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## VB.NET Tutorials Create Connections to SQLite Connection String

Unknown · August 07, 2016

**VB.NET & SQLite Tutorials** : How to create a connection to SQLite Embedded database using **SQLite ADO.NET data** , **SQLite 3 ODBC driver** , **.NET Framework** as a Data Provider in vb.net? SQLite can handle a connection from an application like .Net Apps using ADO.NET, ODBC as a Data Provider.

Please read : [How to Install SQLite on Windows, Create Database, Table, Columns?](#)

You can follow link above to Download and install SQLite Embedded Database on your computer, If already did, just create your first database using SQLite and we will make a connection from vb.net simple application.

*How to create Database, Columns, Field, View, Trigger in SQLite?* here simple applications will help you to Configure your SQLite Embedded Database, "SQL Maestro Group" download from here <https://www.sqlmaestro.com/> or use SQLite Administrator, Download Here <http://sqliteadmin.orbmu2k.de/>

SQL Maestro Group offers complete database management and web development tools for all the most popular DBMS providing the highest performance, scalability and reliability to meet the requirements of today's database applications.

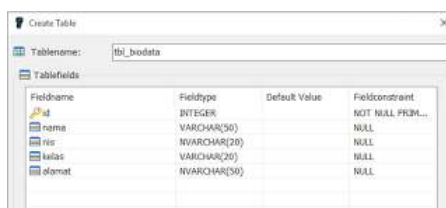
### Create New Project (SQLite Connection)

Open your visual studio and create new project and rename it with "SQLiteConnection", now after created, leave your project for a moment, we will create a SQLite database for our project.

### Create SQLite Database (Columns, Field, Value)

On this tutorial, we will create SQLite database using SQLite Administrator, just Open your SQLite Administrator and please create new Databases using new name "NewInSQLite" and Save it into your current project, on this tutorial i'll save my new database in : "C:\Users\b0x\Documents\Visual Studio 2015\Projects\NewApp\NewApp\bin\Debug".

Now, we will create Table names for our SQLite Database (**tbl\_biodata**) to our new database "NewInSQLite" and add more field to your table and click **CREATE**, see images below :



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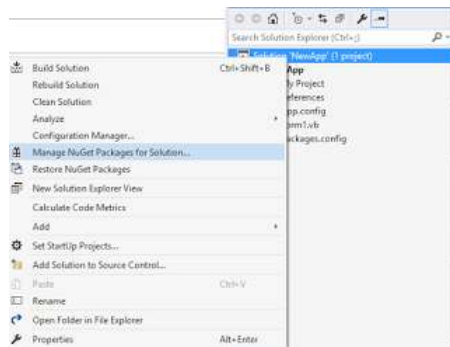
Or you can use this SQL query to crate "tbl\_biodata"

```
CREATE TABLE [tbl_biodata] (
[id] INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
[nama] VARCHAR(50) NULL,
[nis] NVARCHAR(20) NULL,
[kelas] VARCHAR(20) NULL,
[alamat] NVARCHAR(50) NULL
)
```

## Source Code Create Connections to SQLite Database

After you already have a SQLite Database, back to our project in visual studio, we will create a connection to our new database.

On the Form1.vb, we must add SQLite Library to our project, we can use Nuget Packages to declare SQLite library, Right click on you **project solutions > Manage NuGet Packages for Solutions >** and search for the "SQLite", than install it. see image below :



If you have finished, just write all source code below to crate connection to SQLite Embedded database using VB.NET

```
Imports System.Data.SQLite ' using SQLite Namespaces
Public Class Form1
    Dim connect As SQLiteConnection ' declare the connection
```

```

Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Lc
    connection() ' call connection Functions
    connect.Close() ' close connection
End Sub
Sub connection()
    Try
        connect = New SQLiteConnection("Data Source=hc-kr.db") ' Connectio
        If connect.State = ConnectionState.Closed Then
            connect.Open()
            MsgBox("Connection Success!", MsgBoxStyle.Information, "Inform
        End If
    Catch ex As Exception
        MsgBox("Failed to connect to SQLite Database", MsgBoxStyle.Informa
    End Try
End Sub
End Class

```

## More String connection to SQLite database :

You can use costum string connection to our connection, see it below :

### SQLite Connections with .NET Provider

#### Basic

```
Connection = "Data Source=c:\mydb.db;Version=3;"
```

#### In-Memory Database

```
Connection = "Data Source=:memory::Version=3;New=True;"
```

#### Using UTF16

```
Connection = "Data Source=c:\mydb.db;Version=3;UseUTF16Encoding=True;"
```

#### With password

```
Connection = "Data Source=c:\mydb.db;Version=3;Password=myPassword;"
```

### Connect SQLite using ADO.NET

#### Standard

```
Connection = "Data Source=c:\mydb.db;Version=3;"
```

#### SQLite Version 2.x

```
Data Source=c:\mydb.db;Version=2;"
```

#### Create a New Database

```
Connection = "Data Source=c:\mydb.db;Version=3;New=True;"
```

## Using Compression

```
Connection = "Data Source=c:\mydb.db;Version=3;Compress=True;"
```

## Connection to SQLite using ODBC Driver

```
Connection = "DRIVER=SQLite3 ODBC Driver;Database=c:\mydb.db;LongNames=0;Timec  
SyncPragma=NORMAL;StepAPI=0;"
```

Download SQLite Connection full source code here <https://www.dropbox.com/s/lmh1z8rtc67295w/hc-kr-com-sqlite-connect.zip?dl=0>

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