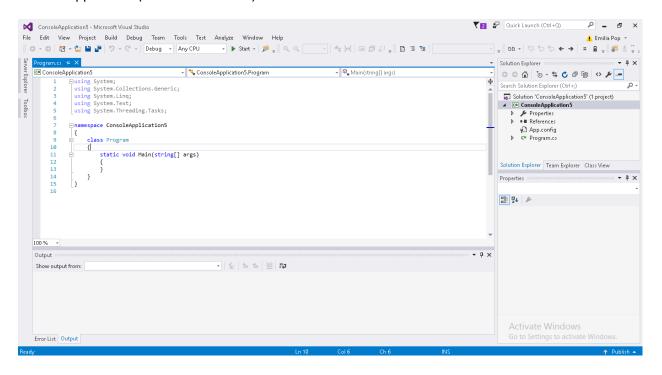
Console Application - example

```
create database Music_DB
                                                               Results
                                                                          🚹 Messages
use Music_DB
                                                                    RCid
                                                                          Name
                                                                                          budget
                                                                    1
                                                               1
                                                                          Record Company 1
                                                                                           15.8
                                                               2
                                                                                          15.8
                                                                          Record Company 2
create table RecordCompany(
RCid int primary key identity(1,1),
Name varchar(50)
)
Alter table RecordCompany
add budget float
select * from RecordCompany
insert into RecordCompany values ('Record Company 1'),
('Record Company 2')
update RecordCompany
set budget=15.8
select * from RecordCompany
```

Console Application (from Visual Studio)



Program.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
```

```
using System.Threading.Tasks;
using System.Data.SqlClient;
namespace ConsoleApplication5
{
    class Program
        static void Main(string[] args)
            Console.BackgroundColor = ConsoleColor.Green;
            Console.ForegroundColor = ConsoleColor.Blue;
            string connString = @"server=DESKTOP-ATJN5FL\SQLEXPRESS; Database=Music DB;
Integrated Security=true";
            try
            {
                using (SqlConnection connection = new SqlConnection(connString))
                    connection.Open();
                    Console.WriteLine($"The state of the connection: {connection.State}");
                    Console.WriteLine();
                    // SELECT
                    Console.WriteLine("SELECT: RecordCompany table: Name, budget");
                    SqlCommand selectCommand = new SqlCommand("select Name, budget from
RecordCompany", connection);
                    SqlDataReader reader = selectCommand.ExecuteReader();
                    //create SqlDataReader!!
                    //SqlDataReader block the connection as long as it is open => so, it must be
closed
                    while (reader.Read())
                    {
                        for (int i = 0; i < reader.FieldCount; i++)</pre>
                            Console.Write(reader[i] + ",");
                        Console.WriteLine();
                    reader.Close();
                    connection.Close();
                    Console.WriteLine();
                    // INSERT
                    connection.Open();
                    String Name = "Zone Studio";
                    float budget = 400.85F;
                    SqlCommand insertCommand = new SqlCommand("insert into RecordCompany(Name,
budget) values (@Name,@budget)", connection);
                    insertCommand.Parameters.AddWithValue("@Name", Name);
                    insertCommand.Parameters.AddWithValue("@budget", budget);
                    int rows = insertCommand.ExecuteNonQuery();
                    Console.WriteLine($"INSERT: The number of rows inserted is: {rows}");
                    connection.Close();
                    // Select again after insert :)
                    connection.Open();
                    reader = selectCommand.ExecuteReader();
```

```
while (reader.Read())
                        for (int i = 0; i < reader.FieldCount; i++)</pre>
                        {
                            Console.Write(reader[i] + ",");
                        }
                        Console.WriteLine();
                    }
                    reader.Close();
                    connection.Close();
                    Console.WriteLine();
                    // UPDATE
                    connection.Open();
                    SqlCommand updateCommand = new SqlCommand("update RecordCompany set
Name=@Name New, budget=@budget where Name=@Name", connection);
                    String Name New = "Studio UPDATED";
                    float budget New = 550.0F;
                    updateCommand.Parameters.AddWithValue("@Name_New", Name_New);
                    updateCommand.Parameters.AddWithValue("@budget", budget_New);
                    updateCommand.Parameters.AddWithValue("@Name", Name);
                    int rows2 = updateCommand.ExecuteNonQuery();
                    Console.WriteLine($"UPDATE: The number of affected rows is: {rows2}");
                    connection.Close();
                    // Select again after Update :)
                    connection.Open();
                    reader = selectCommand.ExecuteReader();
                    while (reader.Read())
                    {
                        for (int i = 0; i < reader.FieldCount; i++)</pre>
                            Console.Write(reader[i] + ",");
                        Console.WriteLine();
                    reader.Close();
                    connection.Close();
                    Console.WriteLine();
                    //DELETE
                    connection.Open();
                    SqlCommand deleteCommand = new SqlCommand("delete from RecordCompany where
Name=@Name", connection);
                    String Name_Deleted = "Studio Updated";
                    deleteCommand.Parameters.AddWithValue("@Name", Name_Deleted);
                    int rows3 = deleteCommand.ExecuteNonQuery();
                    Console.WriteLine($"DELETE: The number of deleted rows is: {rows3}");
                    connection.Close();
                    // Select again after Delete :)
                    connection.Open();
                    reader = selectCommand.ExecuteReader();
                    while (reader.Read())
                    {
                        for (int i = 0; i < reader.FieldCount; i++)</pre>
                            Console.Write(reader[i] + ",");
```

```
Console.WriteLine();
}
reader.Close();
connection.Close();
Console.WriteLine();

Console.ReadKey();
}

catch (Exception ex)
{
    Console.ForegroundColor = ConsoleColor.Red;
    Console.WriteLine($"The error message is: \n {ex.Message}");
    Console.ReadKey();
}

}

}
}
```

