

LocalDB

.NET Control Programmer's guide

index

CreateDB().....	page 3.
DeleteDB().....	page 3.
OpenDB().....	page 4.
CloseDB().....	page 4.
GetLastError().....	page 5.
ExecuteQuery().....	page 5.
GetFieldCount().....	page 6.
GetFieldName().....	page 6.
GetRowCount().....	page 7.
GetData().....	page 7.

function

int CreateDB(string FullPath)

function description

Use this function to create a new database.

parameters

[in] FullPath full path to the database file, i.e. c:\\test.db

return value

0 when everything went ok
not 0 when an error occurred. Get the error in textual form by calling
 GetLastError()

VB.NET example of usage

```
Private Sub fnAddMessage(ByVal str As String)
    Dim MyCrLf As String = ChrW(13) + ChrW(10)
    TextBox1.Text = TextBox1.Text + str + MyCrLf
End Sub

Dim nRet As Integer
nRet = LocalDBControlPPC1.CreateDB("\\test.db")
If nRet = 0 Then
    fnAddMessage("DB created successfully")
Else
    fnAddMessage(LocalDBControlPPC1.GetLastError())
End If
```

function

int DeleteDB(string FullPath)

function description

Use this function to delete a database file

parameters

[in] FullPath full path to the database file, i.e. c:\\test.db

return value

0 when everything went ok
not 0 when an error occurred. Get the error in textual form by calling
 GetLastError()

VB.NET example of usage

```
Dim nRet As Integer
nRet = LocalDBControlPPC1.DeleteDB("\\test.db")
If nRet = 0 Then
    fnAddMessage("DB deleted successfully")
Else
    fnAddMessage(LocalDBControlPPC1.GetLastError())
End If
```

function

```
int OpenDB(string FullPath)
```

function description

Use this function to open a database. The database file must exist.

parameters

[in] FullPath full path to the database file, i.e. c:\\test.db

return value

0 when everything went ok
not 0 when an error occurred. Get the error in textual form by calling
 GetLastError()

VB.NET example of usage

```
Dim nRet As Integer  
nRet = LocalDBControlPPC1.OpenDB("\\test.db")  
If nRet = 0 Then  
    fnAddMessage("DB opened successfully")  
Else  
    fnAddMessage(LocalDBControlPPC1.GetLastError())  
End If
```

function

```
void CloseDB()
```

function description

Use this function to close a database

parameters

n/a

return value

n/a

function

string GetLastError()

function description

Use this function to get a textual description of the last error that has occurred.

parameters

n/a

return value

The textual error description

VB.NET example of usage

See example of CreateDB()

function

int ExecuteQuery(string QueryString)

function description

Use this function to execute an SQL query. After a successful calling of this function, you can retrieve the results of a query with the functions:

GetFieldCount()

GetFieldName()

GetRowCount()

GetData()

parameters

[in] QueryString the SQL query

return value

0 when everything went ok

not 0 when an error occurred. Get the error in textual form by calling
 GetLastError()

VB.NET example of usage

```
Dim nRet As Integer
nRet = LocalDBControlPPC1.ExecuteQuery("UPDATE customers SET name='john' WHERE id=1")
If nRet = 0 Then
    fnAddMessage("ExecuteQuery() successful")
Else
    fnAddMessage(LocalDBControlPPC1.GetLastError())
End If
```

function

```
int GetFieldCount()
```

function description

Use this function to retrieve the number of fields (i.e. the number of columns) in an query result, after a successful SQL query.

parameters

n/a

return value

The number of fields

VB.NET example of usage

See example of `GetFieldName()`

function

```
string GetFieldName(int Index)
```

function description

You can use this function to retrieve field names, after a successful SQL query.

parameters

[in] nIndex	0-based index of field (get number of fields with <code>GetFieldCount()</code>)
-------------	----------------------------------------------------------------------------------

return value

The field name

VB.NET example of usage

```
Dim FieldName, Str As String
Dim i As Integer

Str = ""

For i = 0 To LocalDBControlPPC1.GetFieldCount() - 1
    FieldName = LocalDBControlPPC1.GetFieldName(i)
    Str = Str + "[" + FieldName + " ] "
Next i
fnAddMessage("fields: " + Str)
```

function

```
int GetRowCount()
```

function description

Use this function to retrieve the number of rows in an query result, after a successful SQL query.

parameters

n/a

return value

The number of rows

VB.NET example of usage

See example of `GetData()`

function

```
string GetData(int Row, int Column)
```

function description

Use this function to retrieve row data, after a successful SQL query.

parameters

[in]	nRow	row number
[in]	nColumn	column number

return value

the row element

VB.NET example of usage

```
Dim Data, Str As String
Dim i, j As Integer

Str = ""
For i = 0 To LocalDBControlPPC1.GetRowCount() - 1
    For j = 0 To LocalDBControlPPC1.GetFieldCount() - 1
        Data = LocalDBControlPPC1.GetData(i, j)
        Str = Str + "[" + Data + "]"
    Next j
    fnAddMessage("row: " + Str)
    Str = ""
Next i
```