Excel Visual Basic macro and sql scripts

One of my friends told me that I can generate a sql script using a Visual Basic (VB) macro based upon a data excel worksheet.

I found that it sounds very useful because I am receiving very often a request to insert several records in several tables based on an excel worksheet

I told him "Ok, could you please help me to do it". He graciously did it and this is the synthesis document one can use to do the same thing as I did to generate my first Visual Basic sql script.

Suppose you receive the following very simple excel worksheet:

Client Ide	Type	Amount	Zip Code	Discount	Max Fee	Periodicity	End Date
99990205794	99	152	59155	13,2	10	annually	15/02/2008
88880426167	16	3	59000	11	0	annually	31/12/2007
77778606907	00	59	62950	5	15	monthly	31/03/2008
66666648933	00	62	13003	6	13.56	quarterly	31/12/2007
55556254262	16	589	81200	11	5	quarterly	1/06/2008
44444037760	16	36	44225	25	0	monthly	31/12/2009
33334347846	99	458	42125	13	11	annually	31/12/2008
22224347947	99	135	13009	17	17.8	monthly	31/12/2007

and you want to generate a sql script that inserts the above several rows into a table named **table_t1** described as follow:

```
d_mho@Mhouri.WORLD> desc table_t1
Name                             Null?    Type
-------------------------------- -------- ----
CLIENT_IDE                                NUMBER
TYPE                                      VARCHAR2(2)
AMOUNT                                    NUMBER
ZIP_CODE                                  VARCHAR2(5)
DISCOUNT                                  NUMBER
MAX_FEE                                   NUMBER
PERIODICITY                               VARCHAR2(2)
END_DATE                                  DATE
```

In order to generate this sql script, using a Visual Basic macro, you can attach a push button in the same Excel file you have received having the following code

```
Option Explicit

Sub create_script()

Dim First_row As Double
Dim Last_row As Double
Dim ind_row As Double
Dim temp_val As String
Dim line As String
```

Mohamed.Houri@gmail.com

```
Open "C:\temp2\MySqlscript.sql" For Output As #1

First_row = 2
Last_row = 9

Print #1, "-- Sql script --"

For ind_row = First_row To Last_row

   Select Case Worksheets("Sql_Data").Cells(ind_row, 7)
      Case "annually"
         temp_val = "00"
      Case "monthly"
         temp_val = "01"
      Case "quarterly"
         temp_val = "03"
      End Select

   line = "INSERT INTO TABLE_T1 (CLIENT_IDE" & _
          ",TYPE,AMOUNT,ZIP_CODE,DISCOUNT,MAX_FEE,PERIODICITY,END_DATE) " & _
          " VALUES (" & _
          Worksheets("Sql_Data").Cells(ind_row, 1) & _
          ",'" & _
          Worksheets("Sql_Data").Cells(ind_row, 2) & _
          "'," & _
          Replace(Worksheets("Sql_Data").Cells(ind_row, 3), ",", ".") & _
          ",'" & _
          Worksheets("Sql_Data").Cells(ind_row, 4) & _
          "'," & _
          Replace(Worksheets("Sql_Data").Cells(ind_row, 5), ",", ".") & _
          "," & _
          Replace(Worksheets("Sql_Data").Cells(ind_row, 6), ",", ".") & _
          ",'" & _
          temp_val & _
          "',TO_DATE('" & _
          Worksheets("Sql_Data").Cells(ind_row, 8) & _
          "','DD/MM/YYYY')" & _
          ");"

   Print #1, line


Next ind_row

   line = "COMMIT;"
   Print #1, line

Close #1

End Sub
```

Sql_Data refers to the name of the sheet within the Excel file you have received. The sql script, **MySqlscript.sql**, will be generated at the location C:\temp2. You can then execute it as usual.