

Appendix B: The Visual Basic code used to embed SQL statements.

If you have a working knowledge of Visual Basic, you may wish to know how I implemented the SQL CREATE, INSERT, UPDATE and DELETE commands that are mentioned in section 10.

A simple form was created in Access with a number of Command Buttons on it. Each command button called the corresponding sub routine called via the *on_click* event.

Obviously the standard of the form and the usefulness of the code is not sufficiently robust or flexible to be of much practical use; the aim of the form and coding was simply to enable a table to be created, populated and updated using SQL commands.

The form in question is shown in Figure B-1.

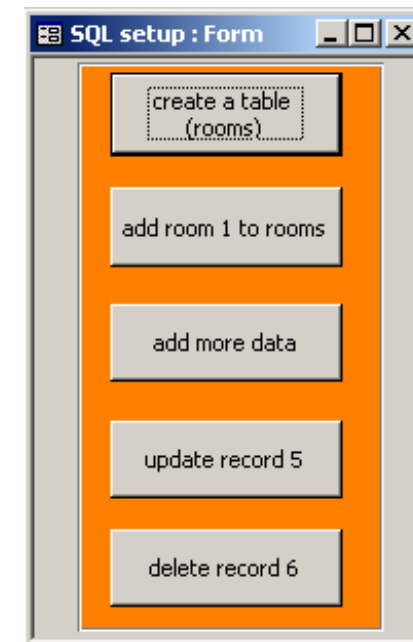


Figure B-1: The form used to create and populate the table rooms



Each button calls a subroutine of that name. The design view of button 1 (Create a table) is shown in figure B-2.

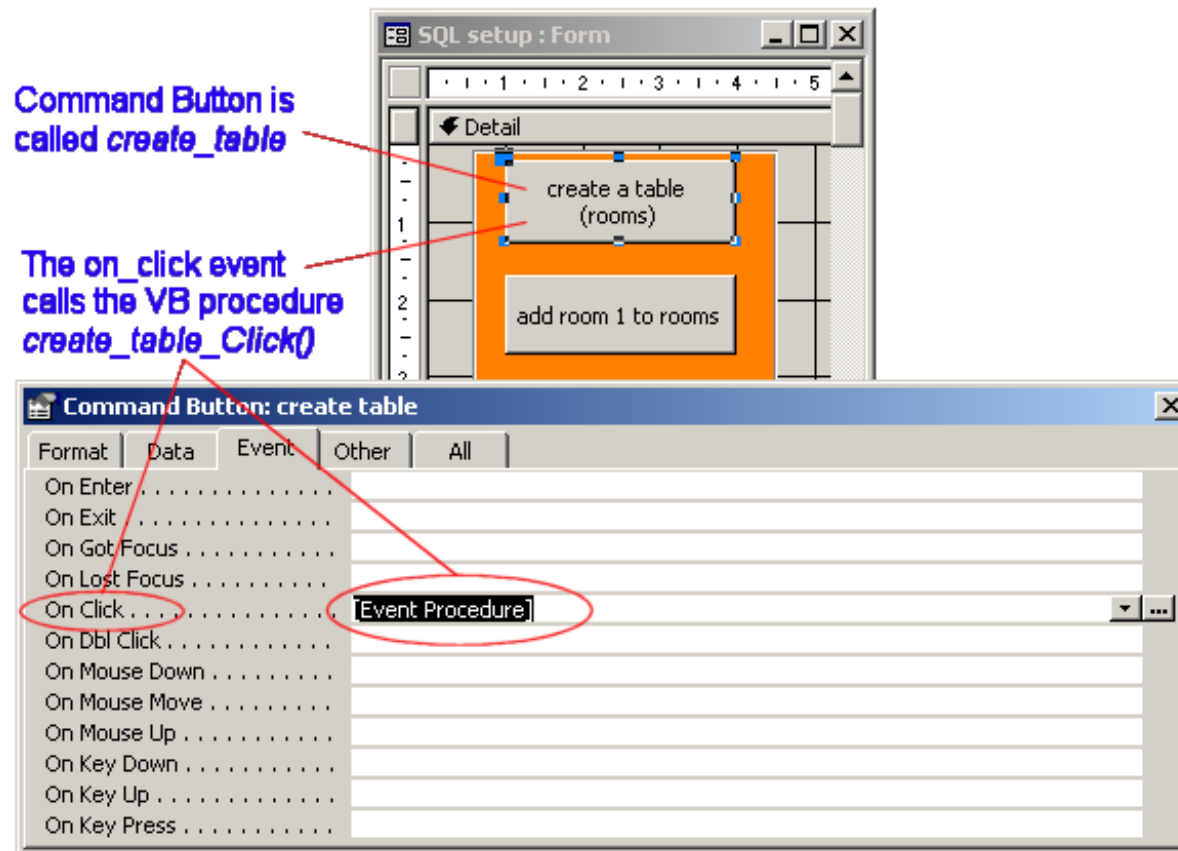


Figure B-2: Design view showing the event handling properties of the command button `create_table`



Each command button is named as follows:

create a table (Rooms)	create table
add room 1 to rooms	add room 1
add more data	add more data
update record 5	update record 5
delete record 6	Delete record 6

The Event Procedures are automatically named by Access as follows:

create_table_Click()
add_room_1_Click()
add_more_data_Click()
update_record_5_Click()
Delete_record_6_Click()

The code assigned to each of these command buttons is shown in the following pages.



Private Sub create_table_Click()

' create an object srdbase (student records database) of a database type

Dim srdbase As Database

' make sure that the path in the following line points to your database (it's probably something like
'mydocuments\access\student records.mdb)

Set srdbase = OpenDatabase("D:\tom\WP\nOTES\Database Design\ACCESS\PM\2002-2003\web\student records.mdb")

' Create a table with two fields, one field being a primary key.

srdbase.Execute "CREATE TABLE rooms (Rno INTEGER PRIMARY KEY, Room VARCHAR(10));"

srdbase.Close

End Sub

Notes

Private Sub add_room_1_Click()

Dim srdbase As Database

' point to your database

Set srdbase = OpenDatabase("D:\tom\WP\nOTES\Database Design\ACCESS\PM\2002-2003\web\student records.mdb")

' add a record to rooms

srdbase.Execute "INSERT INTO rooms Values (1, 'IT Room 1');"

srdbase.Close

End Sub

Private Sub add_more_data_Click()

Dim srdbase As Database

' point to your database

Set srdbase = OpenDatabase("D:\tom\WP\nOTES\Database Design\ACCESS\PM\2002-2003\web\student records.mdb")

' add more records to rooms

srdbase.Execute "INSERT INTO rooms Values (2, 'IT Room 2');"

srdbase.Execute "INSERT INTO rooms Values (3, 'IT Room 3');"

srdbase.Execute "INSERT INTO rooms Values (4, 'MBB');"

srdbase.Execute "INSERT INTO rooms Values (5, 'IT Room 1');"

srdbase.Execute "INSERT INTO rooms Values (6, 'IT Room 1');"

srdbase.Execute "INSERT INTO rooms Values (7, 'Owen 3');"

srdbase.Execute "INSERT INTO rooms Values (8, 'Owen 4');"

srdbase.Close

End Sub

Private Sub update_record_5_Click()

Dim srdbase As Database

' point to your database

Set srdbase = OpenDatabase("D:\tom\WP\nOTES\Database Design\ACCESS\PM\2002-2003\web\student records.mdb")

' edit record 5

srdbase.Execute "UPDATE rooms SET RoomDescription= 'Room 11' WHERE no=5;"

srdbase.Close

End Sub

Private Sub Delete_record_6_Click()

Dim srbase As Database

‘ point to your database

Set srbase = OpenDatabase("D:\tom\WP\nOTES\Database Design\ACCESS\PM\2002-2003\web\student records.mdb")

‘ delete record 6

srbase.Execute "DELETE FROM rooms WHERE rno=6;"

srbase.Close

End Sub