReader object. Call ExecuteReader method of command object and assign it to SqlDataReader object.
- 7. Read the datareader till Read() method returns true
- 8. Close connection object. Close reader object.
- 9. Display the data on console

# **Assignment 2: Using SqlCommand properties**

**Estimated time: 15 Mins** 

**Problem description:** Refer Table tblStudent given for previous question:

Write a program to get total age of all students

Hint: Use executeScalar method of SqlCommand object

Write code to perform insert, update, delete operations on the table. Display number of rows affected because of each operations.

Hint: Use executeNonQuery method of SqlCommand object

### **Assignment 3: Executing stored procedure**

**Estimated time: 15 Mins** 

**Problem description:** Create a stored procedure 'DeleteRecords' such that:

- The procedure takes studentname, age as input.
- Fire sql command to get the number of rows with the student name. Returns 'numberOfRows' as output parameter.
- Deletes the records with same student name and age.

Call the stored procedure using ADO.NET objects

Display the number of rows returned by the procedure on the console.

# **Assignment 4: Disconnected mode to read data**

**Estimated time: 15 Mins** 

**Problem description:** Use disconnected mode to read data from tblStudent. Traverse

through dataset and display data on the console.

# **Assignment 5: Disconnected mode for data manipulation**

**Estimated time: 15 Mins** 

**Problem description:** Use disconnected mode to insert data to tblStudent.

Use disconnected mode to update, delete data from tblStudent.

1) For first row of the dataset

2) For a row with name as "John"

## **Summary of assignments:**

#### You have learnt

- Using connected mode to read data from a database table
- How to perform DML operations in connected mode
- How to execute procedure in connected mode
- How to read data from a table in disconnected mode
- How to perform DML operations in disconnected mode