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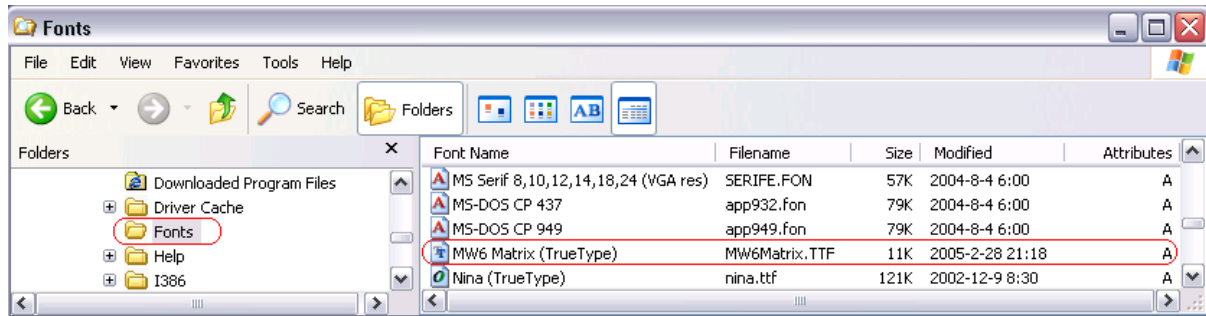
# 1 Introduction

MW6 QRCode font package can print QRCode barcode as a font, Win32 DLL encoder and .NET class library encoder are provided, the encoders are different for the trial version package and the full version package, the trial version encoders append "MW6 Demo" to the string encoded with QRCode.

There is only 1 TrueType font file (MW6Matrix.ttf) bundled with the font package:

Font name	Height/Width of module at 12 points
MW6 Matrix	1/30 inch

The above font file is same for the trial version package and the full version package, copy MW6Matrix.ttf file to the Windows Fonts folder.



## 2 How To Use Encoders

### 2.1 Win32 DLL Encoder

If you build QRCode font applications using Word, Access, Crystal Reports, VB, VC++, Delphi, Borland C++, FoxPro and PowerBuilder, Win32 DLL encoder is required to convert a regular string to QRCode font format string.

1. For 32-bit OS such as Windows XP and NT, copy "QRCodeFont.dll" to the windows 32-bit system folder (e.g. "C:\winnt\system32" or "C:\windows\system32").
2. For 32-bit version of Windows Vista and above, copy "QRCodeFont.dll" to the folder "C:\windows\system32".
3. For 64-bit version of Windows Vista and above, copy "QRCodeFont.dll" to the folder "C:\windows\SysWow64".
4. If you want to generate QRCode barcodes inside 64-bit Office Word, Excel, or Access, copy "QRCodeFont\_x64.dll" to the folder "c:\windows\system32".

### 2.2 .NET Class Library Encoder

If you build QRCode font applications using VB.NET or C#, .NET class library encoder is required to convert a regular string to QRCode font format string, copy "QRCodeFontNet.dll" to your application folder.

## 2.3 Reference Guide

### 2.3.1 Win32 DLL Encoder Functions

#### 2.3.1.1 QRCodeEncode Functiona

Encodes a string using QRCode format.

```
void QRCodeEncode(LPCTSTR Message,
                  WORD Version,
                  WORD Level,
                  WORD Mask);
```

#### Parameters

##### *Message*

String to be encoded using QRCode format.

##### *Version*

Indicates which version is used, the values of all versions are listed here.

##### *Level*

Indicates the level of error correction allowing recovery, this parameter can be one of the following values.

Value	Comment
0	Level L
1	Level M
2	Level Q
3	Level H

##### *Mask*

Indicates the mask pattern for improving the readability, this parameter can be one of the following values.

Value	Comment
0	Auto
1	Mask 0
2	Mask 1
3	Mask 2
4	Mask 3
5	Mask 4
6	Mask 5
7	Mask 6
8	Mask 7

### 2.3.1.2 QRCodeGetCharAt Function

Retrieves the ASCII value for a character element in QRCode font data matrix.

```
WORD QRCodeGetCharAt(WORD RowIndex, WORD ColIndex);
```

#### Parameters

*RowIndex*

This parameter is a 0-based index and a valid value must be between 0 and total number of rows - 1.

*ColIndex*

This parameter is a 0-based index and a valid value must be between 0 and total number of columns - 1.

#### Return Value

The return value is the ASCII value of a character element in QRCode font data matrix.

### 2.3.1.3 QRCodeGetCols Function

Returns the number of columns in QRCode font data matrix.

```
WORD QRCodeGetCols();
```

#### Return Value

The return value is the number of columns in QRCode font data matrix.

### 2.3.1.4 QRCodeGetRows Function

Returns the number of rows in QRCode font data matrix.

```
WORD QRCodeGetRows();
```

#### Return Value

The return value is the number of rows in QRCode font data matrix.

## 2.3.2 .NET Class Library Encoder Methods

### 2.3.2.1 Encode Method

Encodes a string using QRCode format.

```
[Visual Basic .NET]  
Public Sub Encode(ByVal Message As String, _  
                 ByVal Version As Integer, _
```

```
ByVal Level As Integer, _
ByVal Mask As Integer)
```

```
[C#]
public void Encode(string Message,
    int Version,
    int Level,
    int Mask);,
```

### Parameters

#### *Message*

String to be encoded using QRCode format.

#### *Version*

Indicates which version is used, the values of all versions are listed here.

#### *Level*

Indicates the level of error correction allowing recovery, this parameter can be one of the following values.

Value	Comment
0	Level L
1	Level M
2	Level Q
3	Level H

#### *Mask*

Indicates the mask pattern for improving the readability, this parameter can be one of the following values.

Value	Comment
0	Auto
1	Mask 0
2	Mask 1
3	Mask 2
4	Mask 3
5	Mask 4
6	Mask 5
7	Mask 6
8	Mask 7

### 2.3.2.2 GetCols Method

Returns the number of columns in QRCode font data matrix.

```
[Visual Basic .NET]
```

```
Public Function GetCols() As Integer
```

```
[C#]
```

```
public int GetCols();
```

#### Return Value

The return value is the number of columns in QRCode font data matrix.

### 2.3.2.3 GetRows Method

Returns the number of rows in QRCode font data matrix.

```
[Visual Basic .NET]
```

```
Public Function GetRows() As Integer
```

```
[C#]
```

```
public int GetRows();
```

#### Return Value

The return value is the number of rows in QRCode font data matrix.

### 2.3.2.4 GetRowStringAt Method

Concatenates characters for a row in QRCode font data matrix to create a string and return it.

```
[Visual Basic .NET]
```

```
Public Function GetRowStringAt(ByVal RowIndex As Integer) As String
```

```
[C#]
```

```
public string GetRowStringAt(int RowIndex);
```

#### Parameters

*RowIndex*

This parameter is a 0-based index and a valid value must be between 0 and total number of rows minus 1.

#### Return Value

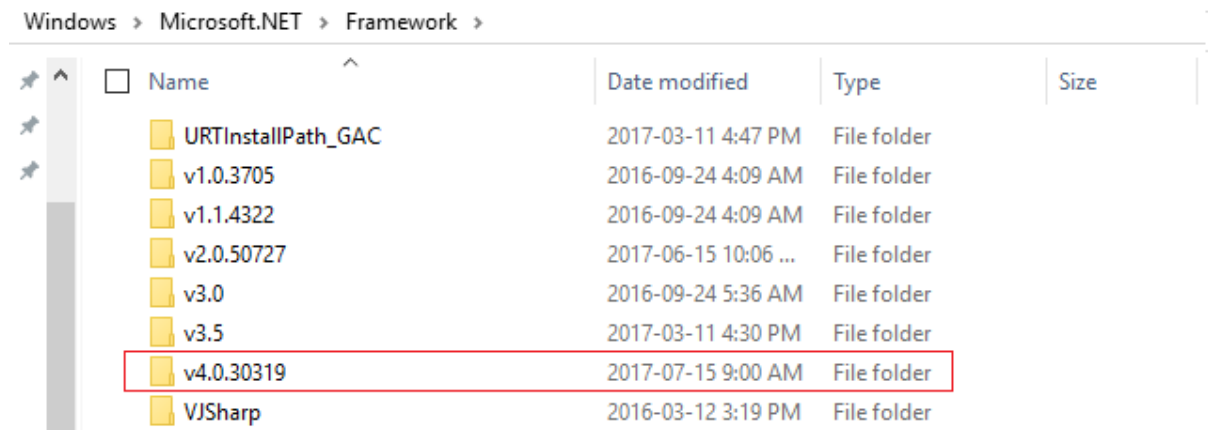
The return value is a row string for QRCode font data matrix.

## 3 Crystal Reports

### 3.1 How To Use It

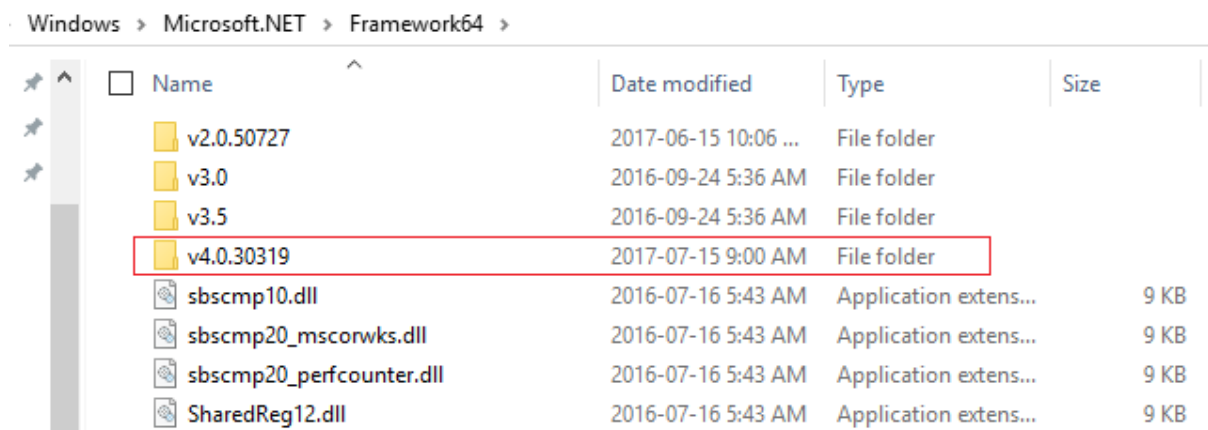
- For 32-bit version of Crystal Reports, unzip UFL\_32.ZIP and put CRUFLQRCode.dll in SysWow64 folder (64-bit version of Windows OS) or system32 folder (32-bit version of Windows OS). Run the following command as **"Run as administrator"**, and the **ver\_num** is the version number for 32-bit version of .NET framework.

C:\Windows\Microsoft.NET\Framework\ver\_num\RegAsm.exe /codebase C:\Windows\SysWow64\CRUFLQRCode.dll



- For 64-bit version of Crystal Reports, unzip UFL\_64.ZIP and put CRUFLQRCode.dll in system32 folder. Run the following command as **"Run as administrator"**, and the **ver\_num** is the version number for 64-bit version of .NET framework.

C:\Windows\Microsoft.NET\Framework64\ver\_num\RegAsm.exe /codebase C:\Windows\System32\CRUFLQRCode.dll



- Open up Crystal Reports, go to **"Field Explorer"**, right click on **"Formula Fields"**, click on **"New"**, enter **"QRCode Barcode"**, copy the following code into the Formula Editor area. Please check the sub-node "COM and .NET UFLs (u212com.dll)" or "Visual Basic (u21com.dll)" under the node



"Additional Functions" if you have difficulty locating QRCode font related functions.

```
stringVar OrigStr := ToText("Data.ID");

numberVar Version := 0;
numberVar Level := 1;
numberVar Mask := 3;

numberVar BlockCount := QRCodeFontEncode (OrigStr,Version,Level,Mask);

stringVar FinalBarcodeStr := "";
numberVar i := 0;
For i := 1 to BlockCount Do
(
    FinalBarcodeStr := FinalBarcodeStr + QRCodeFontGetBlock (i - 1);
);

FinalBarcodeStr
```

4. Change a few values to meet your application requirements, click "**Save**" and close this window.

```
stringVar OrigStr := ToText("Data.ID");

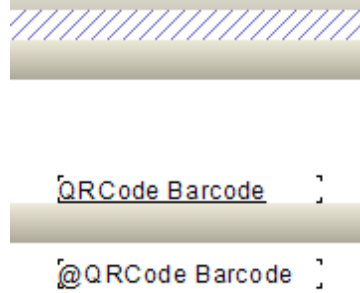
numberVar Version := 10;
numberVar Level := 1;
numberVar Mask := 3;
numberVar Ret := 0;

numberVar BlockCount := QRCodeFontEncode (OrigStr,Version,Level,Mask);

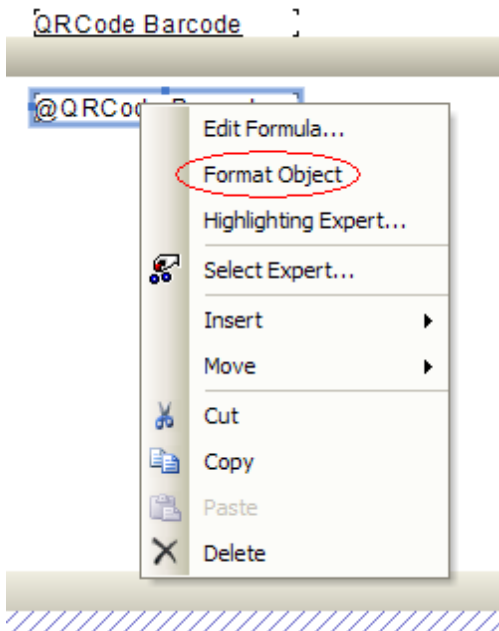
stringVar FinalBarcodeStr := "";
numberVar i := 0;
For i := 1 to BlockCount Do
(
    FinalBarcodeStr := FinalBarcodeStr + QRCodeFontGetBlock (i - 1);
);

FinalBarcodeStr
```

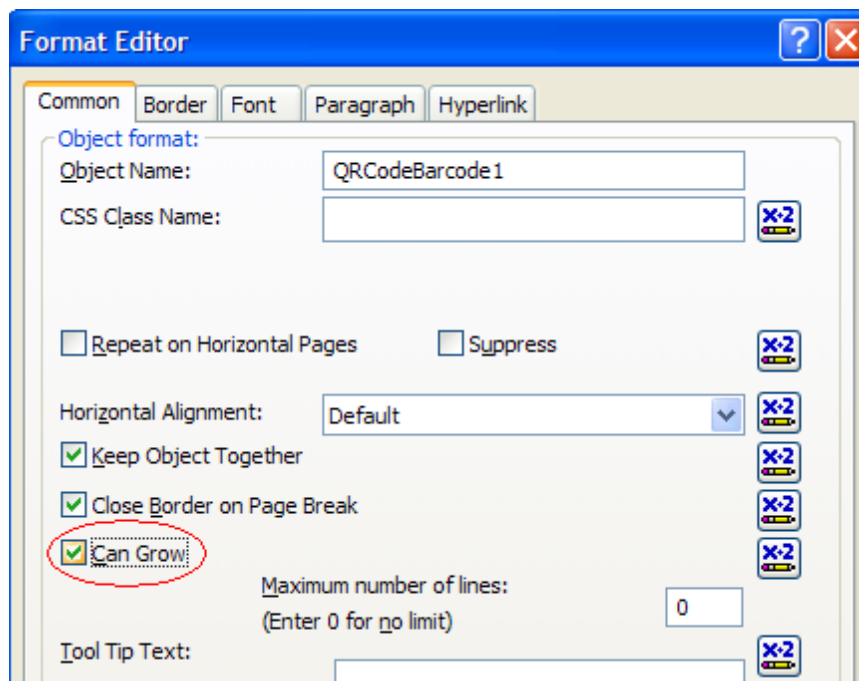
5. Click on the formula field "**QRCode Barcode**" and drag it on the report.



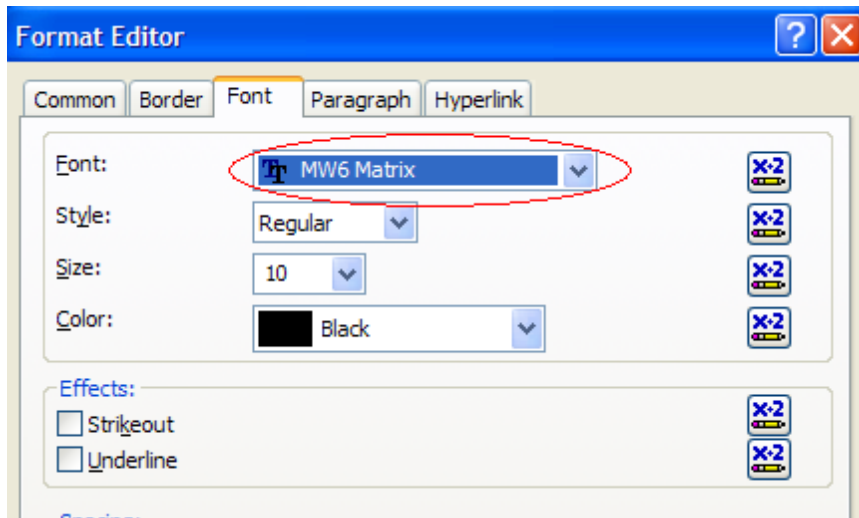
6. Right-click "**@QRCode Barcode**" and choose "**Format Object**".



7. Toggle on "**Can Grow**" check box under "**Common**" tab.
-



8. Choose "MW6 Matrix" as the font name under "Font" tab.



9. Run the report.

## QRCode Barcode



### 3.2 UFL Functions

#### 3.2.1 QRCodeFontEncode Function

Encodes a string using QRCode format.

```
Public Function QRCodeFontEncode(ByVal Message As String, _  
                                ByVal Version As Integer, _  
                                ByVal Level As Integer, _  
                                ByVal Mask As Integer) As Integer
```

##### Parameters

###### *Message*

String to be encoded using QRCode format.

###### *Version*

Indicates which version is used, the values of all versions are listed here.

###### *Level*

Indicates the level of error correction allowing recovery, this parameter can be one of the following values.

Value	Comment
0	Level L
1	Level M
2	Level Q
3	Level H

---

### *Mask*

Indicates the mask pattern for improving the readability, this parameter can be one of the following values.

Value	Comment
0	Auto
1	Mask 0
2	Mask 1
3	Mask 2
4	Mask 3
5	Mask 4
6	Mask 5
7	Mask 6
8	Mask 7

### **Return Value**

Number of QRCode format string blocks. Each block has 254 characters, the only exception is that last block might contain <254 characters. Since Crystal Reports UFL function only allows the returned string with maximum 254 characters, we have to build entire QRCode format string by concatenating all blocks together.

## **3.2.2 QRCodeFontGetBlock Function**

Retrieves a block data of QRCode format string.

```
Public Function QRCodeFontGetBlock(ByVal BlockIndex As Integer) As String
```

### **Parameters**

#### *BlockIndex*

This parameter is a 0-based index and a valid value must be between 0 and total number of blocks minus 1.

### **Return Value**

A block data of QRCode format string.

## **3.3 Legacy UFL**

Since our Crystal Reports' UFL DLLs are based on the latest .NET technologies, they might not work properly for some earlier versions of Windows and/or Crystal Reports (e.g. XP and Crystal Reports 9.0),

please use this **Legacy UFL** instead.

### 3.3.1 How To Use It

1. The old versions (prior to V9) of Crystal Reports have the limitation for the string length (< **256 characters**), the MW6 QRCode UFL encoder function can easily produce a string with more than 255 characters, so please upgrade your Crystal Reports to version 9 in order to add powerful QRCode barcode into your reports.
2. Go to the folder where u2lcom.dll is located and copy CRUFLQRC.dll there, and this folder varies depending on your version of Crystal Reports. If you are running a 64 bit version of Windows OS such as Windows Vista 64 bit or Windows 7 64 bit, you may need to look in "*C:\Program Files (x86)*" rather than "*C:\Program Files*" folder.

Version	Folder
Crystal Reports 14 (CR2011)	C:\Program Files\Common Files\Business Objects\3.0\bin
Crystal Reports 12 (CR2008)	C:\Program Files\Common Files\Business Objects\3.0\bin <b>or</b> C:\Program Files\Business Objects\BusinessObjects Enterprise 12.0\win32_x86
Crystal Reports 11 R2 (XI R2)	C:\Program Files\Business Objects\common\3.5\bin
Crystal Reports 11 (XI)	C:\Program Files\Common Files\Business Objects\3.0\bin
Crystal Reports.Net 10.2	C:\Program Files\Common Files\Business Objects\2.7\Bin
Crystal Reports 10	C:\Program Files\Common Files\Crystal Decisions\2.5\bin
Crystal Reports 9	C:\Program Files\Common Files\Crystal Decisions\2.0\bin
Crystal Reports for Visual Studio 2003	C:\Program Files\Common Files\Crystal Decisions\1.1\bin
Crystal Reports.Net 1.0	C:\Program Files\Common Files\Crystal Decisions\1.0\bin

3. For Windows Vista or above, you need to use an elevated Command Prompt to run *regsvr32.exe* command, click "**Start**" > "**All Programs**" > "**Accessories**", right-click "**Command Prompt**", and then click "**Run**" as administrator.
4. For 32-bit version Windows OS, run "*regsvr32 CRUFLQRC.dll*" to register it. Copy "*QRCodeFont.dll*" to the windows 32-bit system folder (e.g. "*C:\winnt\system32*" or "*C:\windows\system32*") and move to the step 6.
5. For 64-bit version Windows OS, run "*C:\windows\SysWOW64\regsvr32 CRUFLQRC.dll*" to register it. Copy "*QRCodeFont.dll*" to the windows 32-bit system folder, which is "*C:\windows\SysWOW64*".
6. Open up Crystal Reports, go to "**Field Explorer**", right click on "**Formula Fields**", click on "**New**", enter "**QRCode Barcode**", copy the following code into the Formula Editor area.

```
stringVar OrigStr := ToText({Data.ID});

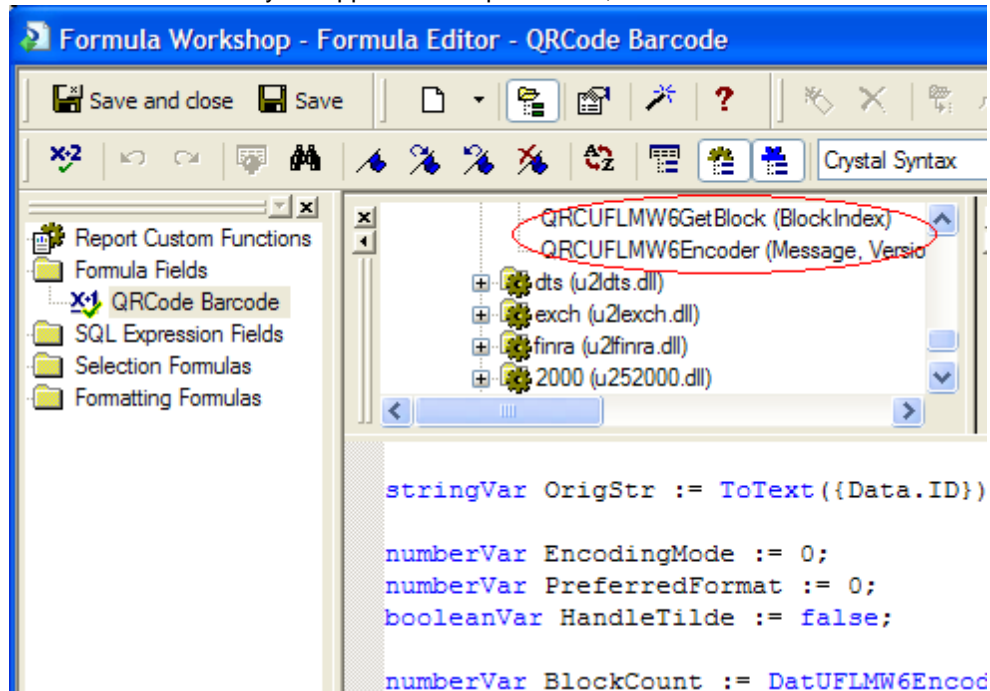
numberVar Version := 0;
numberVar Level := 1;
numberVar Mask := 3;

numberVar BlockCount := QRCUFLMW6Encoder (OrigStr,Version,Level,Mask);

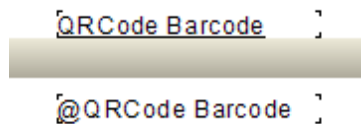
stringVar FinalBarcodeStr := "";
numberVar i := 0;
For i := 1 to BlockCount Do
(
```

```
FinalBarcodeStr := FinalBarcodeStr + QRCUFLMW6GetBlock (i - 1);
);
FinalBarcodeStr
```

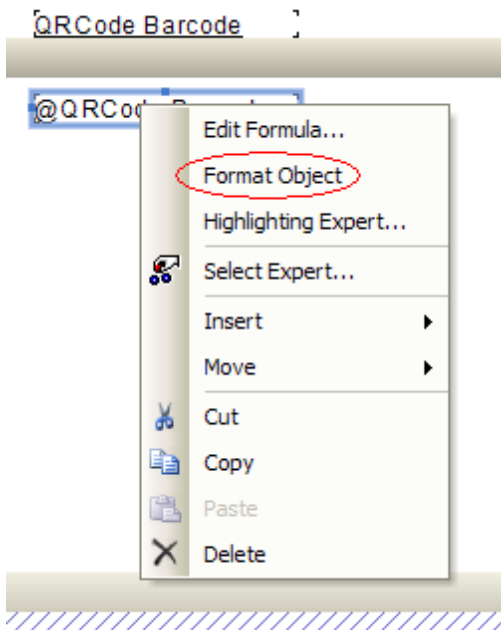
7. Change a few values to meet your application requirements, click "**Save**" and close this window.



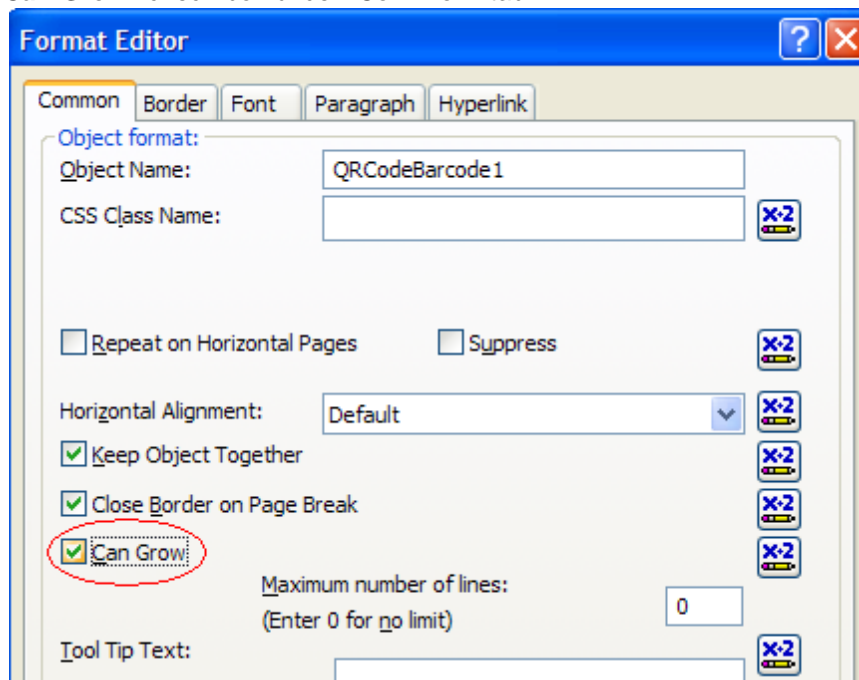
8. Click on the formula field "**QRCode Barcode**" and drag it on the report.



9. Right-click "**@QRCode Barcode**" and choose "**Format Object**".

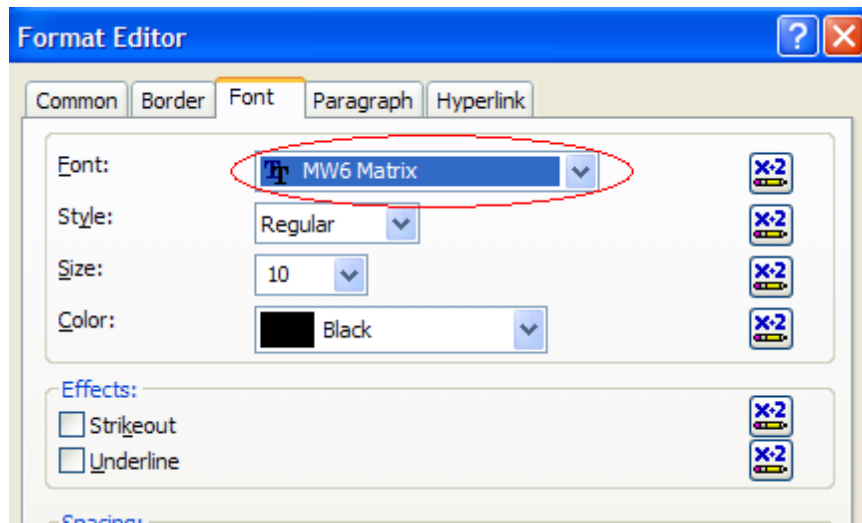


10. Toggle on "Can Grow" check box under "Common" tab.



11. Choose "MW6 Matrix" as the font name under "Font" tab.





12. Run the report.

## QRCode Barcode



### 3.3.2 How To Distribute It

For the distribution purpose, you need to distribute MW6 QRCode font .ttf file (MW6Matrix.ttf), Win32 DLL Encoder (QRCodeFont.dll), Crystal Reports UFL (CRUFLQRC.dll), Crystal Reports Runtime (u2lcom.dll) and VB Runtime DLL (msvbvm60.dll), VB Runtime DLL already exists on most PCs and it can be found in the system folder.

### 3.3.3 UFL Functions

#### 3.3.3.1 QRCUFLMW6Encoder Function

Encodes a string using QRCode format.

```
Public Function QRCUFLMW6Encoder(ByVal Message As String, _
                                ByVal Version As Integer, _
                                ByVal Level As Integer, _
                                ByVal Mask As Integer) As Integer
```

#### Parameters

##### *Message*

String to be encoded using QRCode format.

##### *Version*

Indicates which version is used, the values of all versions are listed here.

##### *Level*

Indicates the level of error correction allowing recovery, this parameter can be one of the following values.

Value	Comment
0	Level L
1	Level M
2	Level Q
3	Level H

##### *Mask*

Indicates the mask pattern for improving the readability, this parameter can be one of the following values.

Value	Comment
0	Auto
1	Mask 0
2	Mask 1
3	Mask 2
4	Mask 3
5	Mask 4
6	Mask 5
7	Mask 6
8	Mask 7

### Return Value

Number of QRCode format string blocks. Each block has 254 characters, the only exception is that last block might contain <254 characters. Since Crystal Reports UFL function only allows the returned string with maximum 254 characters, we have to build entire QRCode format string by concatenating all blocks together.

#### 3.3.3.2 QRCUFLMW6GetBlock Function

Retrieves a block data of QRCode format string.

```
Public Function DatUFLMW6GetBlock(ByVal BlockIndex As Integer) As String
```

### Parameters

*BlockIndex*

This parameter is a 0-based index and a valid value must be between 0 and total number of blocks - 1.

### Return Value

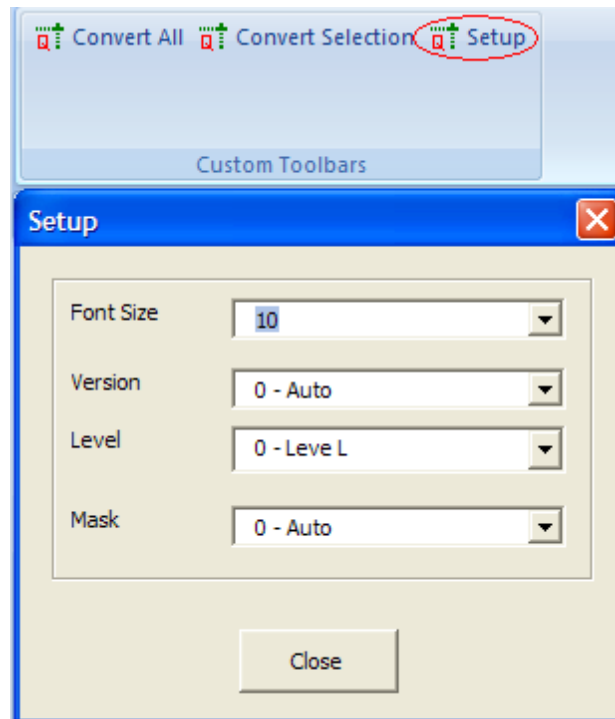
A block data of QRCode format string.

## 4 Office 2007 & 2010

### 4.1 Word

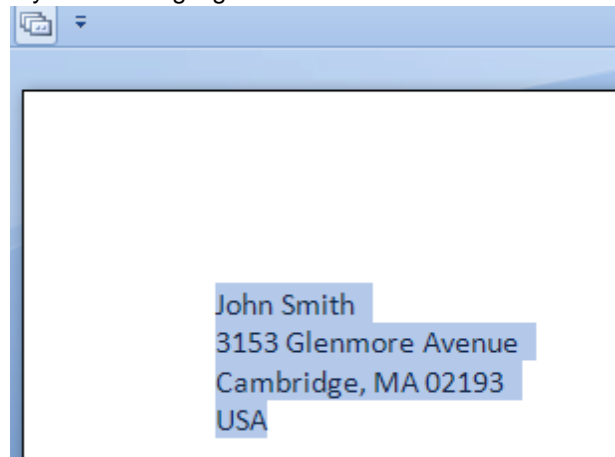
#### 4.1.1 Install Template File

1. Locate Microsoft Word Startup folder, which usually is "C:\Documents and Settings\\Application Data\Microsoft\Word\STARTUP" for Windows XP or "C:\Users\\AppData\Roaming\Microsoft\Word\STARTUP" for Windows Vista and above.
2. Copy MW6\_QRCode\_Font.dotm for 32-bit Office or MW6\_QRCode\_Font\_x64.dotm for 64-bit Office to this folder.
3. For 32-bit Office, copy "QRCodeFont.dll" to the windows 32-bit system folder (e.g., "C:\winnt\system32" or "C:\windows\system32") of 32-bit OS or the windows SysWow64 folder of 64-bit OS (e.g., "C:\windows\SysWow64").
4. For 64-bit Office, copy "QRCodeFont\_x64.dll" to the windows 32-bit system folder (e.g., "C:\windows\system32").
5. Click on "**Add-Ins**", then click on "**Setup**", change the configurations for QRCode format.

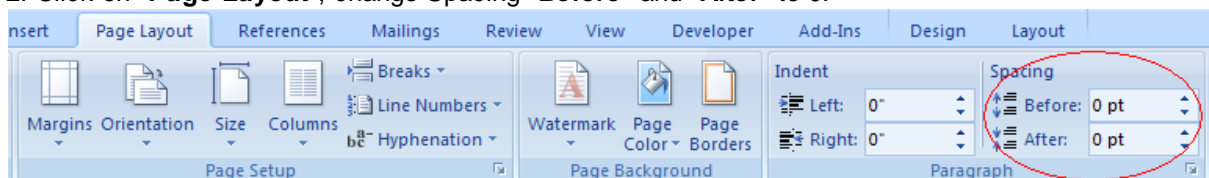


#### 4.1.2 Create Single Barcode

1. Enter a few strings line by line and highlight them.



2. Click on "**Page Layout**", change Spacing "**Before**" and "**After**" to 0.

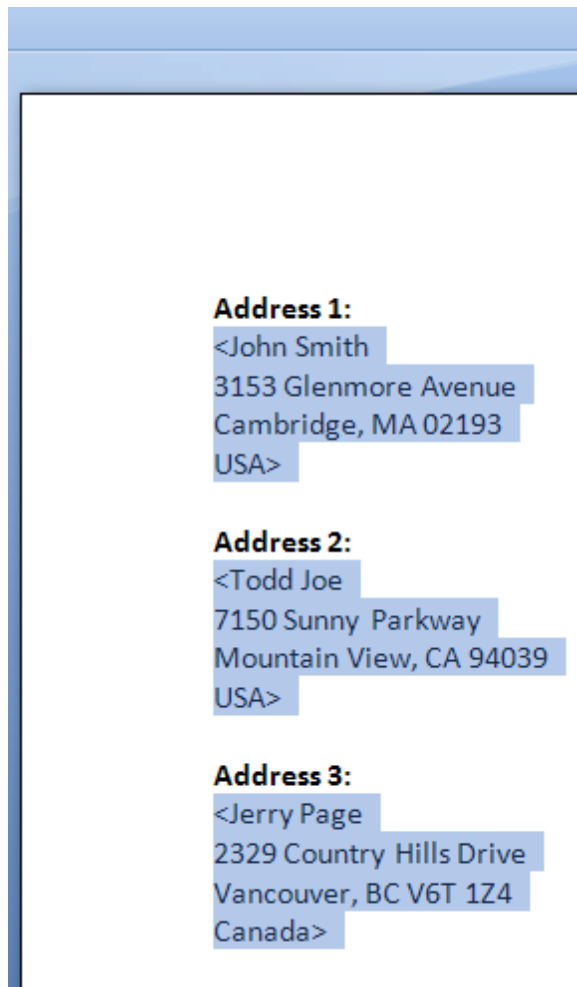


3. Click on "**Add-Ins**", then click on "**Convert Selection**" to create a QRCode barcode.

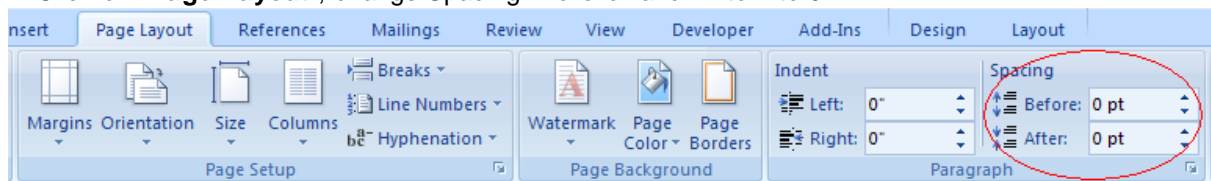


#### 4.1.3 Create Multiple Barcodes

1. Enter a few string sections, surround those sections which will be converted to barcodes with the "<" and ">" characters, highlight those sections.



2. Click on "**Page Layout**", change Spacing "**Before**" and "**After**" to 0.

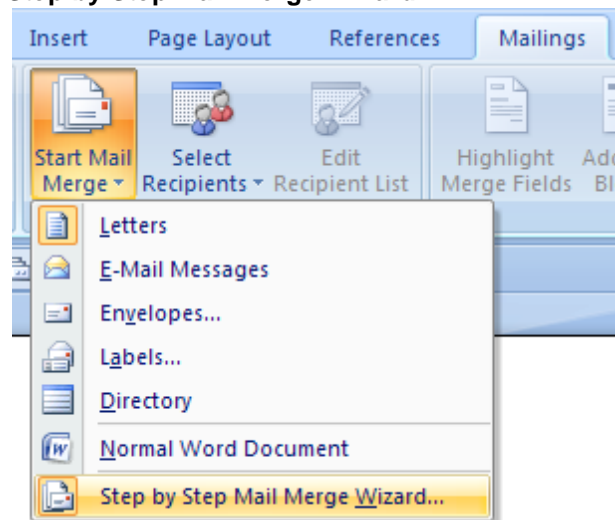


3. Click on "**Add-Ins**", then click on "**Convert All**" to create barcodes for the string sections surrounded with the "<" and ">" characters.

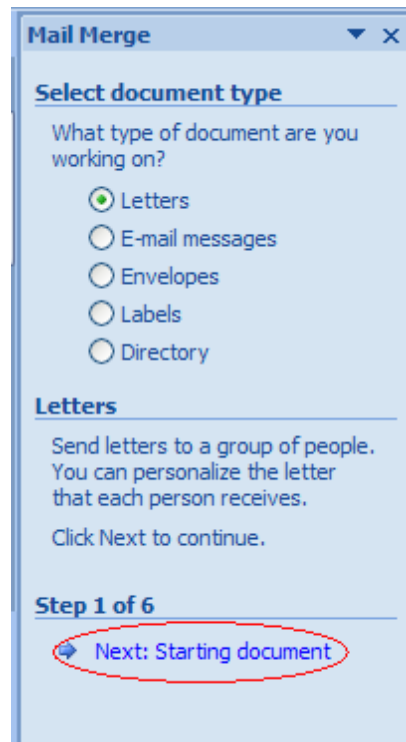


#### 4.1.4 Mail Merge

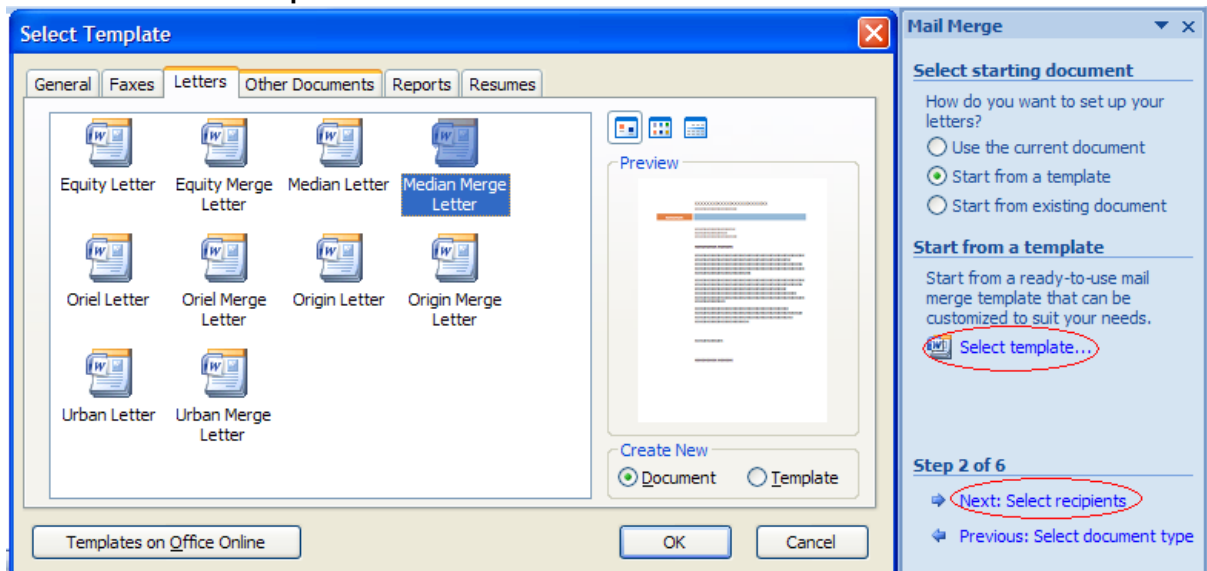
1. Click on "**Mailings**", then click on "**Start Mail Merge**". A drop-down list appears as shown below, select the last option "**Step by Step Mail Merge Wizard**".



2. Select a document type and click on "**Next: Starting document**".

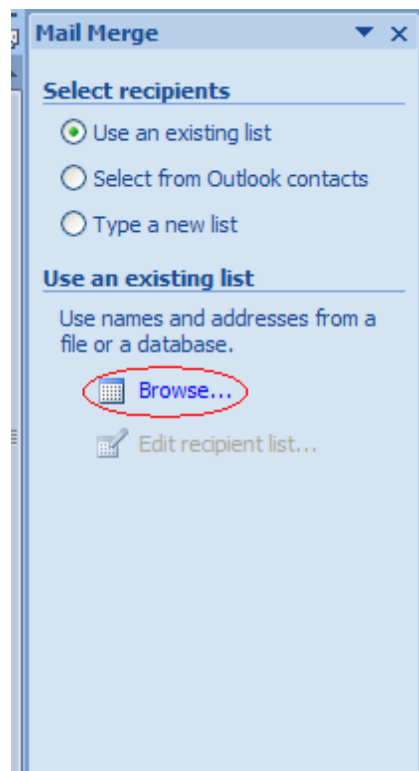


3. Click on **"Start from a template"**, then click on the link **"Select template"**, choose a template, click on **"Next: Select recipients"**.

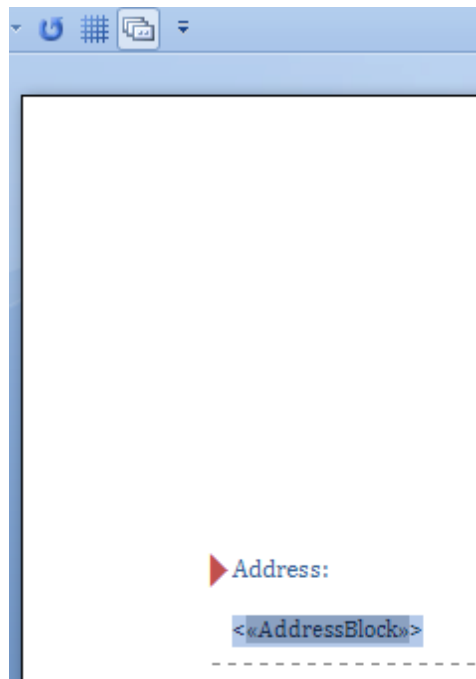


4. Select **"Use an existing list"** and click on **"Browser"** link, choose "MW6\_QRCode\_Font.accdb" database as an existing list, click **"Next: Write your letter"**.

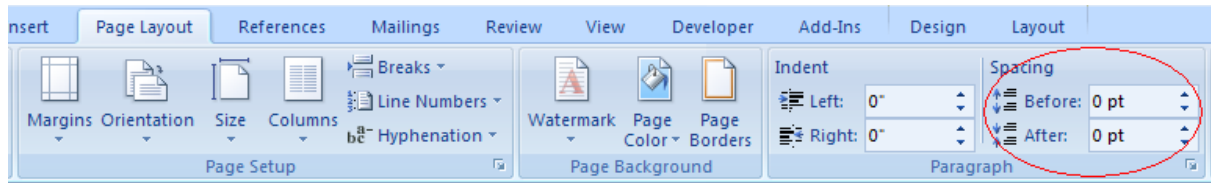




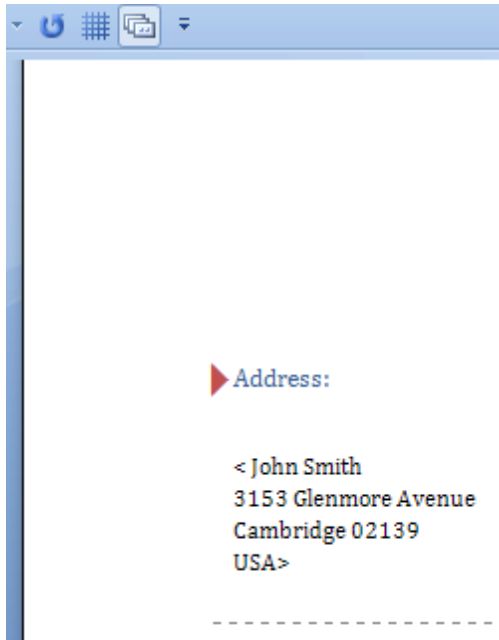
5. Surround the section which will be converted to QRCode barcode with "<" and ">" characters and highlight it.



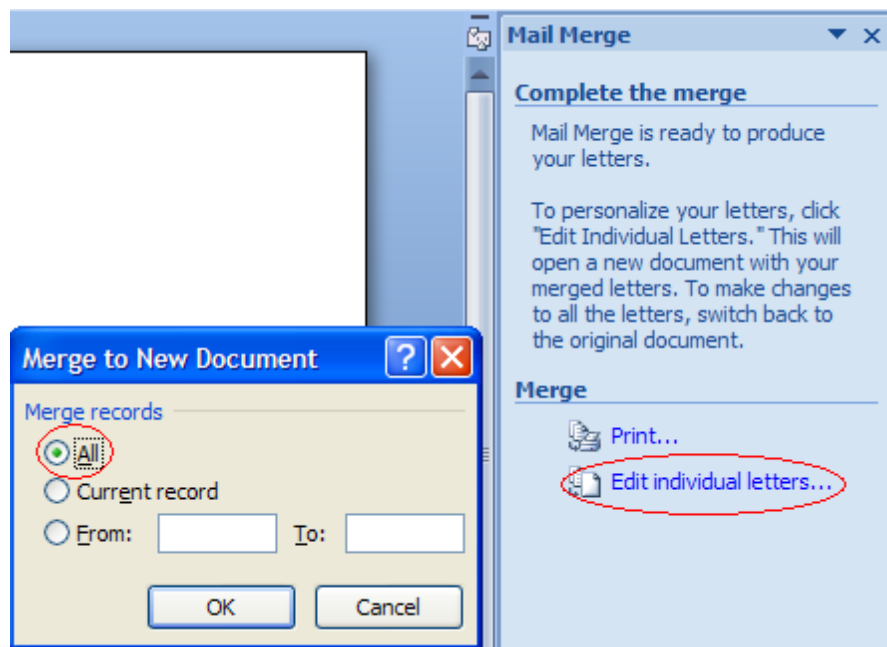
6. Click on "Page Layout", change Spacing "Before" and "After" to 0.



7. Click on "**Next: Preview your letters**", then click on "**Next: Complete the merge**".



8. Click on "**Edit individual letters**", this opens "**Merge to New Document**" dialog, click on "**All**" and then click on "**OK**" button.

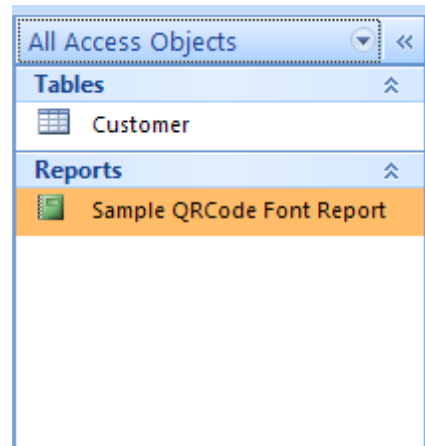


9. Click on "**Add-Ins**", then click on "**Convert All**" to create QRCode barcodes.

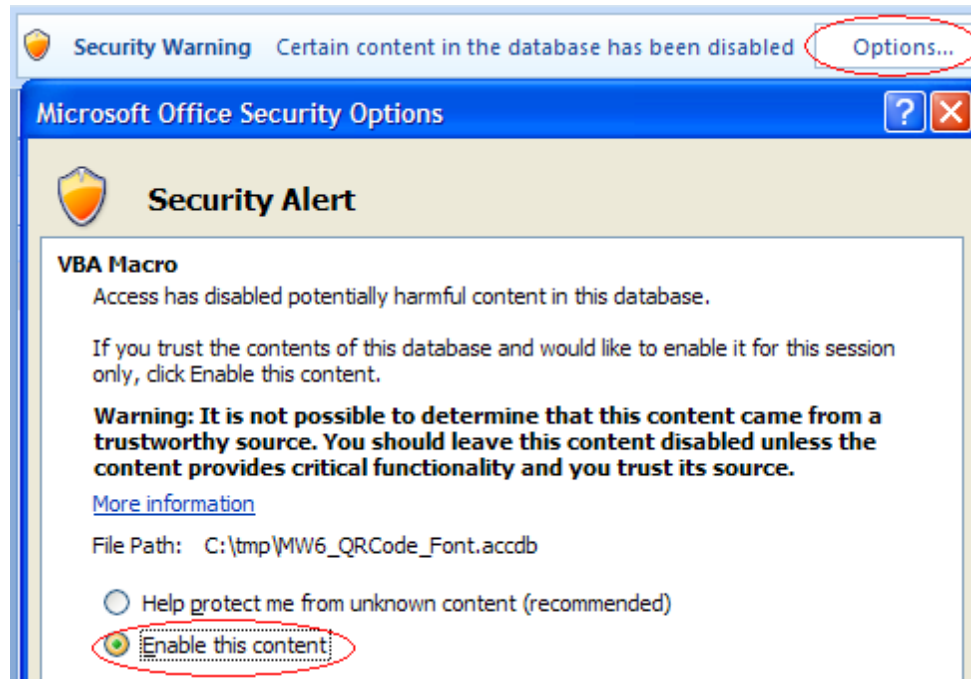


## 4.2 Access

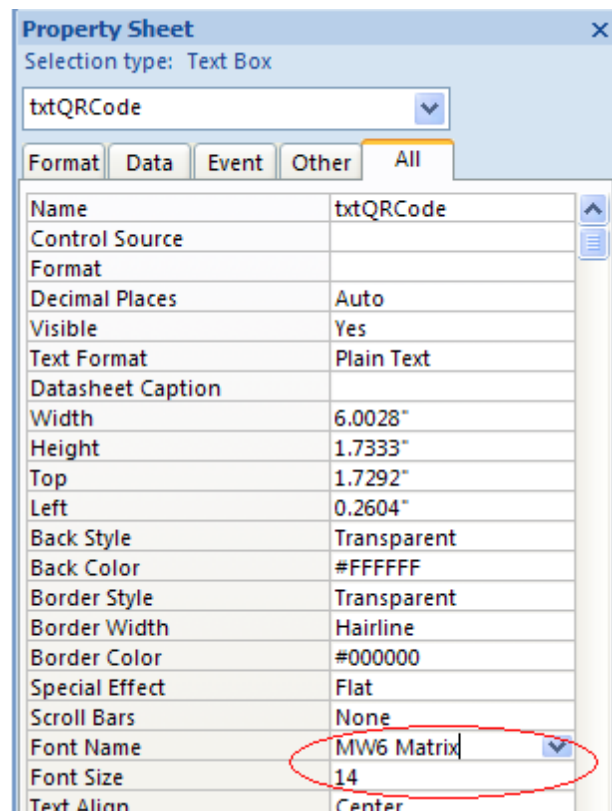
1. Copy "QRCodeFont.dll" to the windows 32-bit system folder (e.g. "C:\winnt\system32" or "C:\windows\system32").
2. Open MW6\_QRCode\_Font.accdb, select "**Sample QRCode Font Report**".



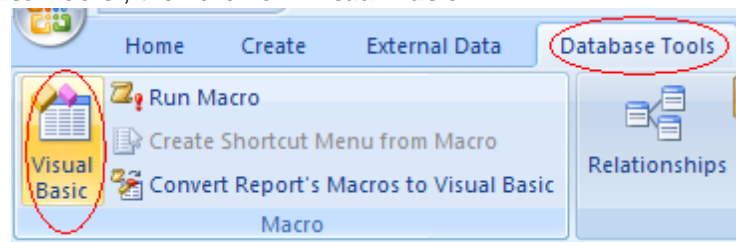
3. If you see "**Security Warning, Certain content in the database has been disabled**", click on "**Options**" to open "**Microsoft Office Security Options**" dialog, toggle on "**Enable this content**" check box.



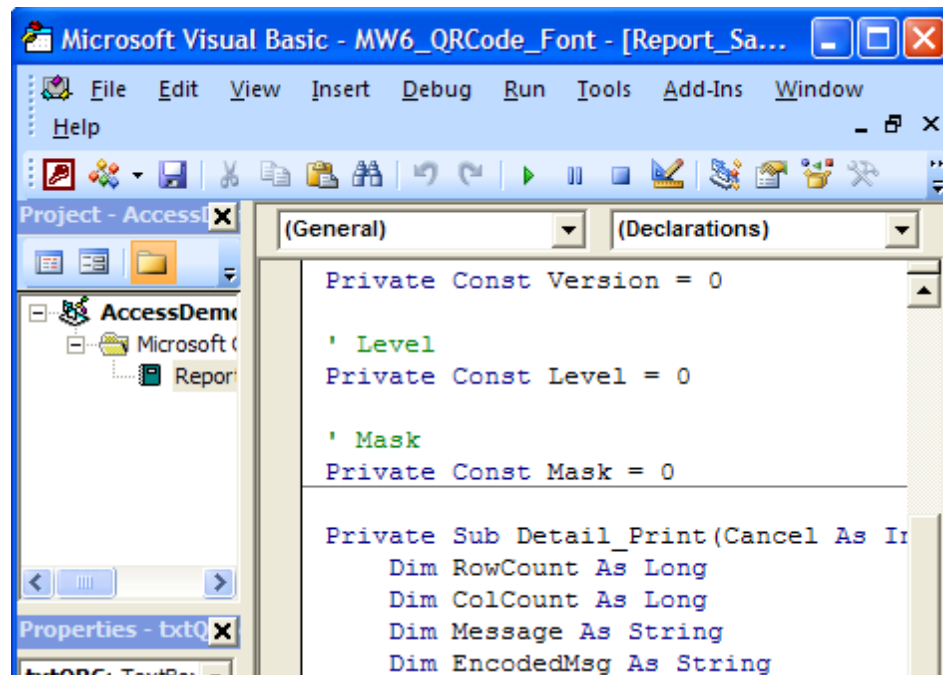
4. Click on "**Design View**", insert a Text Box into the report, set its font name to "MW6 Matrix", choose an appropriate font size.



5. Click on "**Database Tools**", then click on "**Visual Basic**".



6. Convert a regular string to a QRCode format barcode string in "*Private Sub Detail\_Print(Cancel As Integer, PrintCount As Integer)*".



7. Click on "Preview" to view QRCode barcodes.

## Customer

<b>Name</b>	John Smith
<b>Address</b>	3153 Glenmore Avenue
<b>City</b>	Cambridge
<b>State/Prov</b>	MA
<b>Country</b>	USA
<b>Zip Code</b>	02139



## 5 Office 2000 & 2003

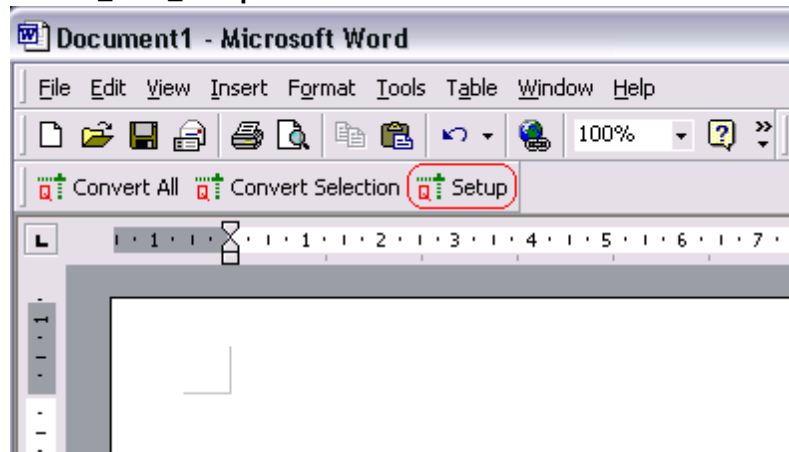
### 5.1 Word Demo

#### 5.1.1 Install Template File

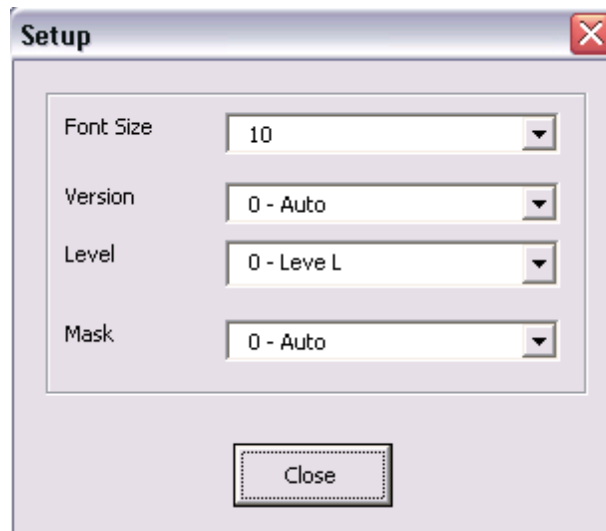
1. Locate the Word Startup folder, the Startup folder can be found in the following locations:

OS	Location
Windows Vista and above	"C:\Users\ <user name="">\AppData\Roaming\Microsoft\Word\STARTUP"</user>
Windows 2000/XP	"C:\Documents and Settings\ <user name="">\Application Data\Microsoft\Word\STARTUP"</user>
Windows NT4	"C:\Winnt\Profiles\ <user name="">\Application Data\Microsoft\Word\STARTUP"</user>
Windows 95, 98, ME	Office XP: "C:\Program Files\Microsoft Office\Office10\STARTUP"  Office 2000/97: "C:\Program Files\Microsoft Office\Office\STARTUP"

2. Copy MW6\_QRCode\_Font.dot to this folder.
3. Copy "QRCodeFont.dll" to the windows 32-bit system folder (e.g. "C:\winnt\system32" or "C:\windows\system32").
4. Open up Word, click on "**Setup**". If you keep getting the error message "**The macro cannot be found or has been disabled because of .....**", download Office 2000 or 2003 Service Pack 3 from Microsoft website and install it to fix this issue. Or simply click "**Tools**" > "**Macro**" > "**Macros**", select "**MW6\_QRCode\_Font\_Setup**" and run it.

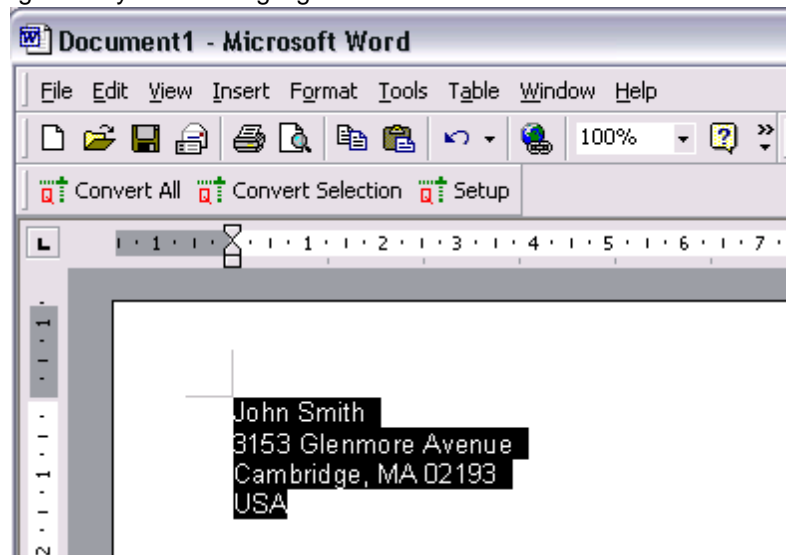


5. Change configurations for QRCode barcode.



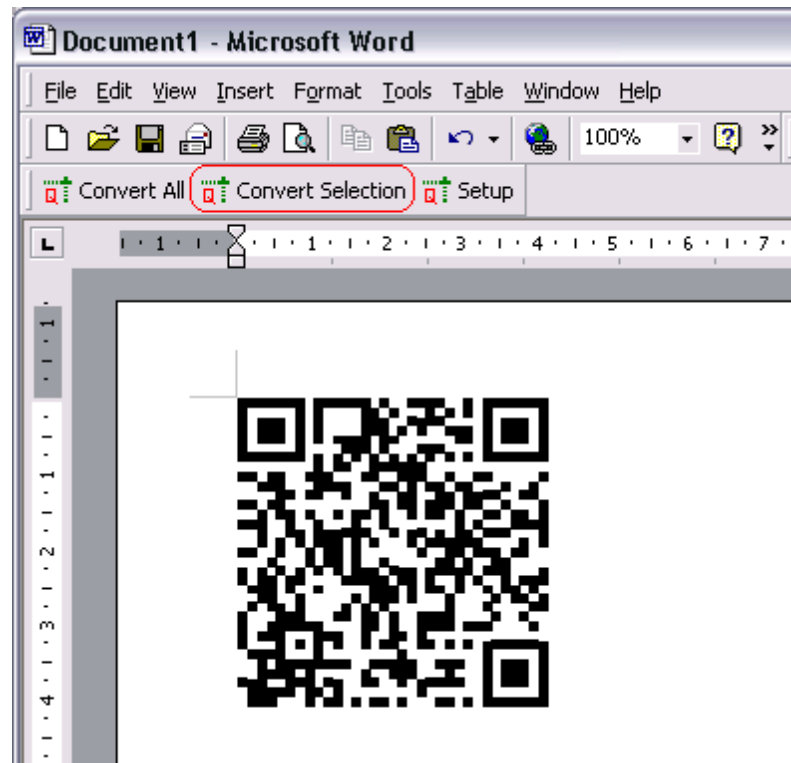
### 5.1.2 Create Single Barcode

1. Enter a few strings line by line and highlight them.



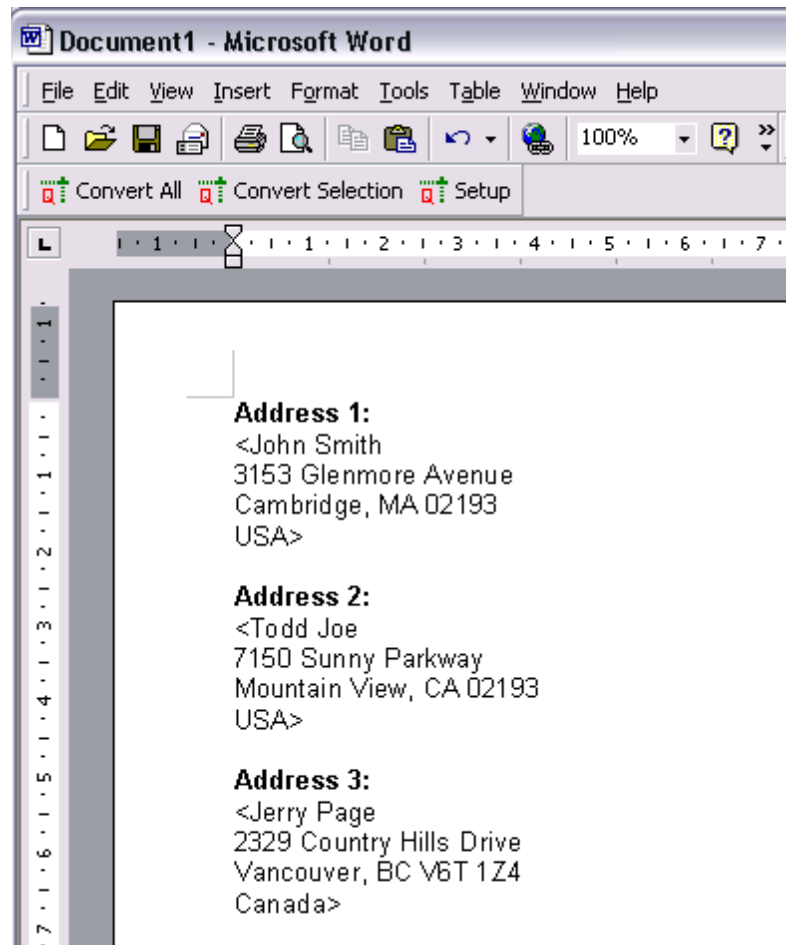
2. Click on "**Convert Selection**" to create a QRCode barcode.



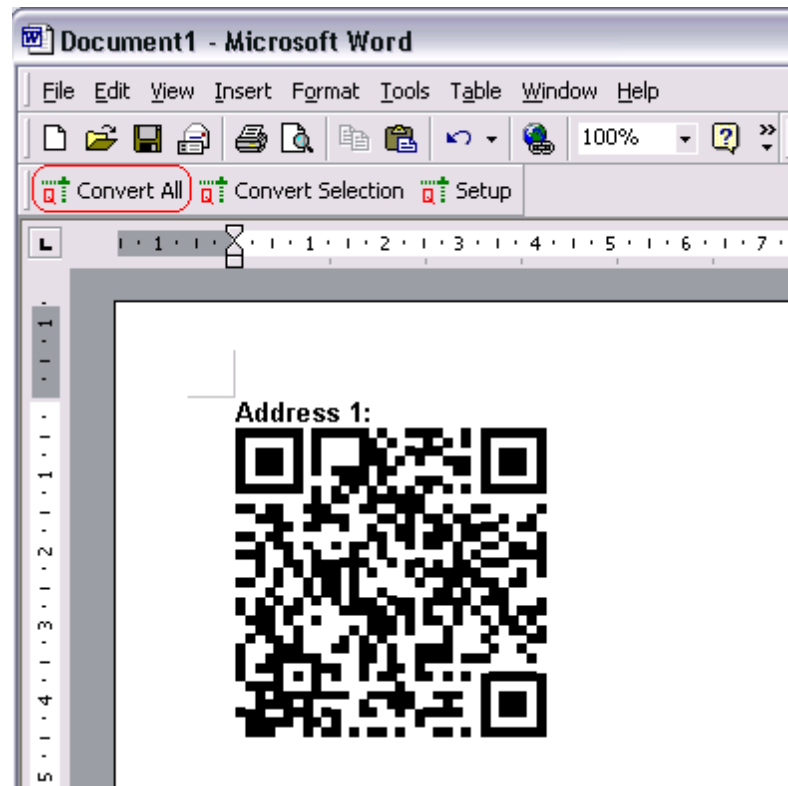


### 5.1.3 Create Multiple Barcodes

1. Enter a few paragraphs, surround those paragraphs which will be converted to barcodes with the "<" and ">" characters.

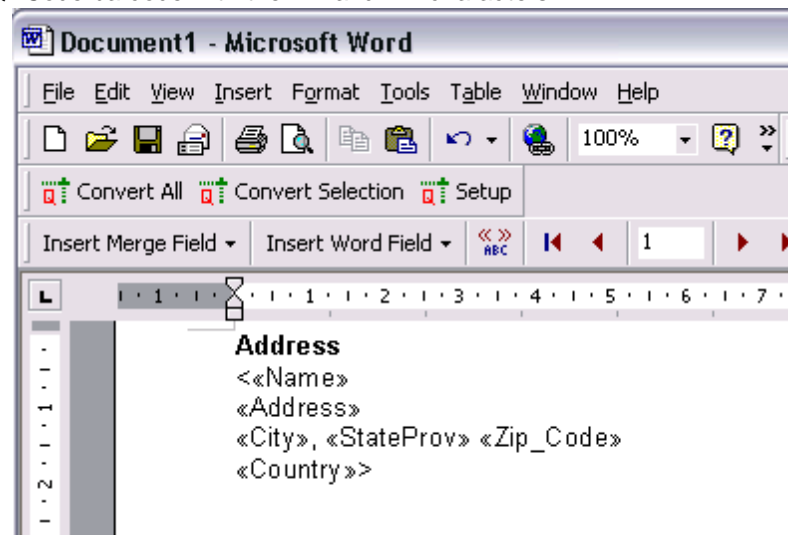


2. Click on "**Convert All**" to create barcodes for paragraphs surrounded with the "<" and ">" characters.



### 5.1.4 Mail Merge

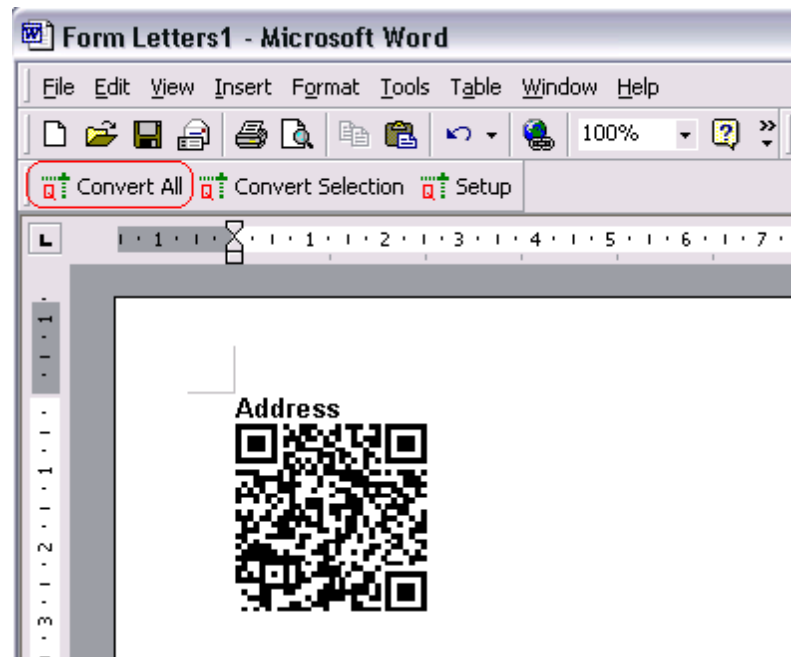
1. In Mail Merge, choose MW6\_QRCode\_Font.mdb as Data Source, surround the paragraph which will be converted to QRCode barcode with the "<" and ">" characters.



2. Click on "Merge ..."

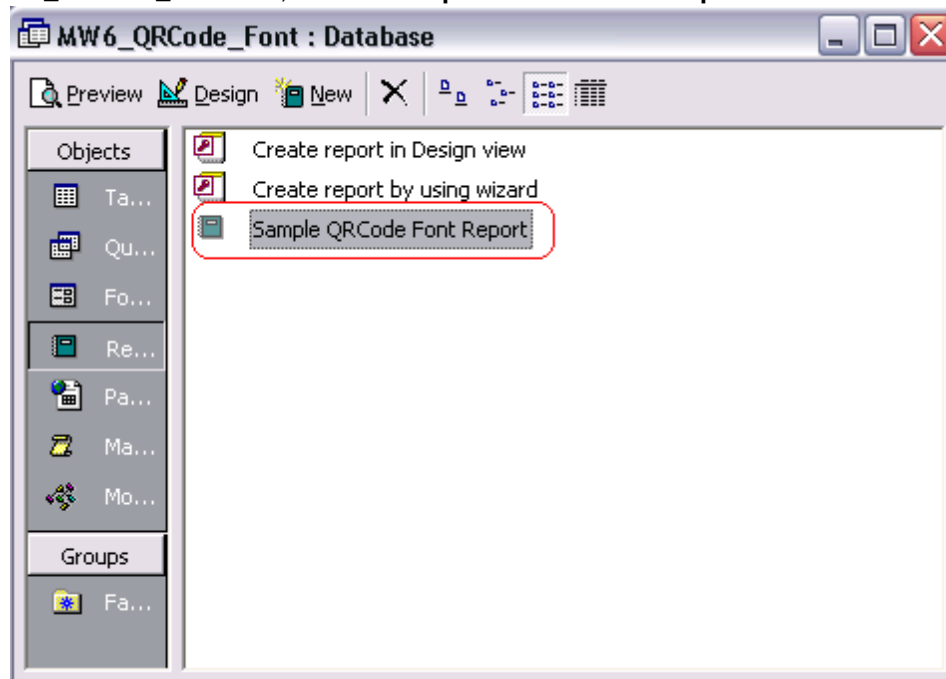


3. Click on "Convert All" to create QRCode barcodes for the paragraphs surrounded with the "<" and ">" characters.

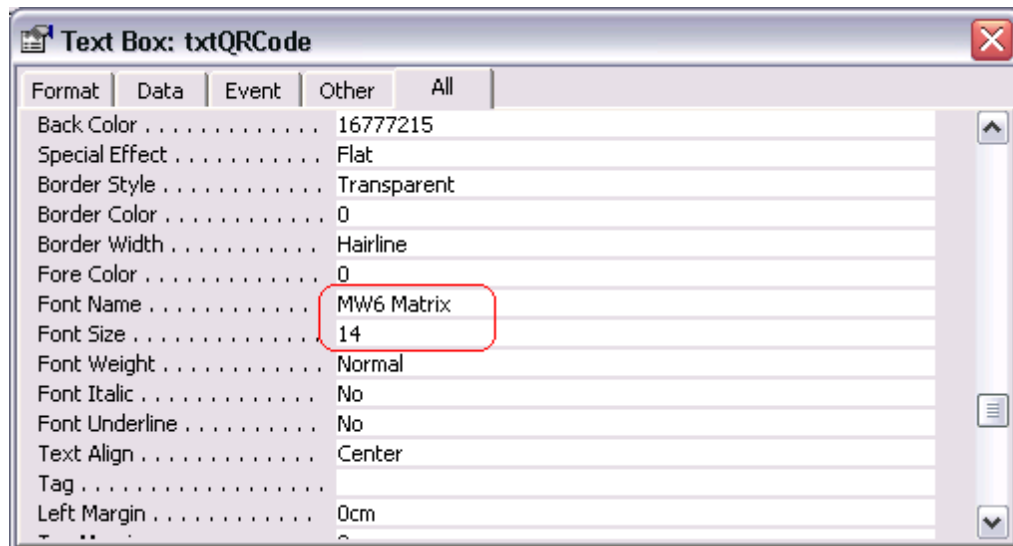


## 5.2 Access Demo

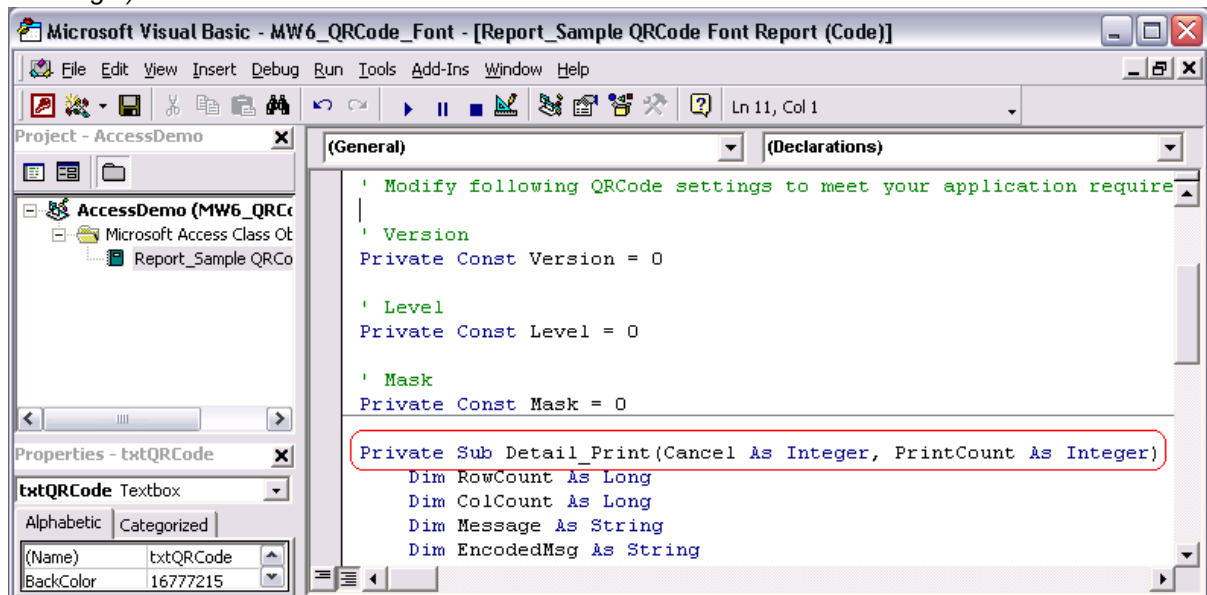
1. Copy "QRCodeFont.dll" to the windows 32-bit system folder (e.g. "C:\winnt\system32" or "C:\windows\system32").
2. Open MW6\_QRCode\_Font.mdb, select "**Sample QRCode Font Report**".



3. Click on "**Design**", insert a Text Box into the report, set its font name to "MW6 Matrix", choose an appropriate font size.



4. Convert a regular string to a barcode string in "*Private Sub Detail\_Print(Cancel As Integer, PrintCount As Integer)*".



5. Click on "**Preview**" to view QRCode barcodes.

**Customer**

*Customer*

*Name* John Smith

*Address* 3153 Glenmore Avenue

*City* Cambridge

*State/Prov* MA

*Country* USA

*Zip Code* 02139



Page: 1

## 6 QRCode Versions

The following table lists all versions of QRCode barcode:

Value	Description
0	Auto
1	21 X 21
2	25 X 25
3	29 X 29
4	33 X 33
5	37 X 37
6	41 X 41
7	45 X 45
8	49 X 49
9	53 X 53
10	57 X 57
11	61 X 61
12	65 X 65
13	69 X 69
14	73 X 73
15	77 X 77
16	81 X 81
17	85 X 85

18	89 X 89
19	93 X 93
20	97 X 97
21	101 X 101
22	105 X 105
23	109 X 109
24	113 X 113
25	117 X 117
26	121 X 121
27	125 X 125
28	129 X 129
29	133 X 133
30	137 X 137
31	141 X 141
32	145 X 145
33	149 X 149
34	153 X 153
35	157 X 157
36	161 X 161
37	165 X 165
38	169 X 169
39	173 X 173
40	177 X 177

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