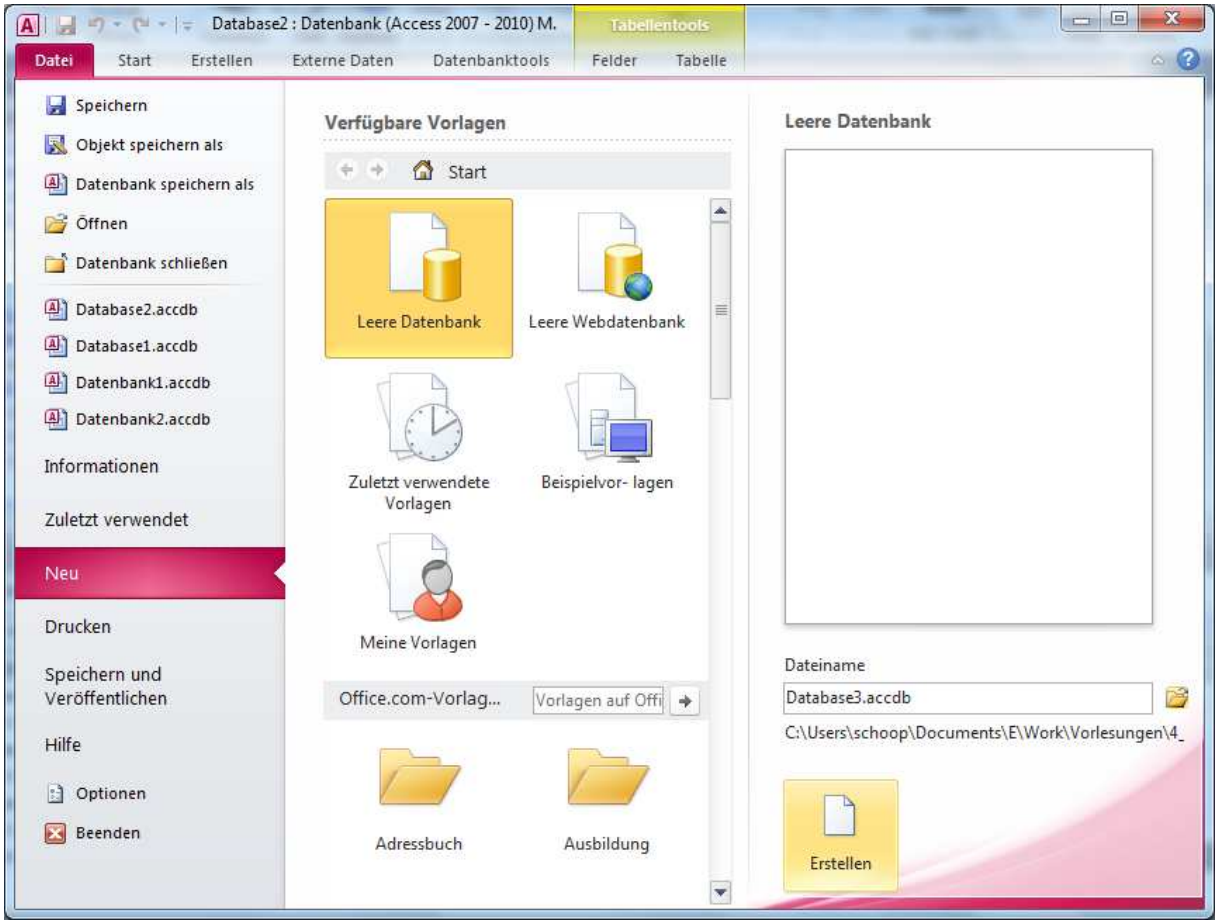
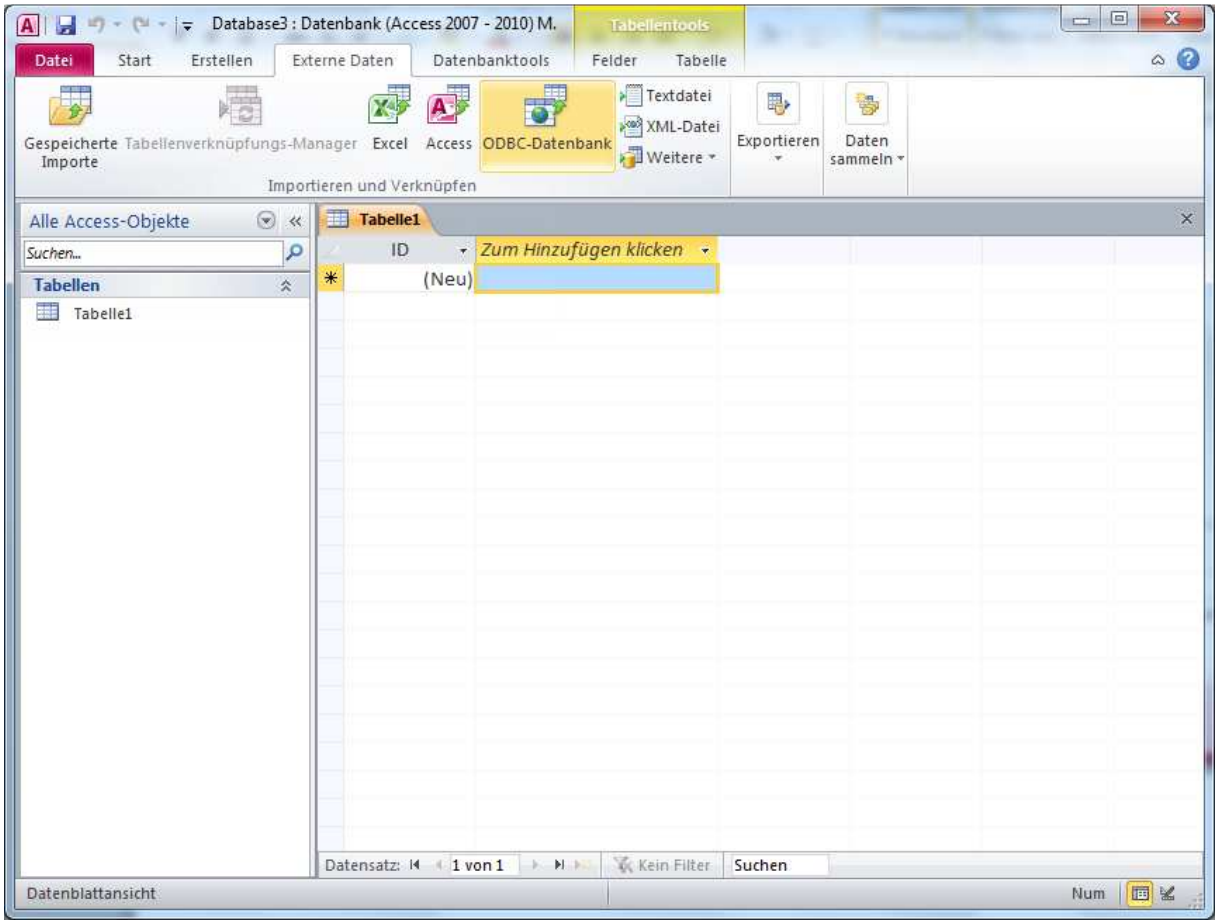
Information Systems Lab

Microsoft Access 2010 Howto

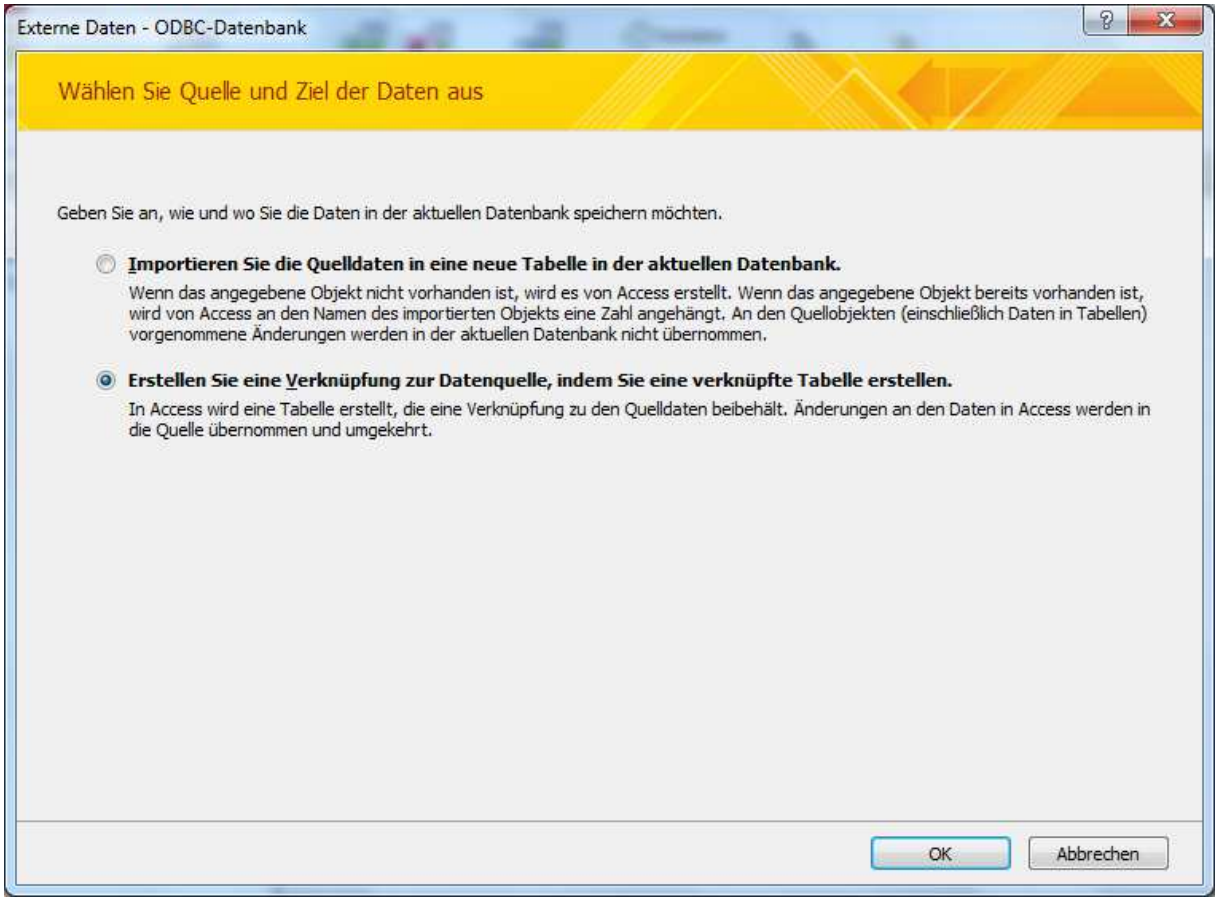
Start MS Access and open a new empty database.



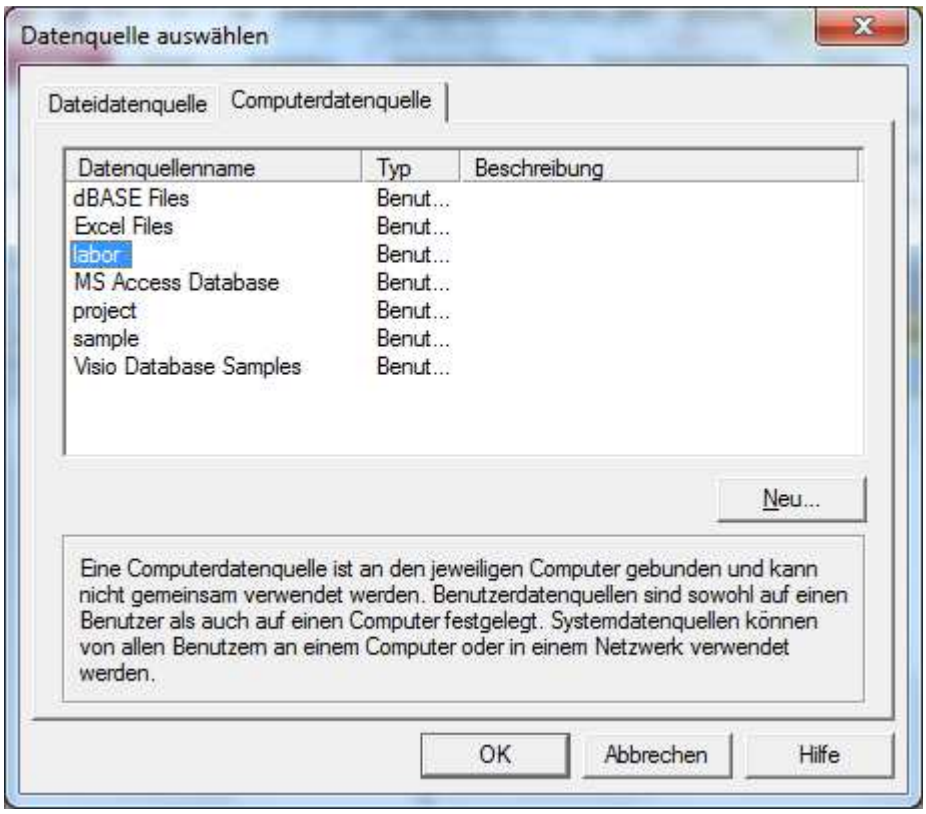
The database might contain just one empty table. We do not want to store any tables in Access. Access only serves as the GUI to our database application in the IBM DB2 database. Therefore, “Externe Daten” → “ODBC-Datenbank.”



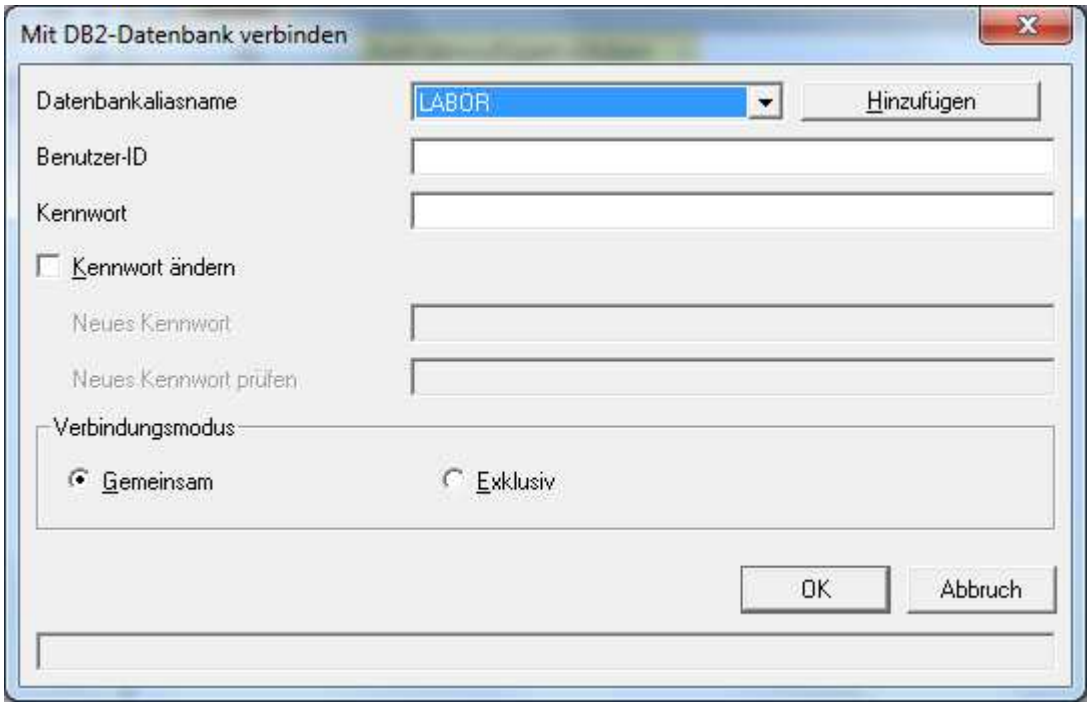
Choose “Erstellen Sie eine Verknüpfung …”.



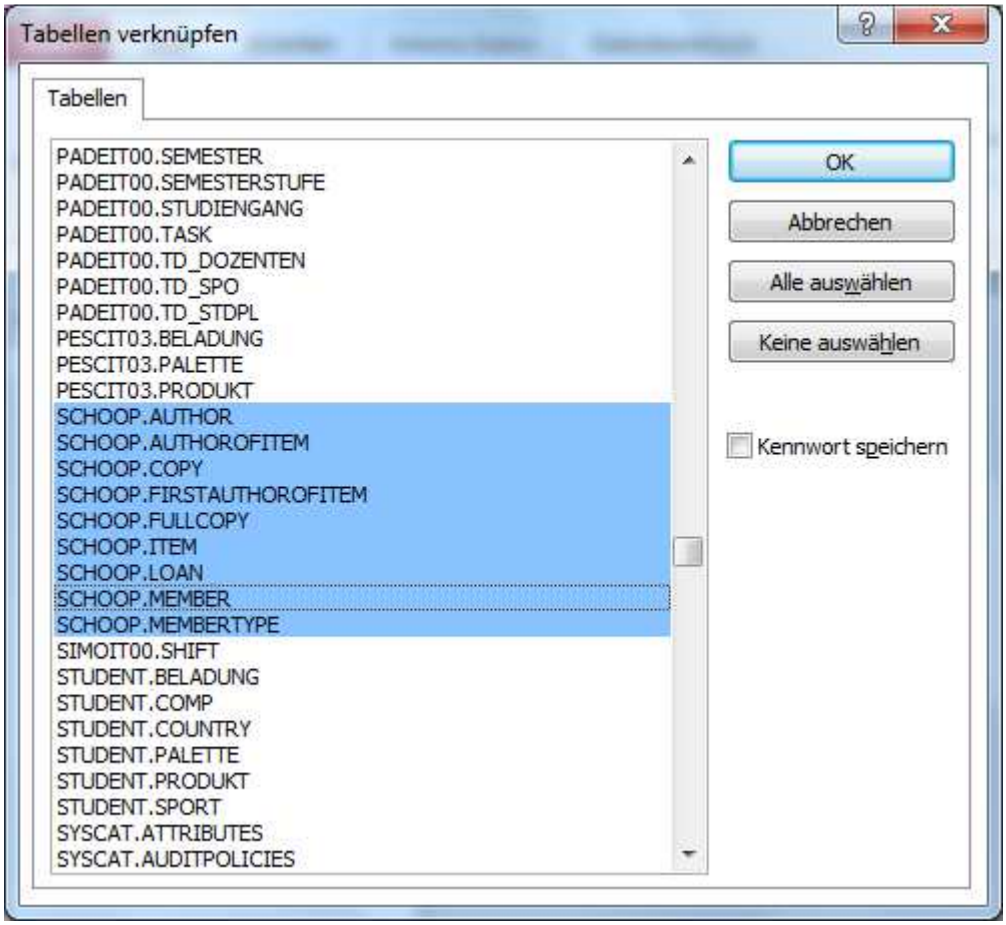
Choose “labor” as the “Computerdatenquelle”.



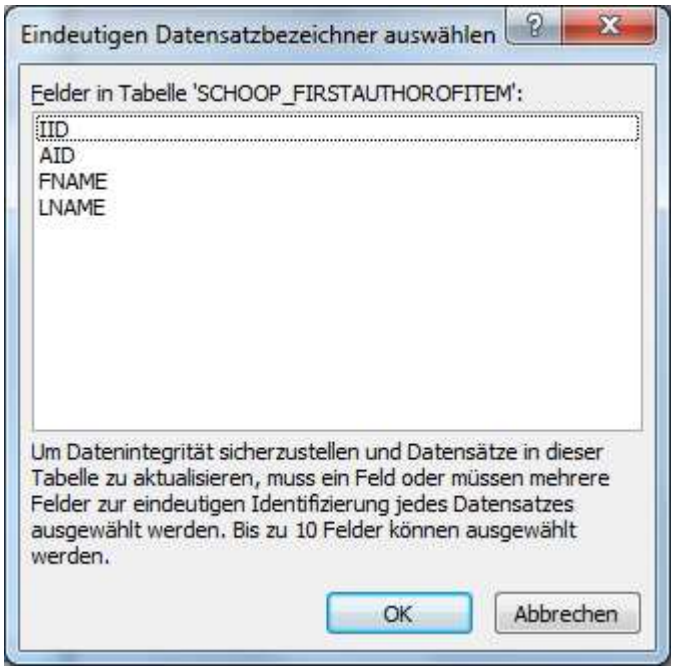
Accept the connection to the database.



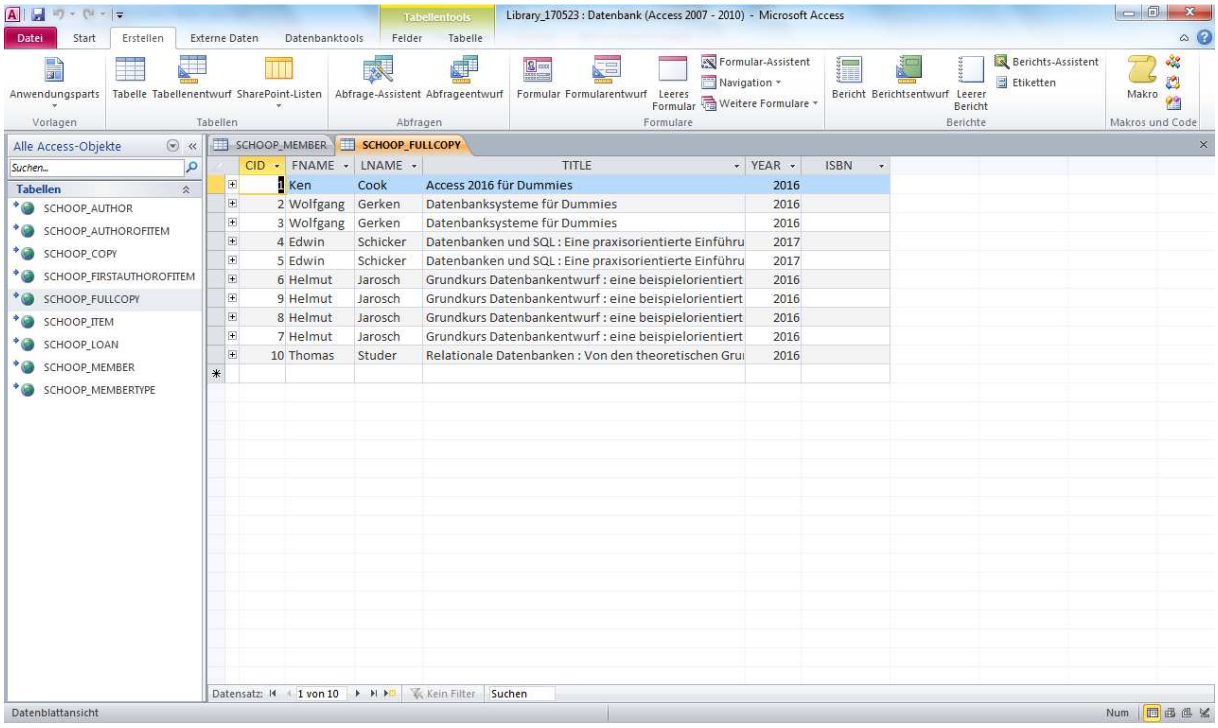
You are being offered all tables in the database. Choose the tables/views you need.



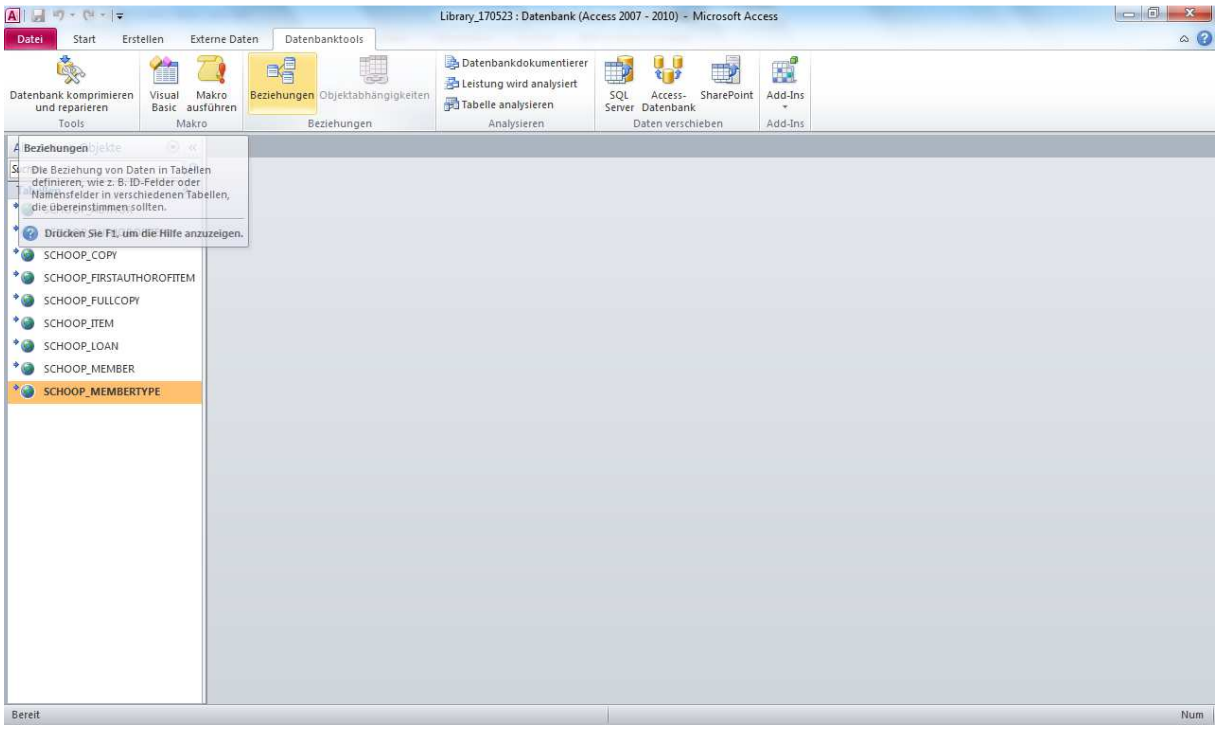
Some views may miss a primary key. You can choose which attributes should serve as primary key.



The tables and views are imported into Access (left panel). A double click will open the data view. You can now enter test data into your tables if necessary.

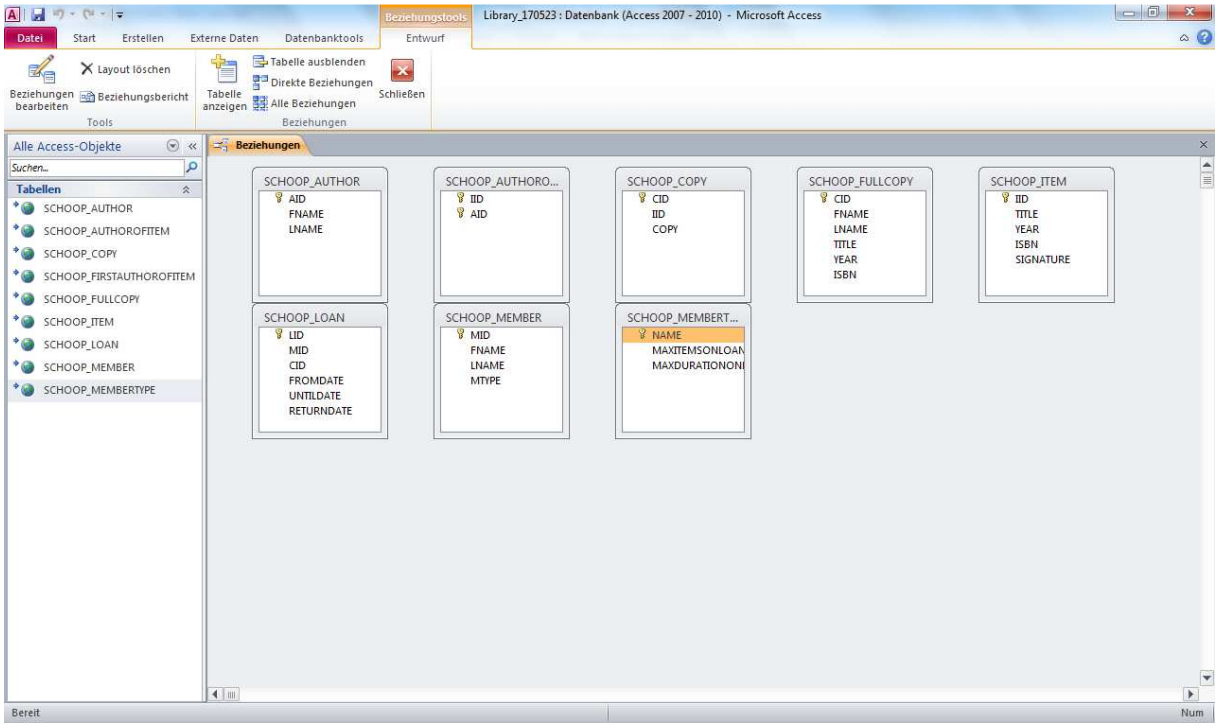


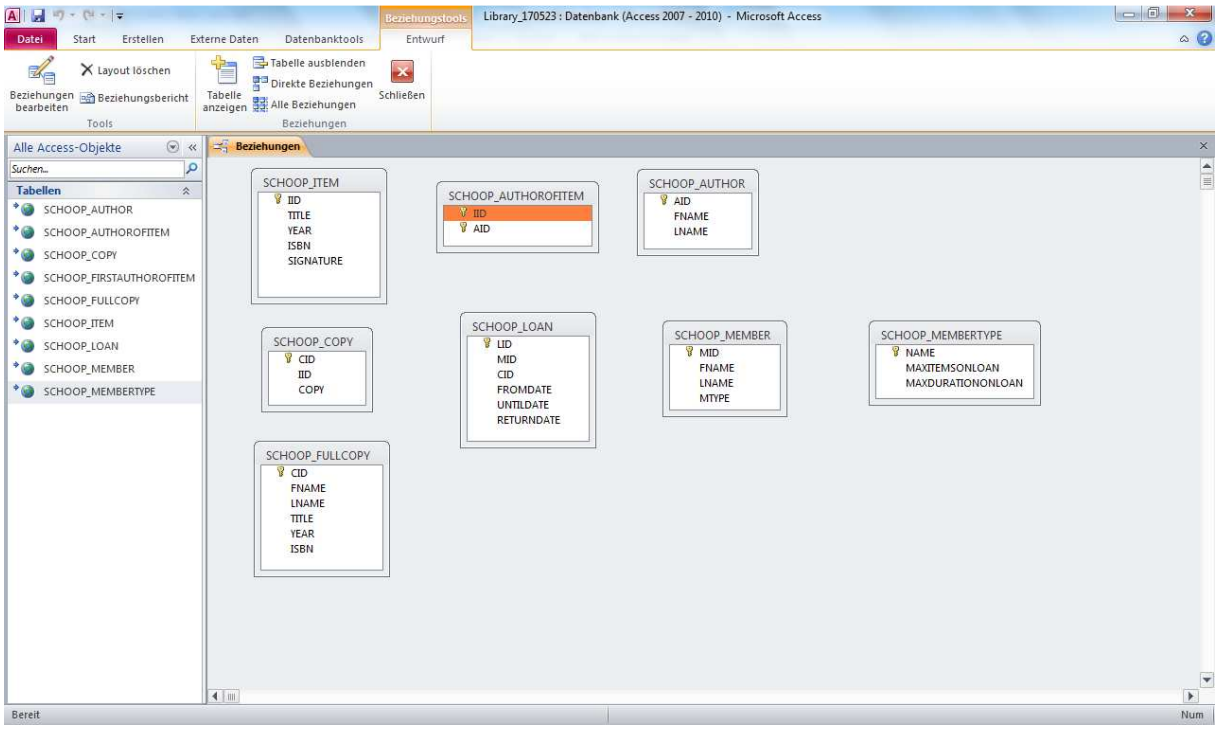
It is now time to reconstruct the foreign keys. Click on “Datenbanktools” → “Beziehungen”.



You are asked which tables/views you want to have in your overview. Choose the ones you need.

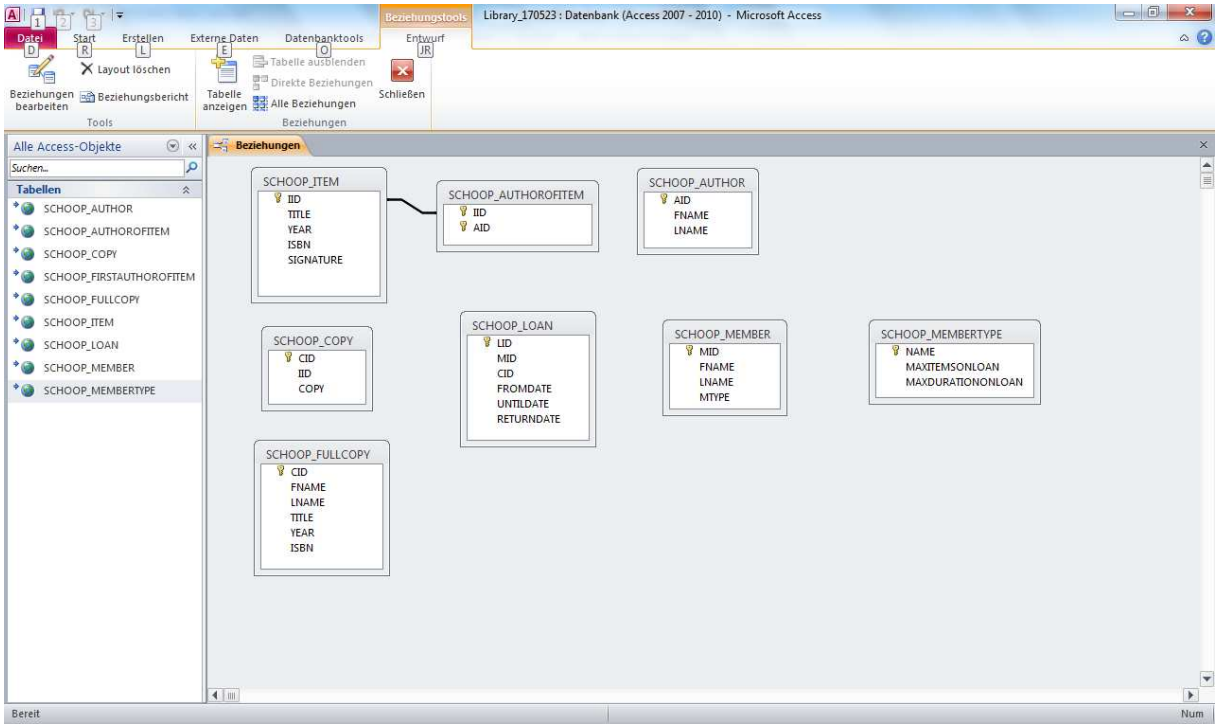
Rearrange the tables to your liking. Then click on a foreign key and keeping the button pressed link it to the correct primary key.

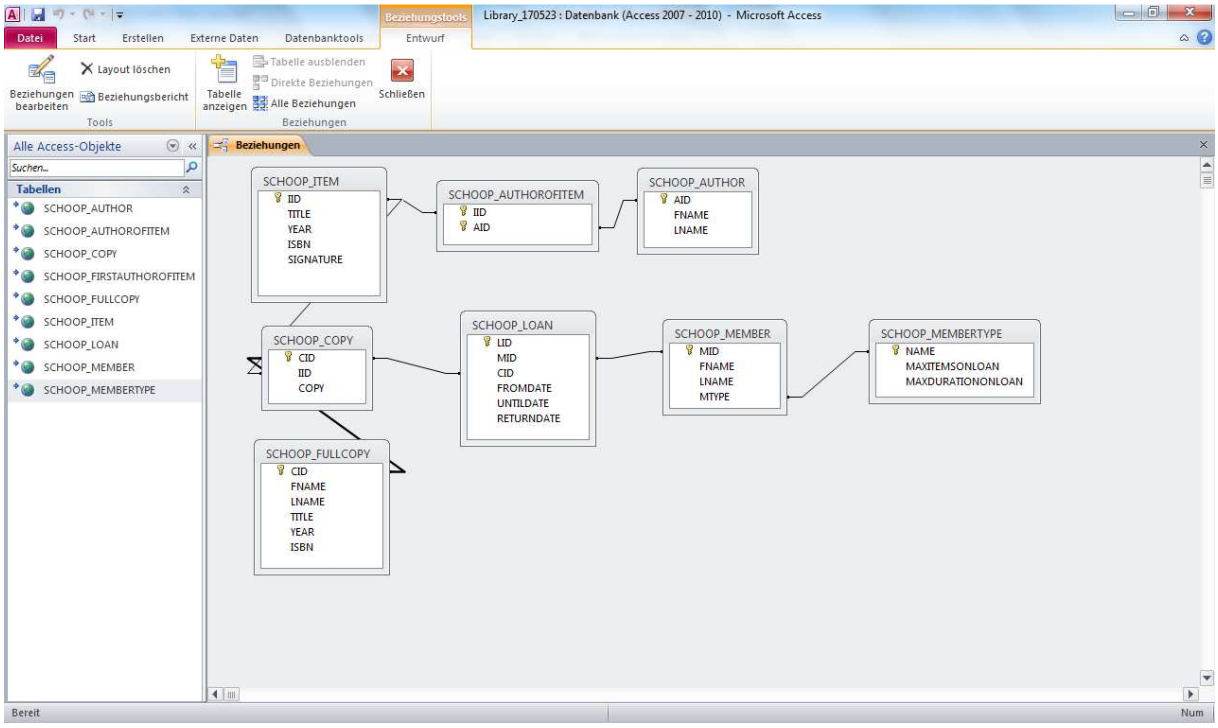




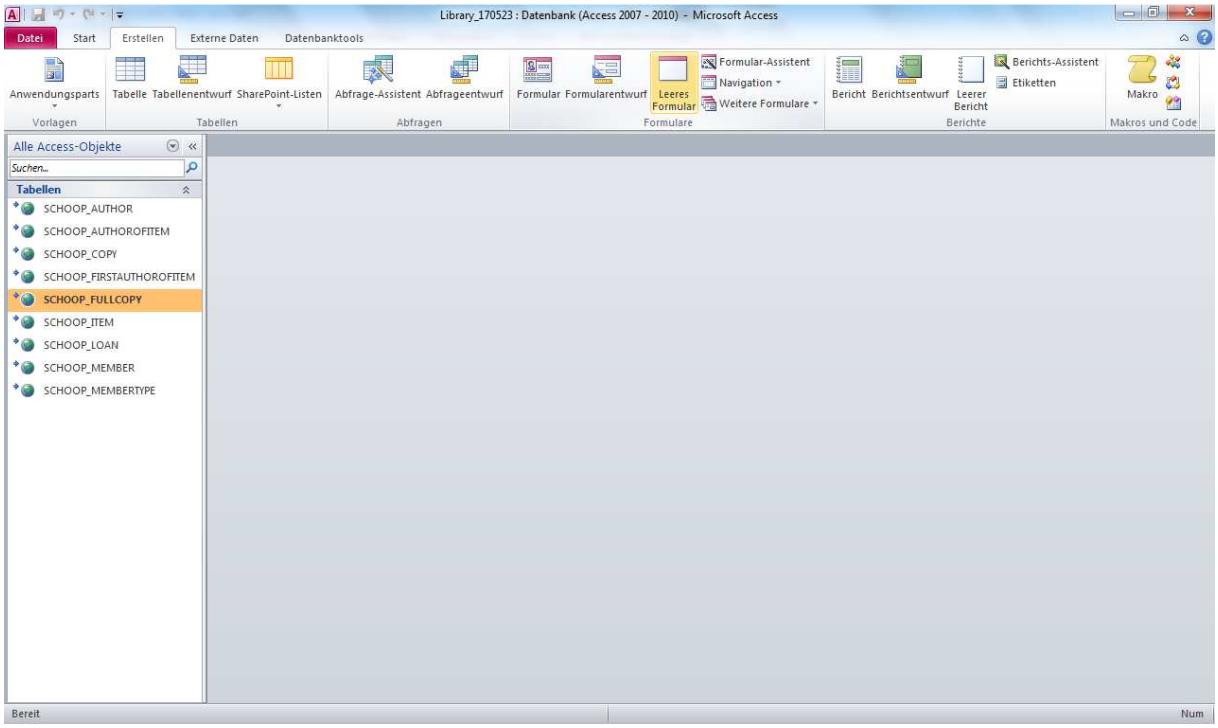
You are asked if the relation is correct. You can change the attributes when necessary.

Beziehungen bearbeiten
Tabelle/Abfrage:
Verwandte Tabelle/Abfrage:
SCHOOP_AUTHOROFI
SCHOOP_ITEM
IID
IID
Erstellen
Abbrechen
Verknüpfungstyp...
Neue erstellen...
Mit referentieller Integrität
Aktualisierungsweitergabe an verwandte Felder
Löschweitergabe an verwandte Datensätze
Beziehungstyp:
Undefiniert

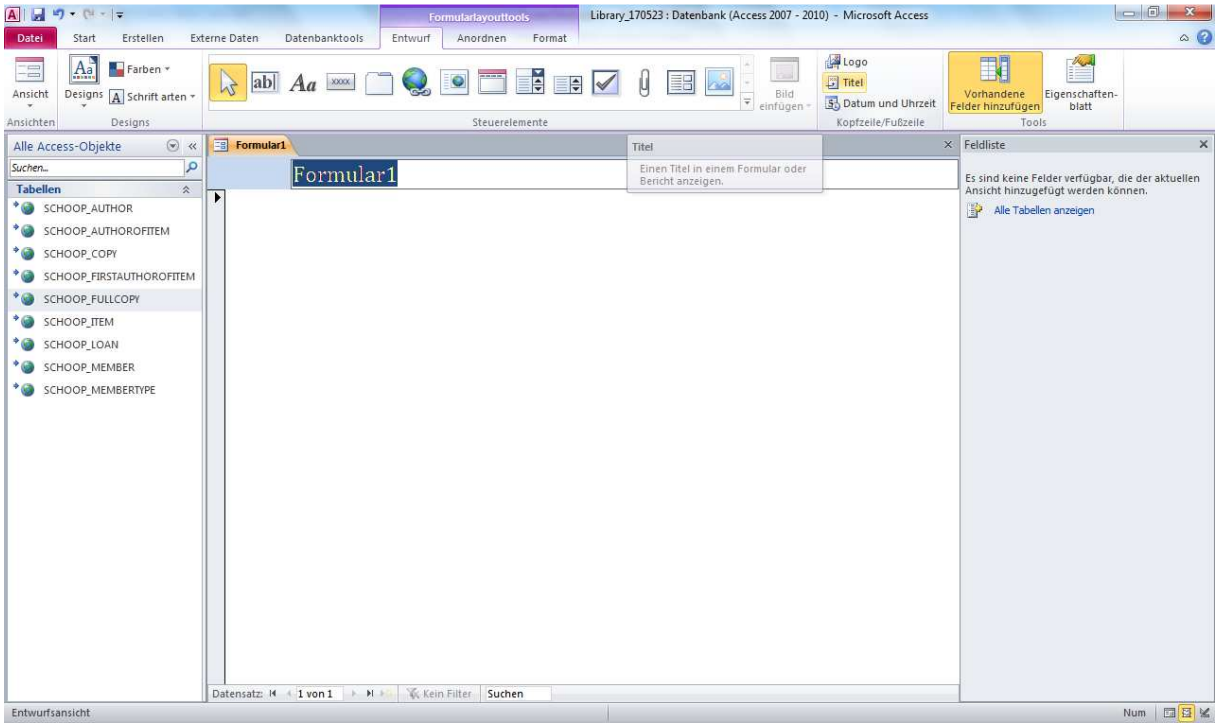

Library_170523 : Datenbank (Access 2007 - 2010) - Microsoft Access
Datei
Start
Erstellen
Externe Daten
Datenbanktools
Beziehungstools
Entwurf
Beziehungen bearbeiten
Layout löschen
Beziehungsbericht
Tools
Tabelle anzeigen
Tabelle ausblenden
Direkte Beziehungen
Alle Beziehungen
Beziehungen
Schließen
Alle Access-Objekte
Suchen...
Tabellen
SCHOOP_AUTHOR
SCHOOP_AUTHOROFITEM
SCHOOP_COPY
SCHOOP_FIRSTAUTHOROFITEM
SCHOOP_FULLCOPY
SCHOOP_ITEM
SCHOOP_LOAN
SCHOOP_MEMBER
SCHOOP_MEMBERTYPE
Beziehungen
SCHOOP_ITEM
IID
TITLE
YEAR
ISBN
SIGNATURE
SCHOOP_AUTHOROFITEM
IID
AID
SCHOOP_AUTHOR
AID
FNAME
LNAME
SCHOOP_COPY
CID
IID
COPY
SCHOOP_LOAN
LID
MID
CID
FROMDATE
UNTILDATE
RETURNDATE
SCHOOP_MEMBER
MID
FNAME
LNAME
MTYPE
SCHOOP_MEMBERTYPE
NAME
MAXITEMSONLOAN
MAXDURATIONONLOAN
SCHOOP_FULLCOPY
CID
FNAME
LNAME
TITLE
YEAR
ISBN
Bereit
Num



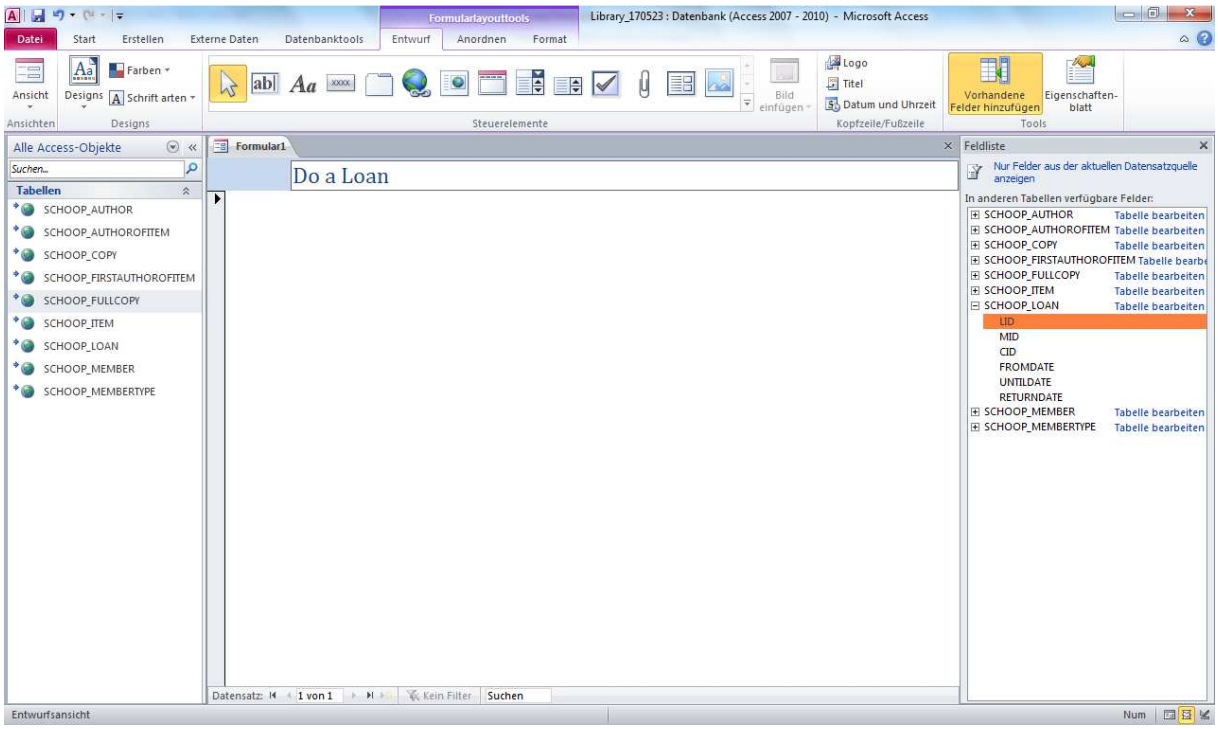
It´s time to start with the GUI. Click on “Erstellen” → “Leeres Formular”.



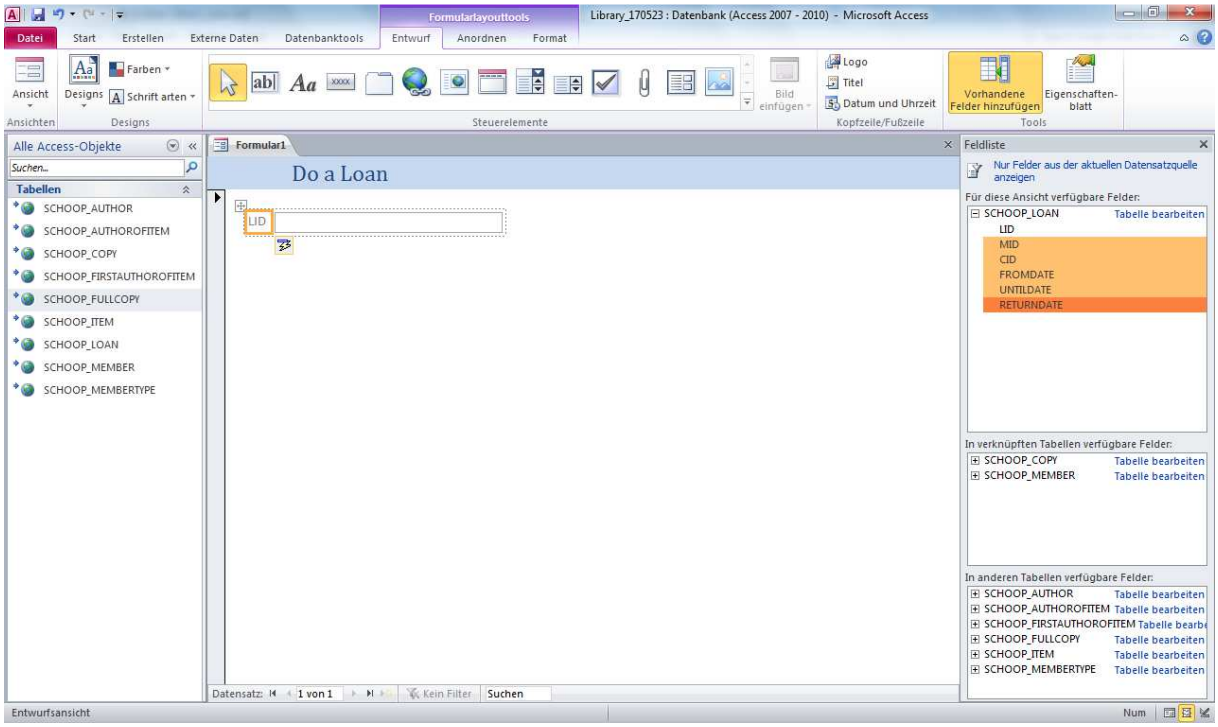
You get an empty formular. You can add a title (as well as a logo).

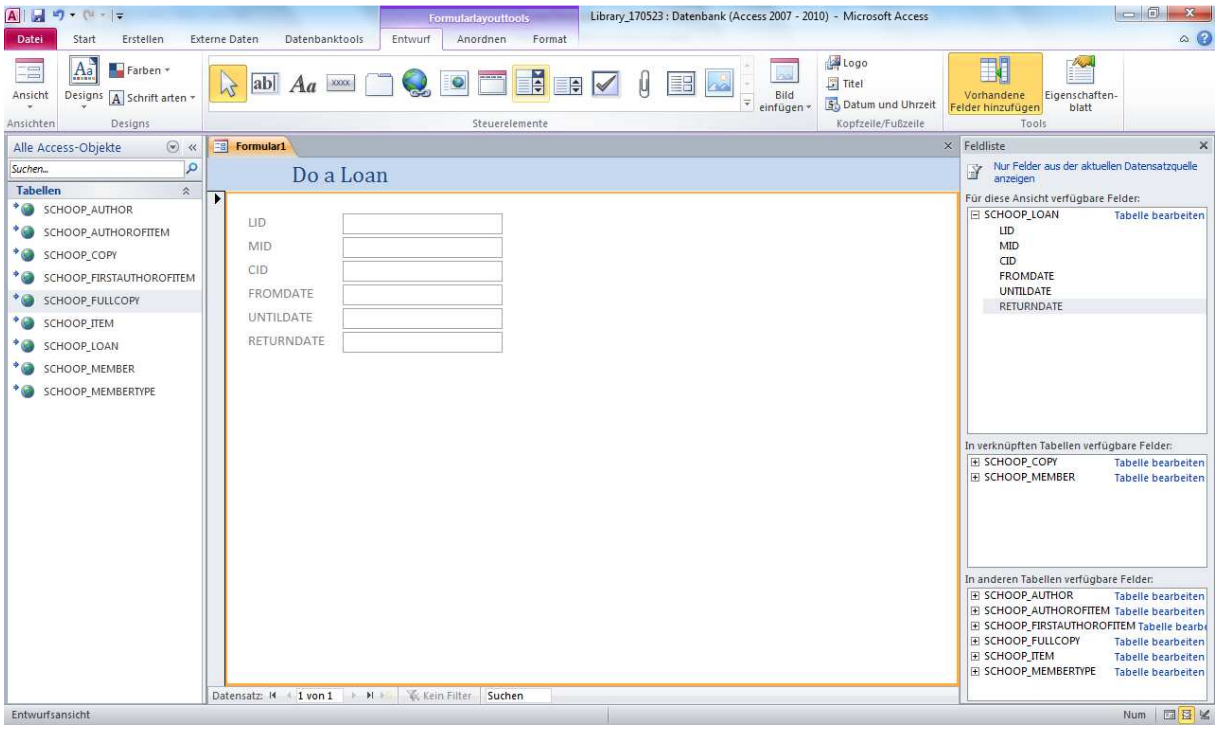


On the right, choose a table and an attribute you want to see in the formular. Drag it into the form.



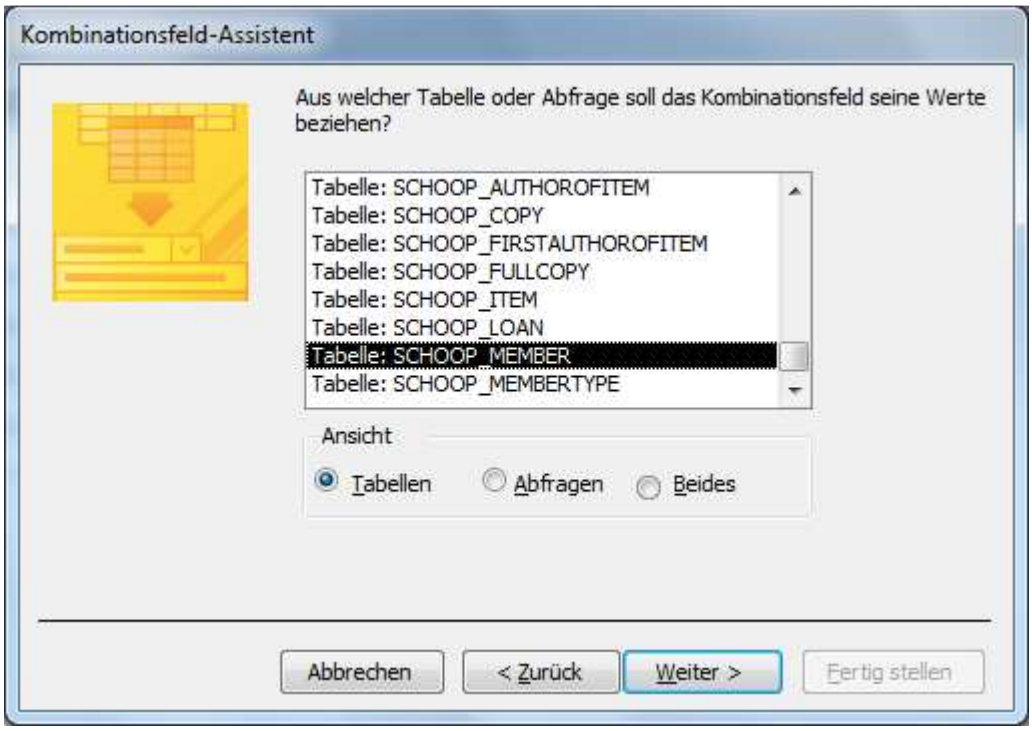
Once you have dragged one attribute in, the table and its attributes appear on the right on top. Now you can drag all other attributes of the table into the form.





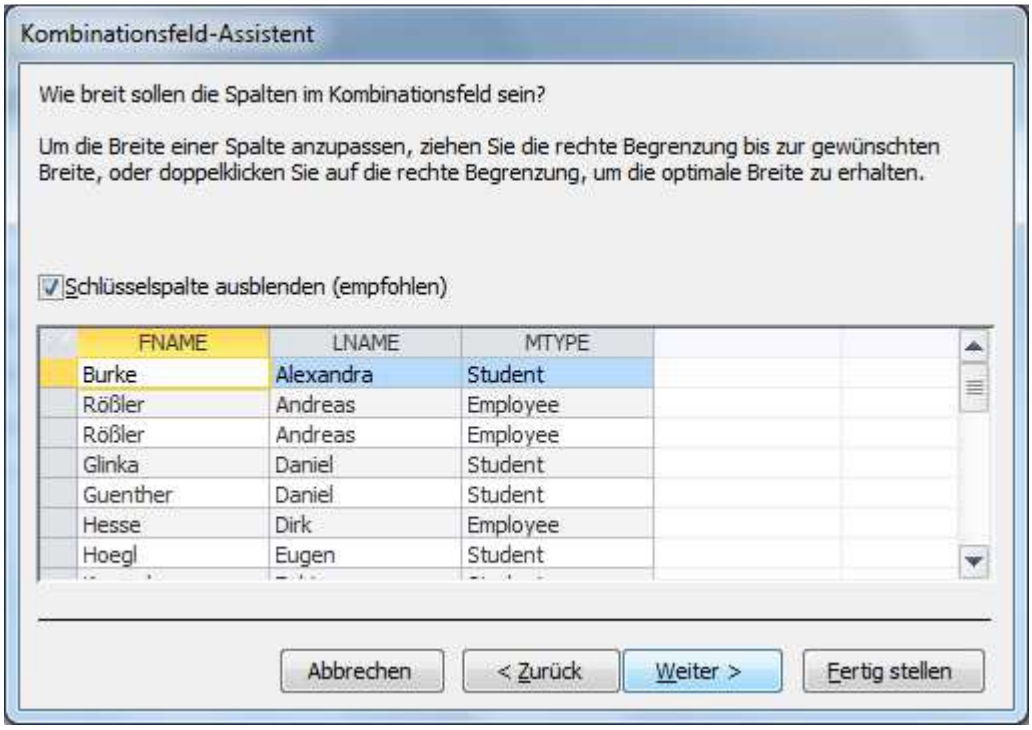
In order to reference data from other tables, one can use “Kombinationsfeld”. After you have dragged it into the form, choose a table´s contents as its content.

Choose the table and attributes.



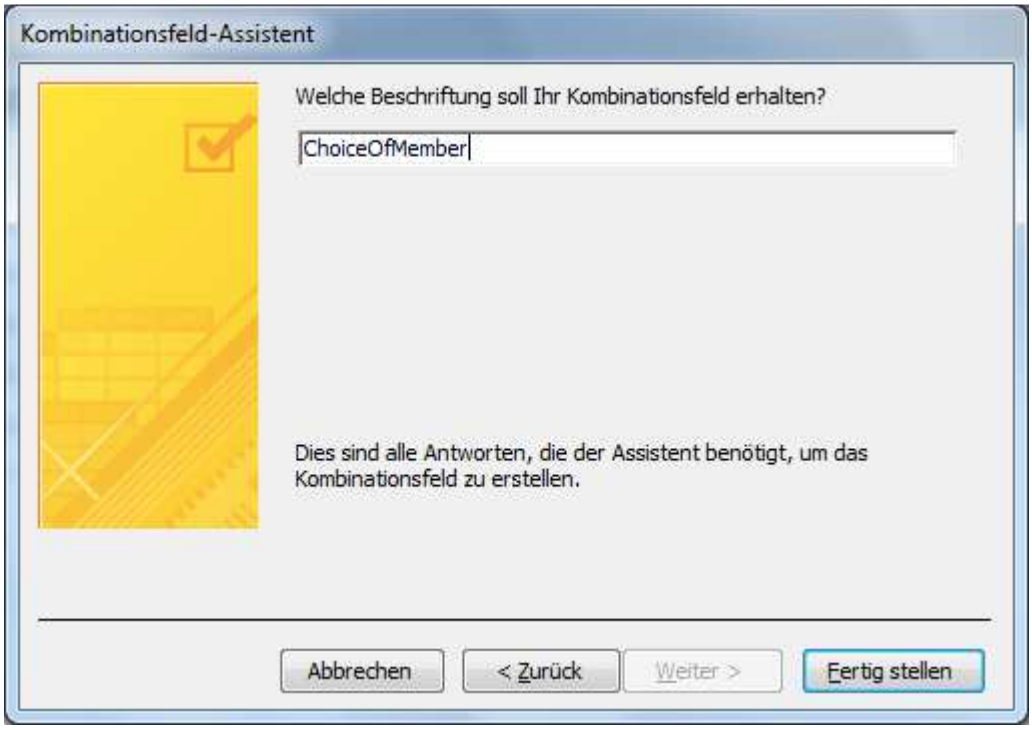
You can choose in which order the data will be displayed.

You get a preview in which you can change the widths of the columns.

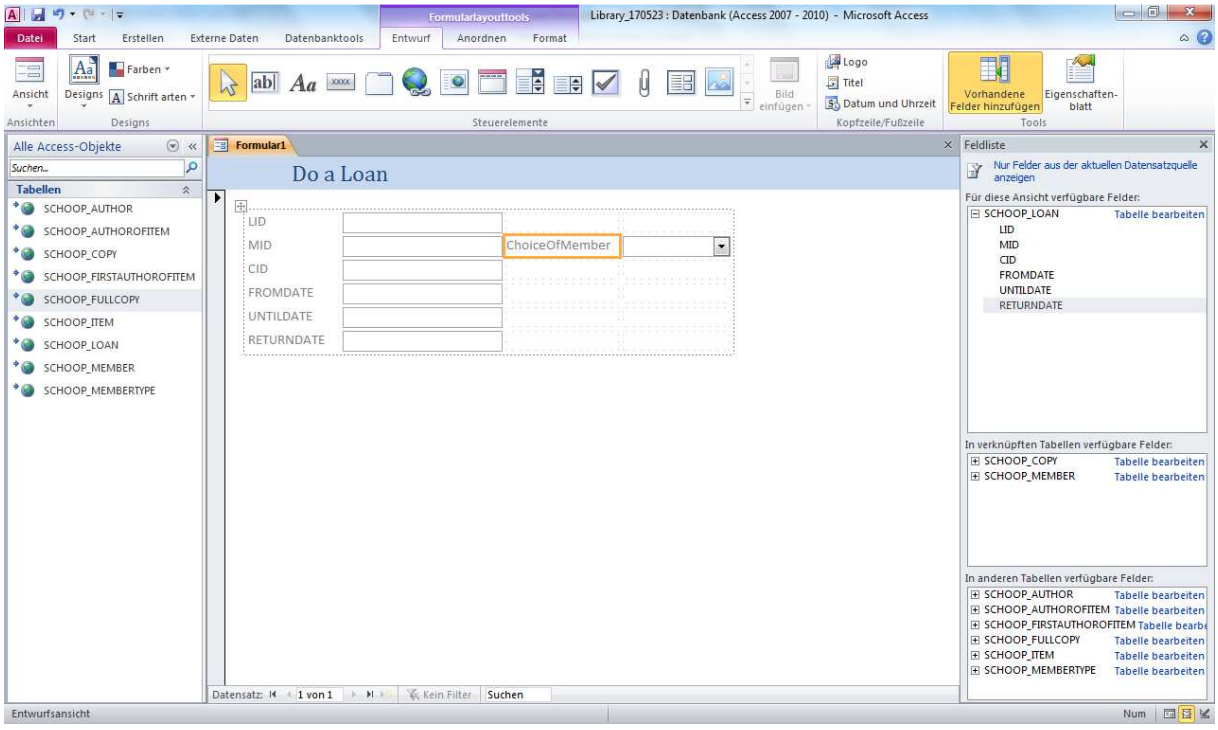


You get the chance to link an attribute from your “Kombinationsfeld” to one other attribute in the form.

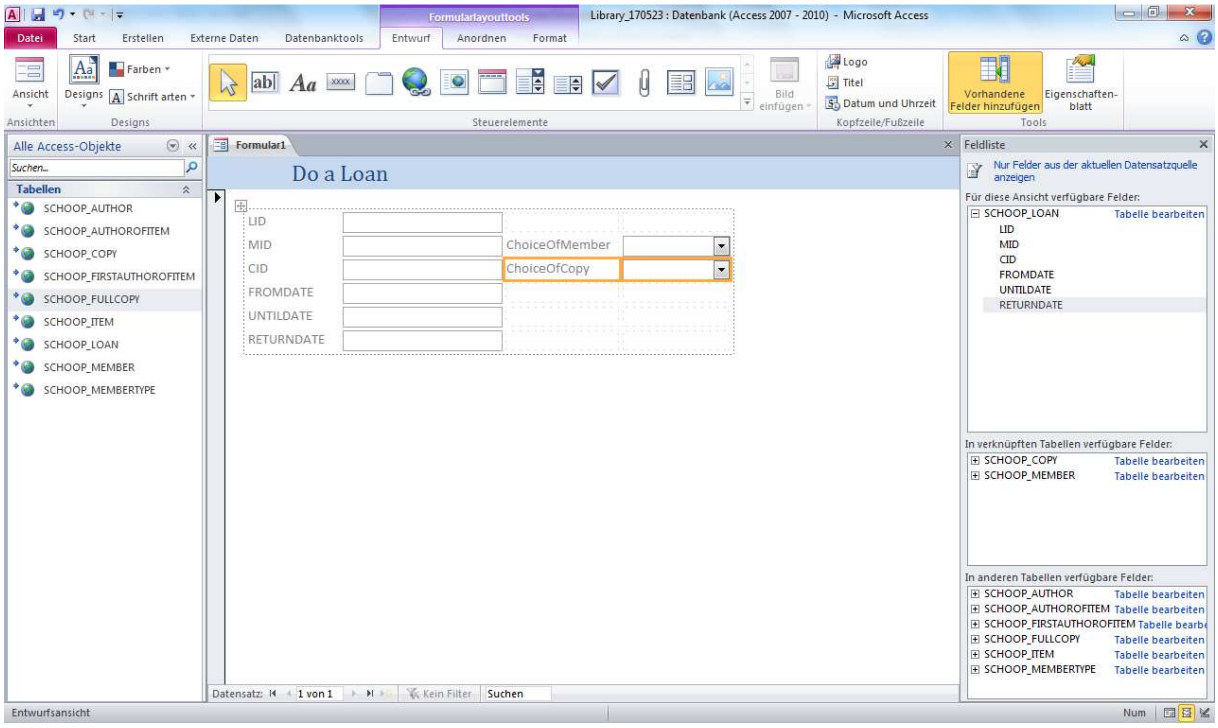
Choose a sensible text for your field.



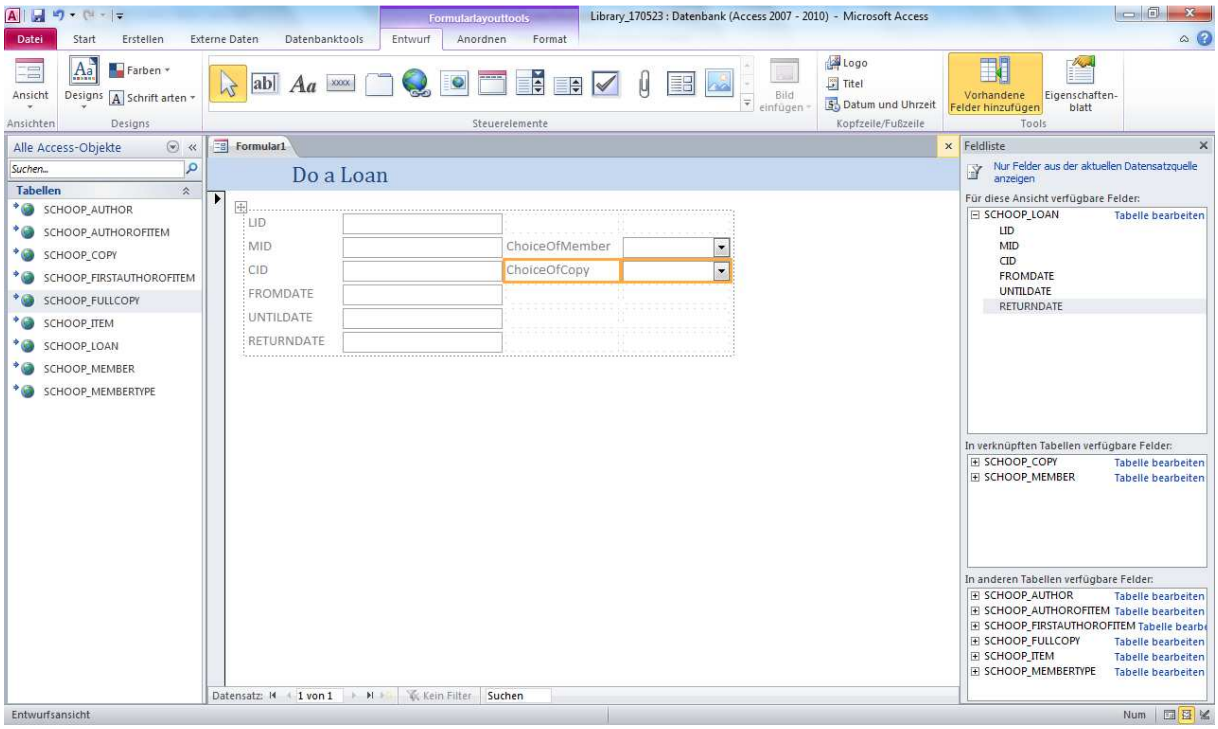
This is how it looks like in the form layouter.



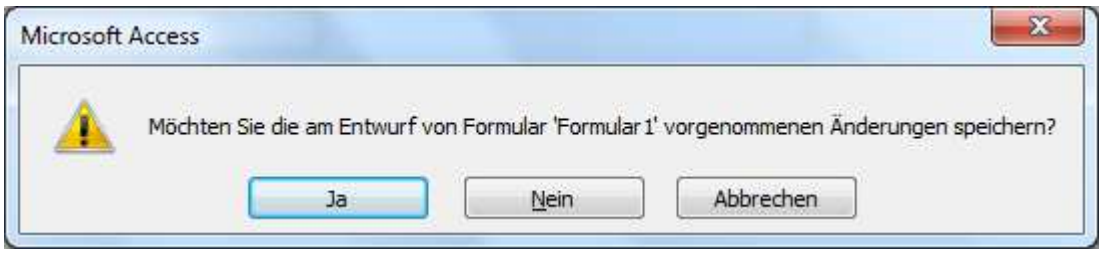
A second one has been added.



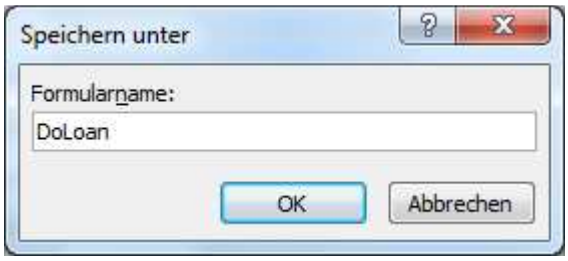
Close the form by clicking on the X in right upper corner of the form.



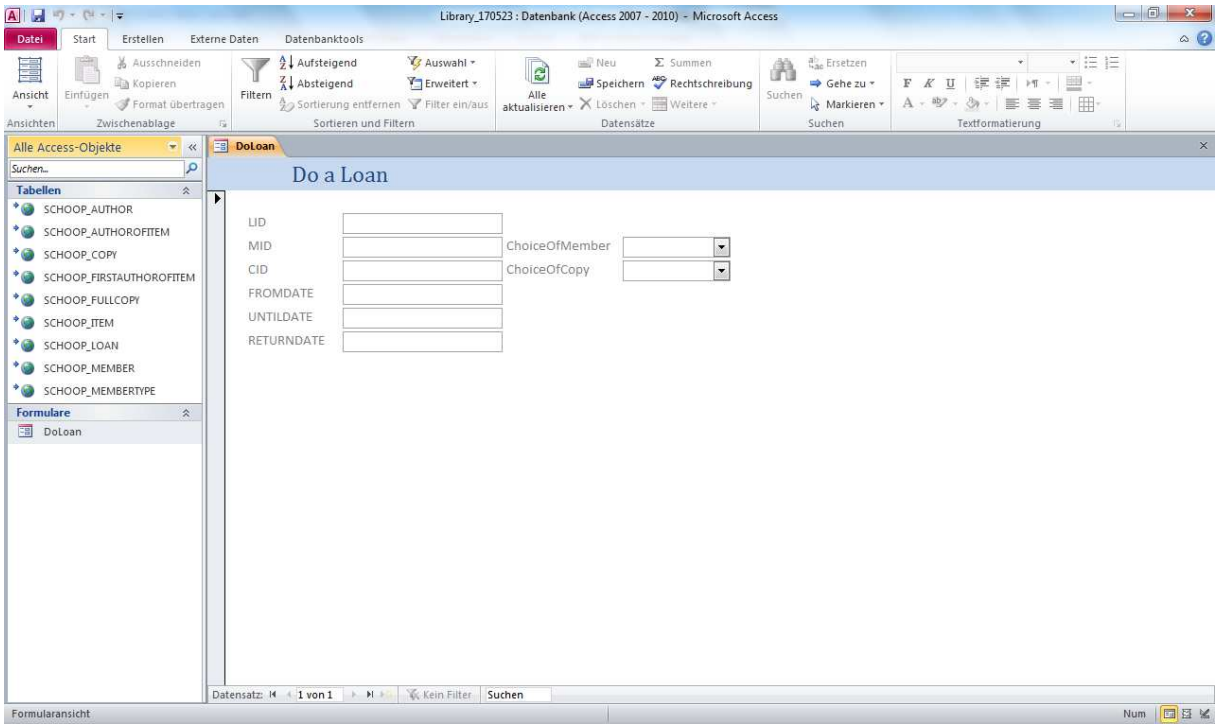
Safe the form …



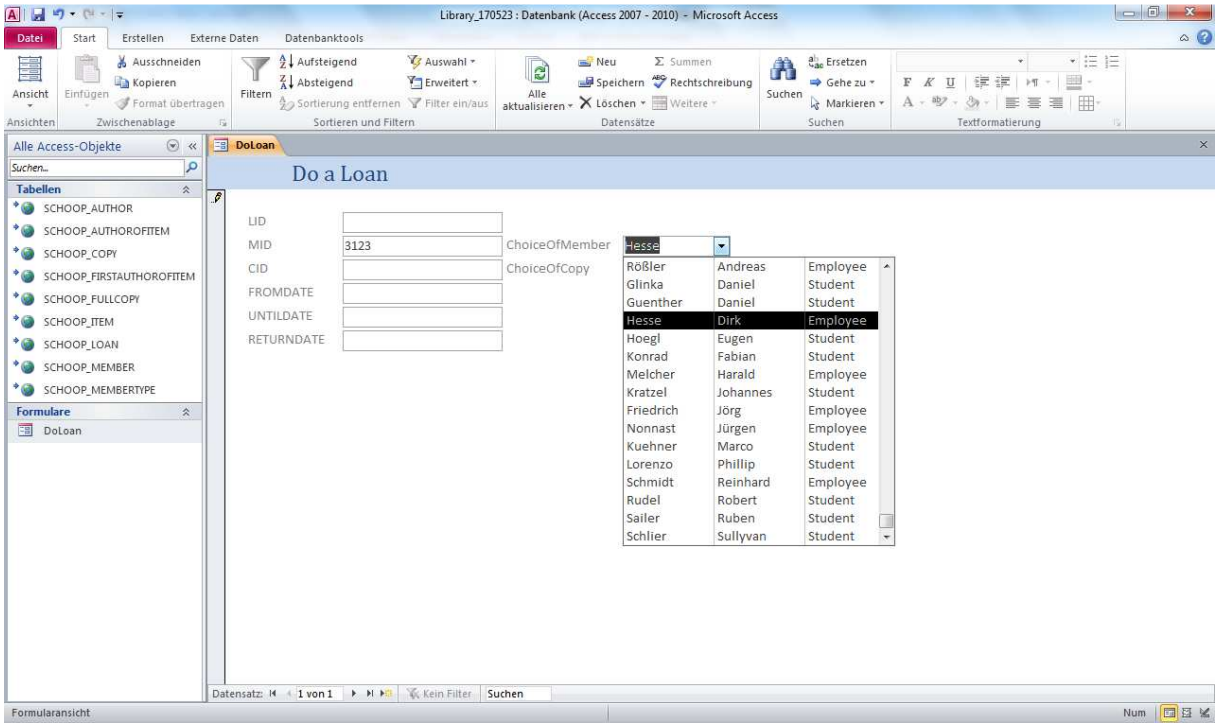
… and give it a sensible name.



When you open the form again you are in input mode. You can used the form to input data.



The choice from the “Kombinationsfeld” is reflected in the linked attaribute.


Library_170523 : Datenbank (Access 2007 - 2010) - Microsoft Access
Datei
Start
Erstellen
Externe Daten
Datenbanktools
Ansicht
Einfügen
Ausschneiden
Kopieren
Format übertragen
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Sortierung entfernen
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Neu
Speichern
Löschen
Summen
Rechtschreibung
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Suchen
Ersetzen
Gehe zu
Markieren
Ansichten
Zwischenablage
Sortieren und Filtern
Datensätze
Suchen
Textformatierung
Alle Access-Objekte
Suchen...
Tabellen
SCHOOP_AUTHOR
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ChoiceOfCopy
Rößler Andreas Employee
Glinka Daniel Student
Guenther Daniel Student
Hesse Dirk Employee
Hoegl Eugen Student
Konrad Fabian Student
Melcher Harald Employee
Kratzel Johannes Student
Friedrich Jörg Employee
Nonnast Jürgen Employee
Kuehner Marco Student
Lorenzo Phillip Student
Schmidt Reinhard Employee
Rudel Robert Student
Sailer Ruben Student
Schlier Sullyvan Student
Datensatz: 1 von 1
Kein Filter
Suchen
Formularansicht
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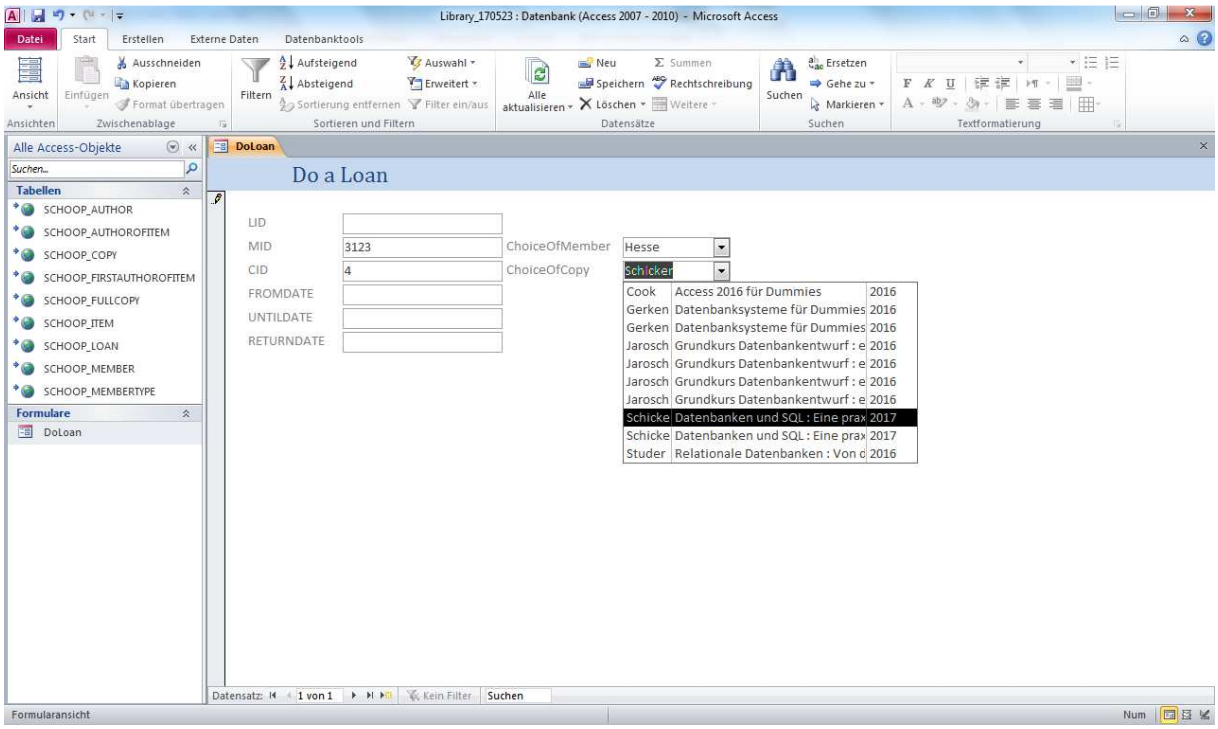
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Weitere
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Markieren
Ansichten
Zwischenablage
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Datensätze
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Tabellen
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SCHOOP_MEMBERTYPE
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DoLoan
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3123
CID
4
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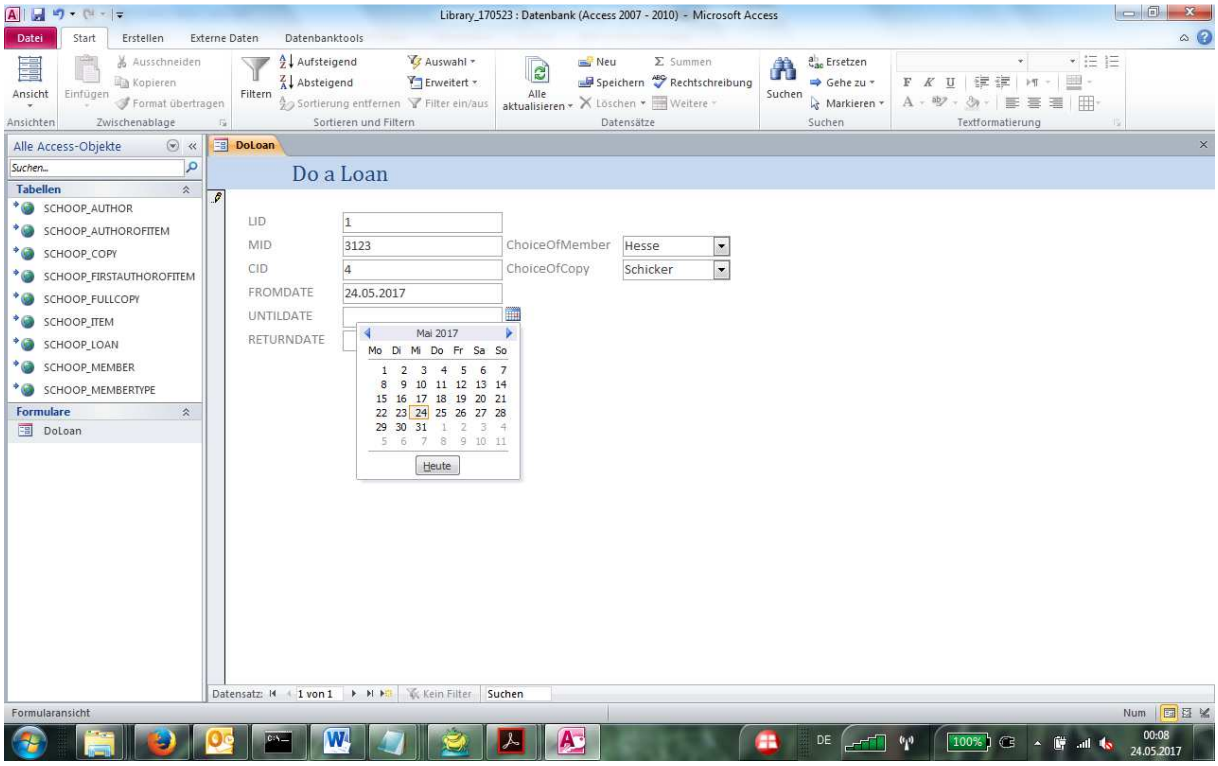
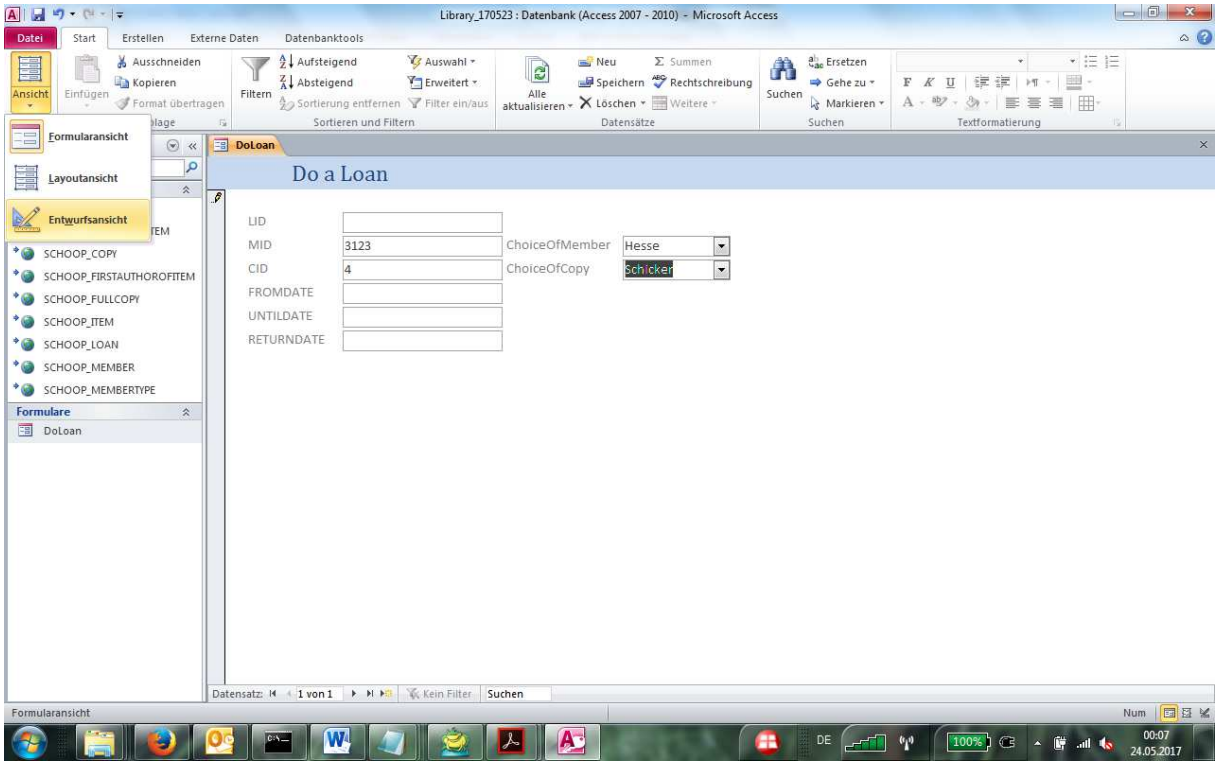
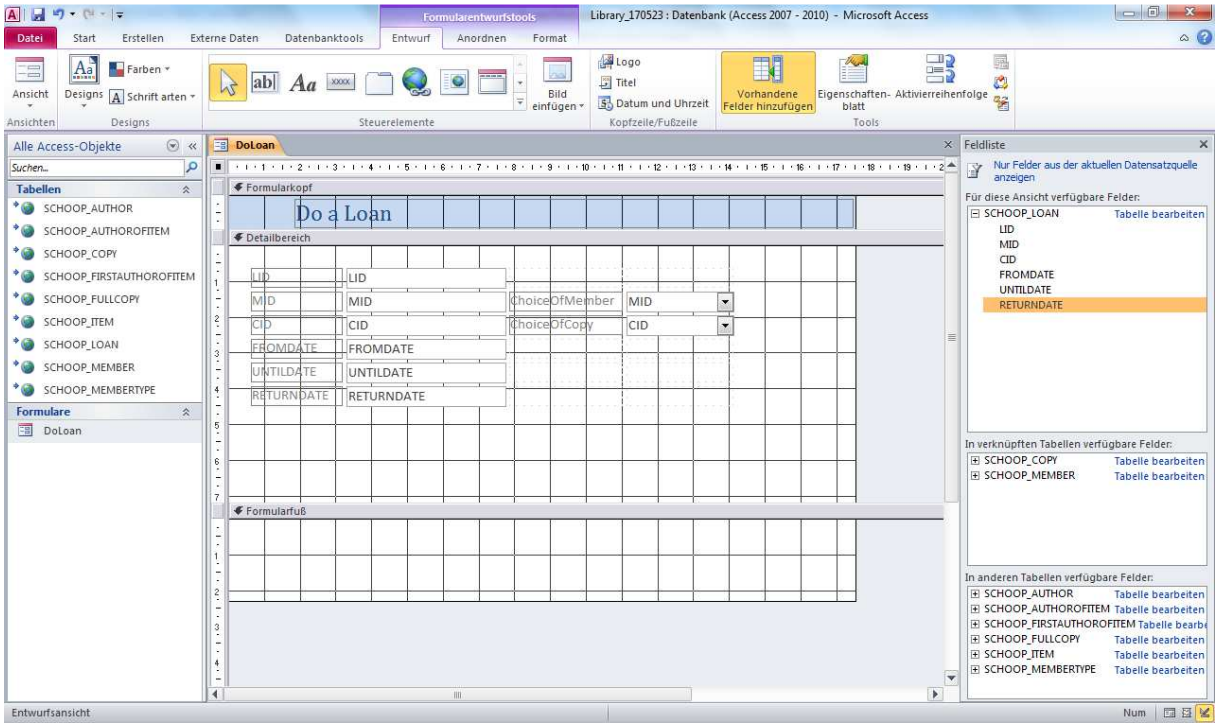
UNTILDATE
RETURNDATE
ChoiceOfMember
Hesse
ChoiceOfCopy
Schicker
Cook Access 2016 für Dummies 2016
Gerken Datenbanksysteme für Dummies 2016
Gerken Datenbanksysteme für Dummies 2016
Jarosch Grundkurs Datenbankentwurf : e 2016
Jarosch Grundkurs Datenbankentwurf : e 2016
Jarosch Grundkurs Datenbankentwurf : e 2016
Jarosch Grundkurs Datenbankentwurf : e 2016
Schicke Datenbanken und SQL : Eine prax 2017
Schicke Datenbanken und SQL : Eine prax 2017
Studer Relationale Datenbanken : Von d 2016
Datensatz: 1 von 1
Kein Filter
Suchen
Formularansicht
Num

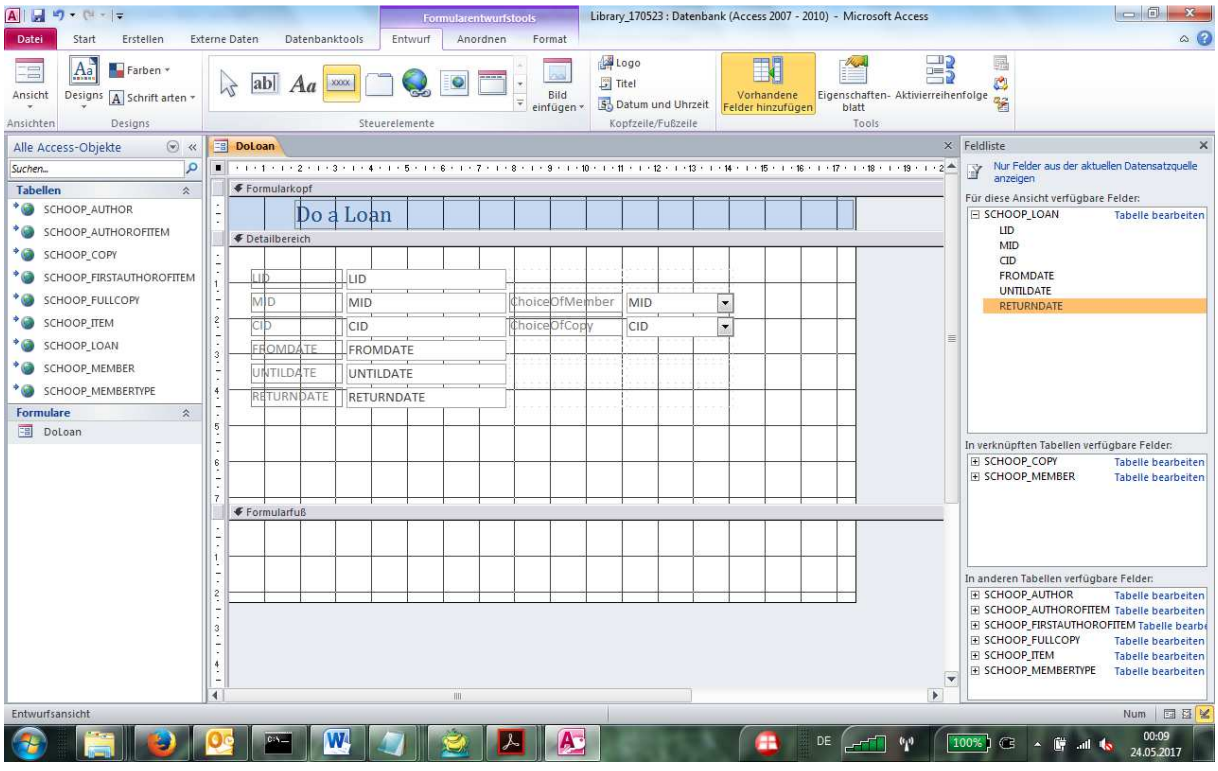


Unfortunately, you have to type in a lot of data. Therefore, let´s automate some of it. Open the “Entwurfsansicht” (top left).

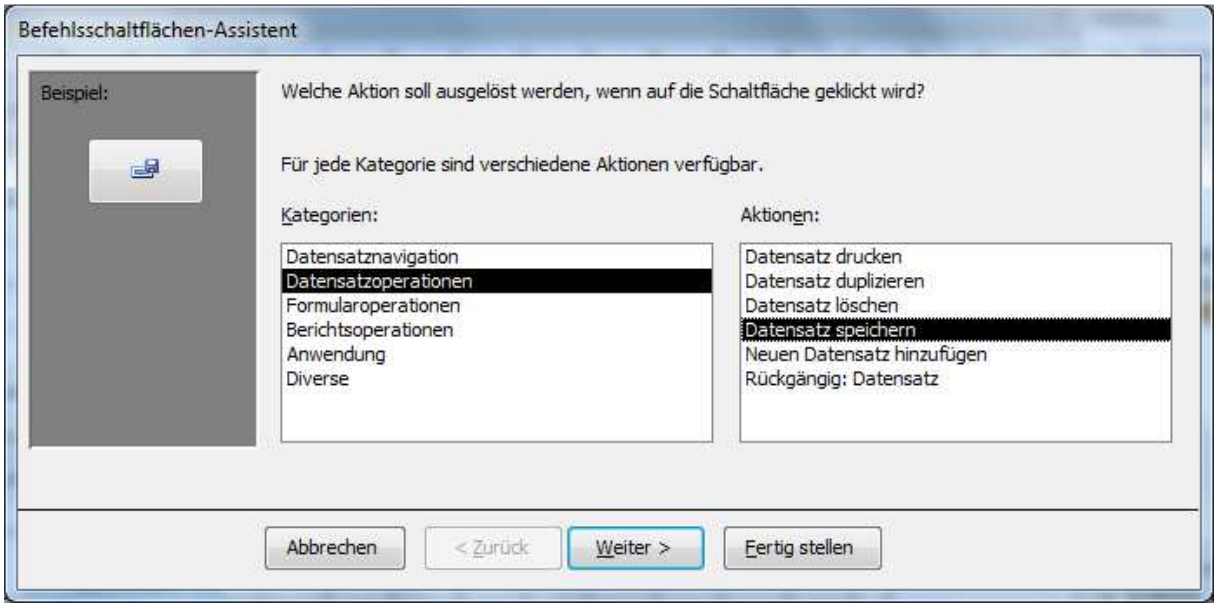


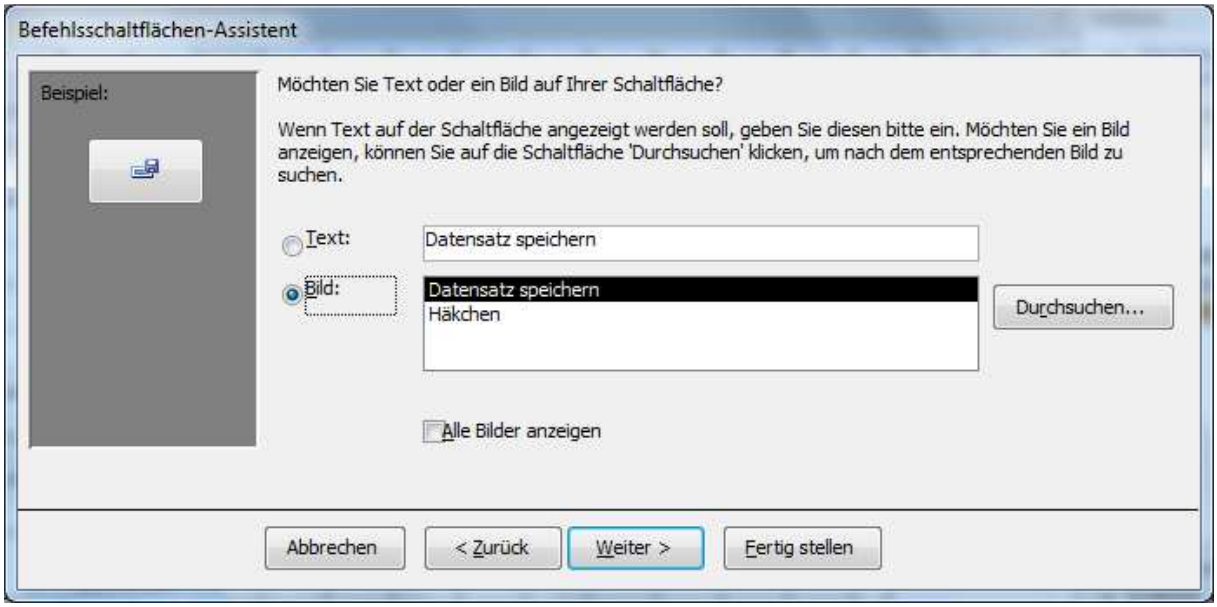


Select a “Schaltfläche” (button) and drag it into the form.

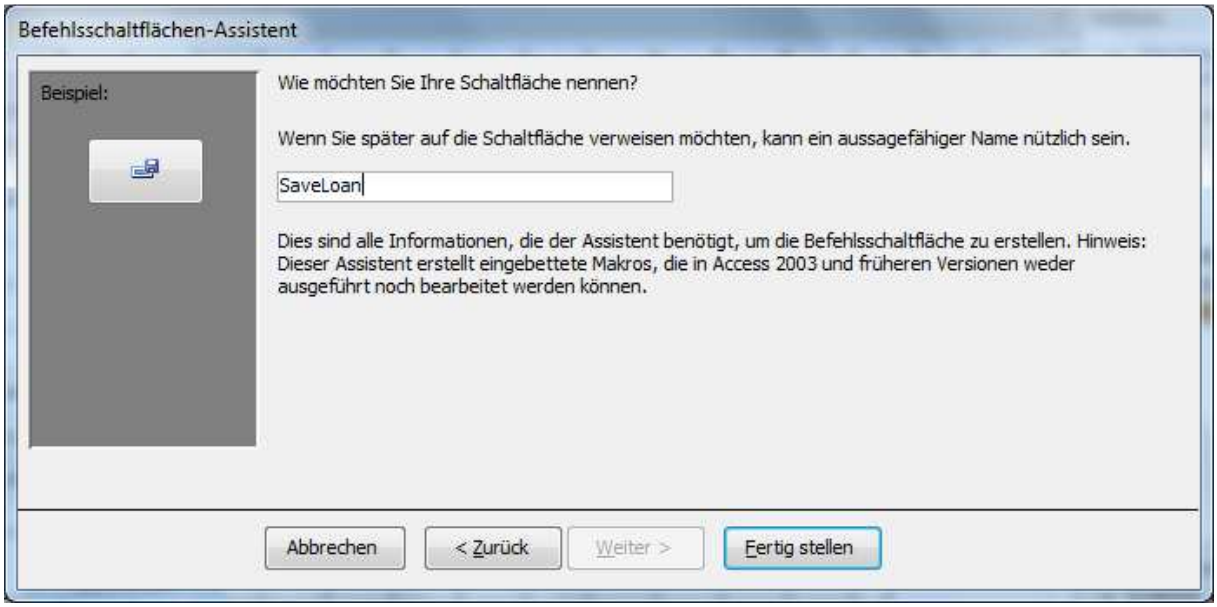


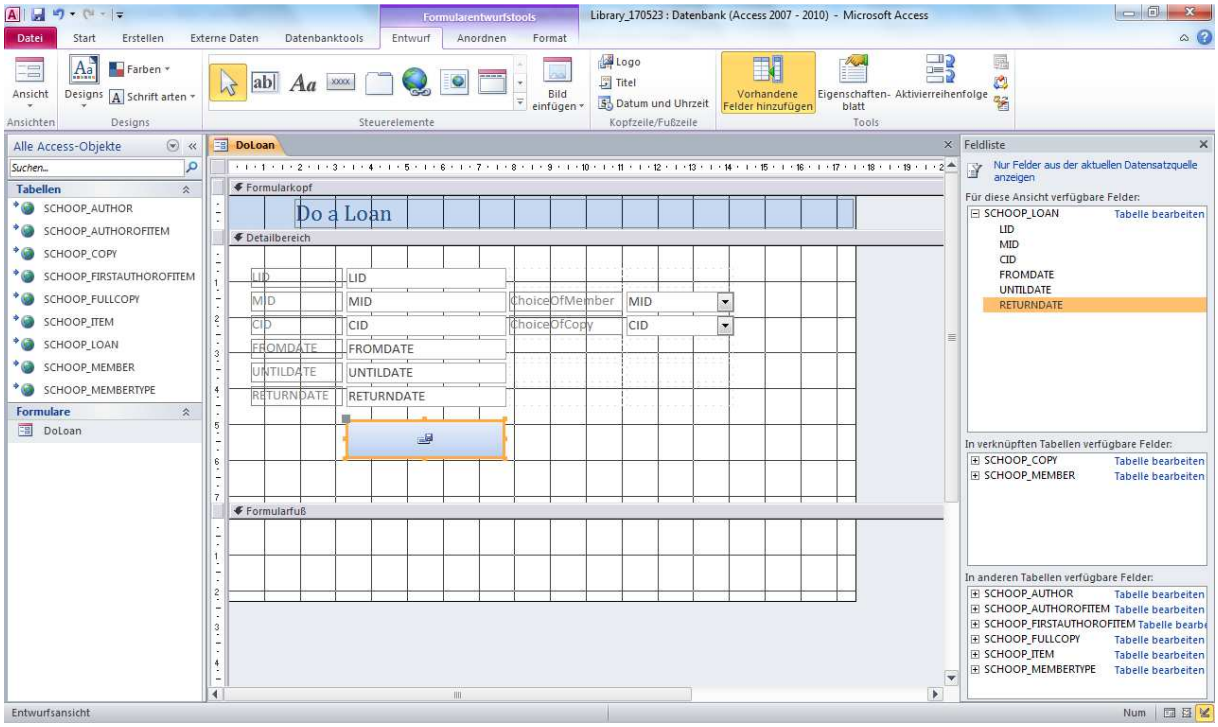
Choose the function of the button.



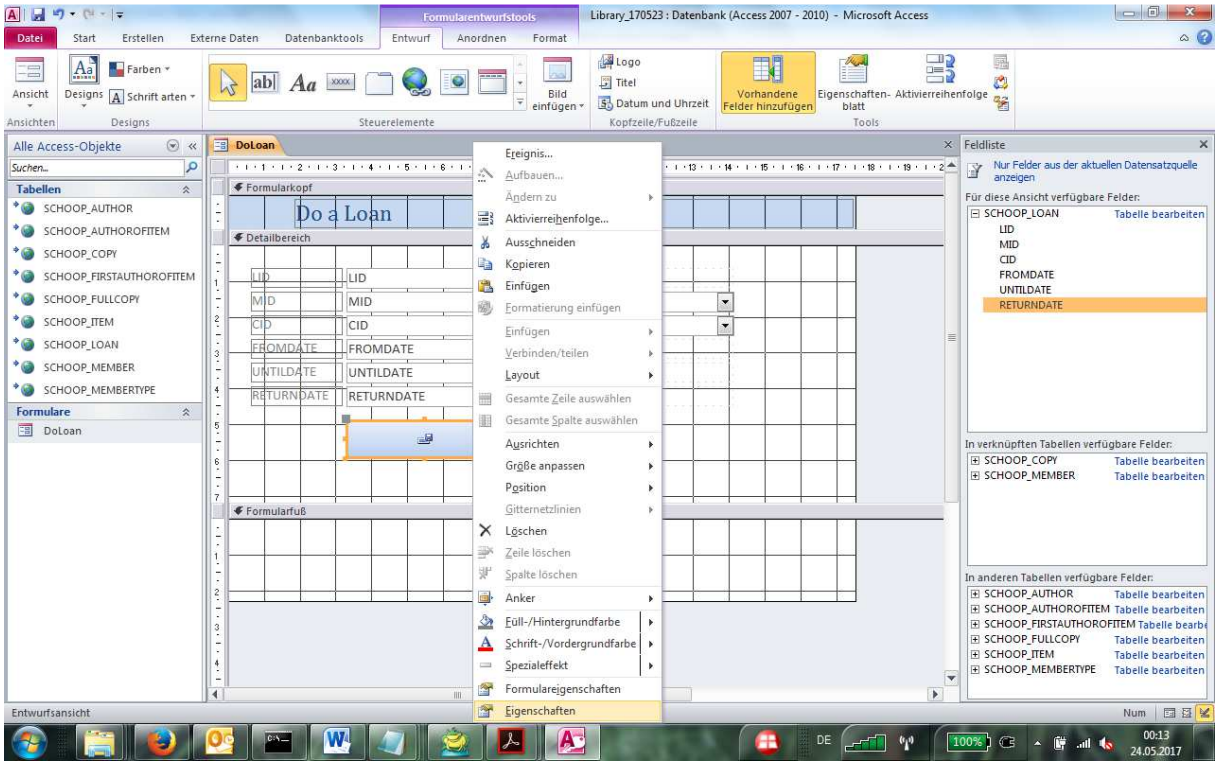


Give the button a sensible name.

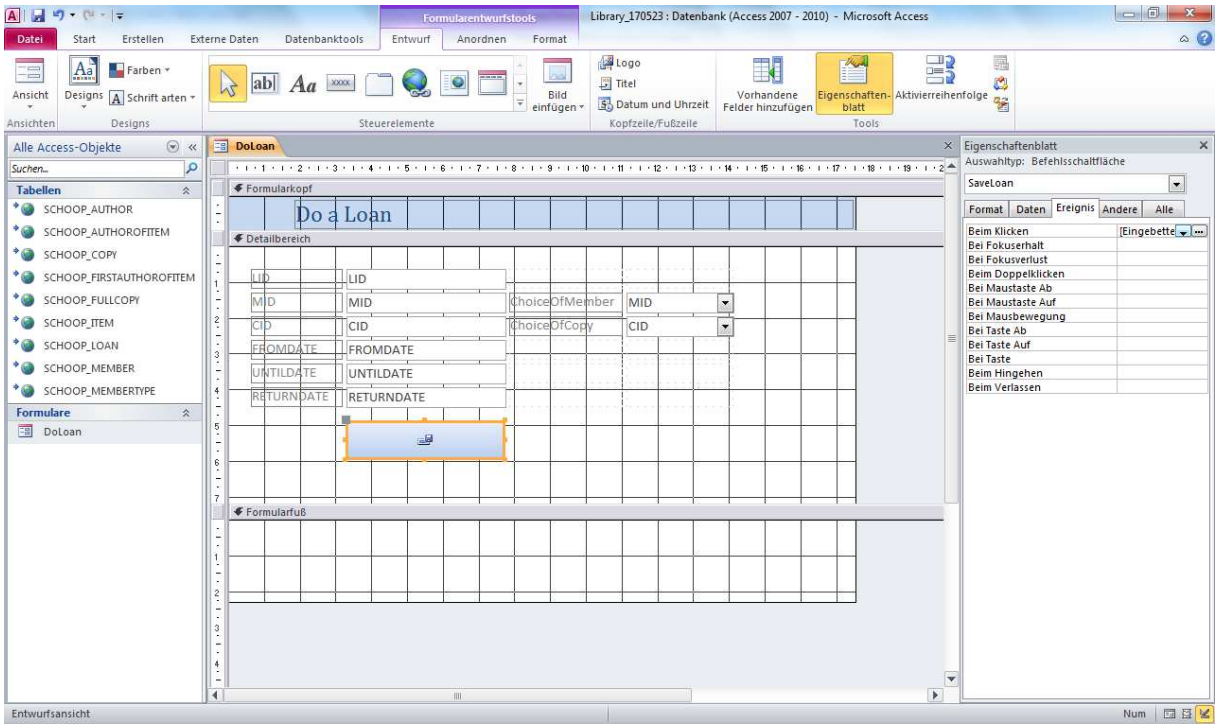




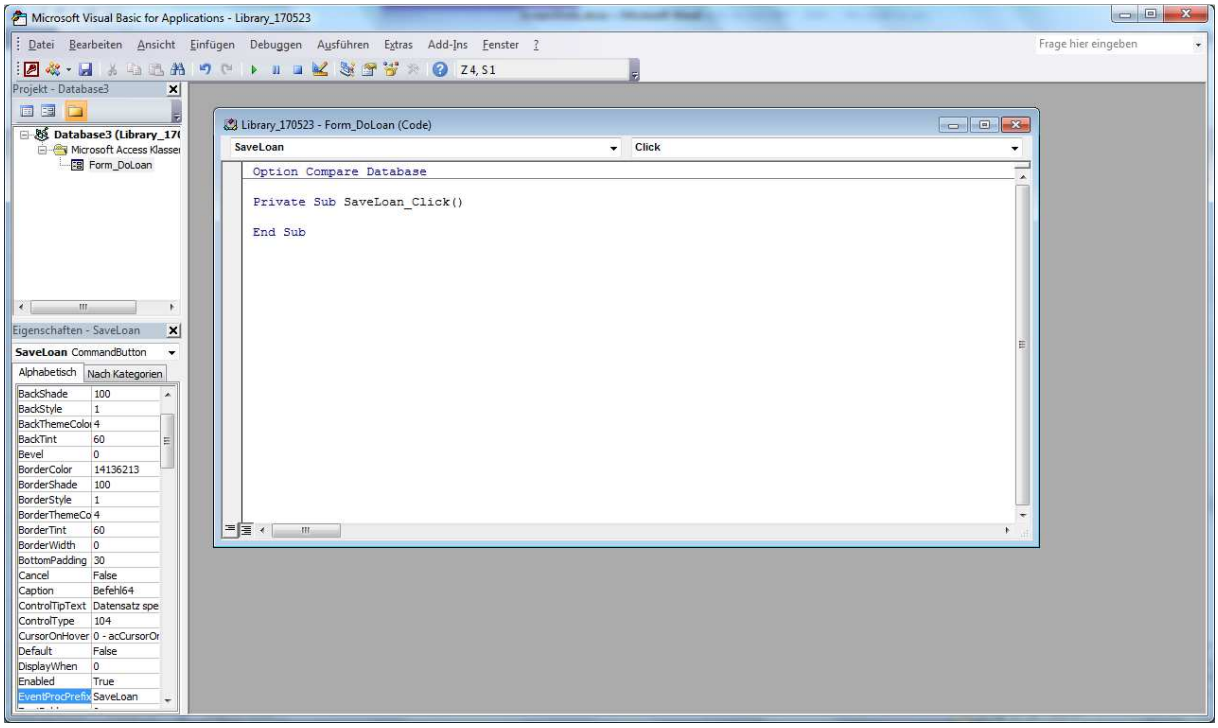
Open the properties (“Eigenschaften”) of the button.



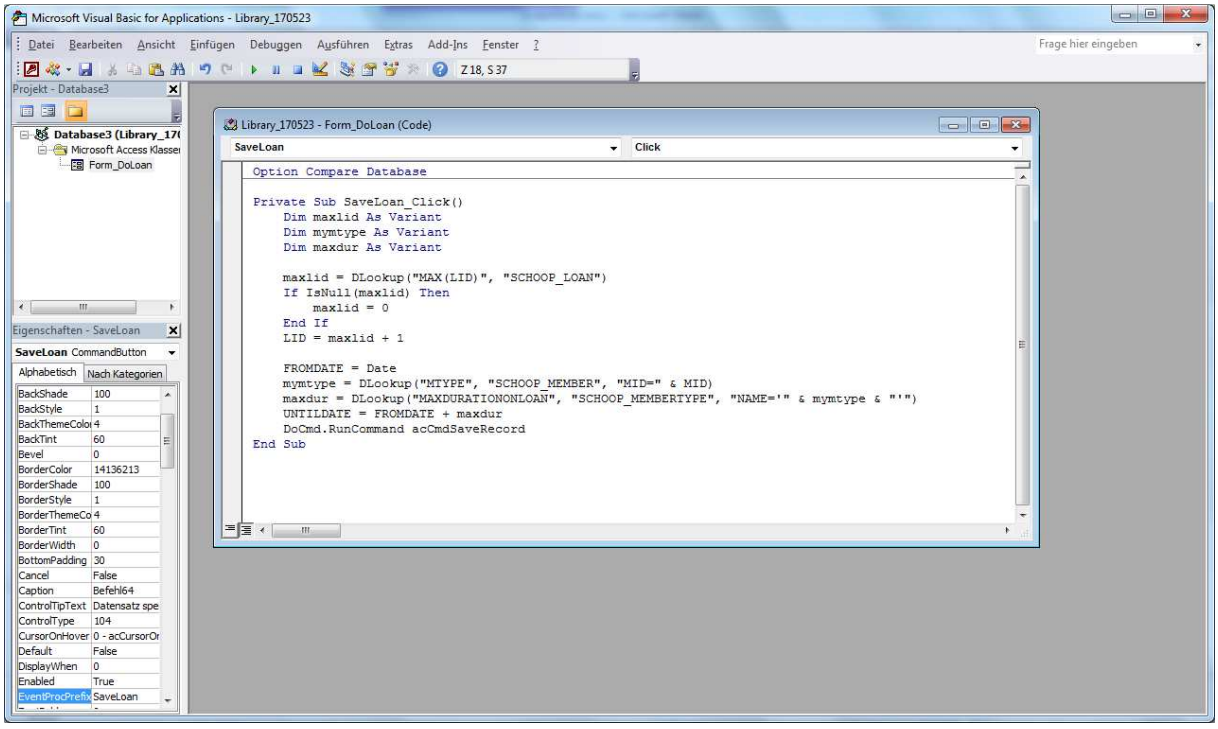
The properties are on the right. Go to the tab “Eregnis”.



Change property „Beim Klicken“ to „Ereignisprozedur“ and click on the three dots. A VBA editor opens.



Add your code.



Here is the code:

Private Sub Befehl72_Click()

Dim maxlid As Variant

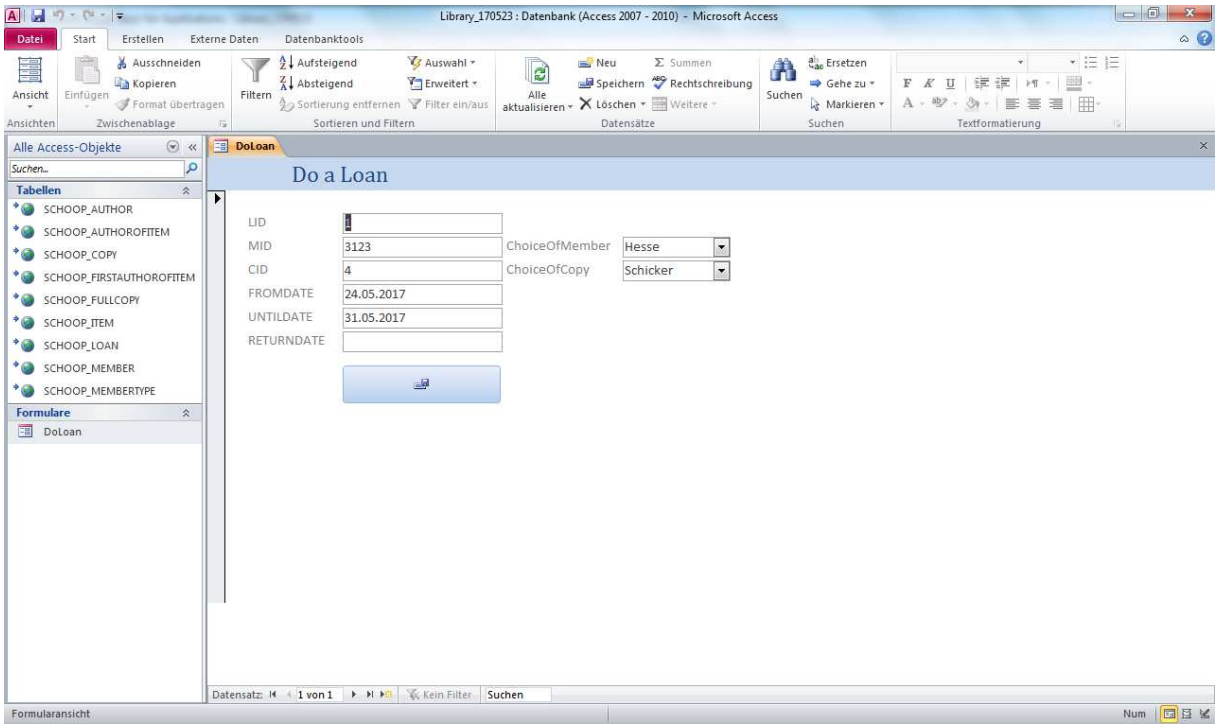
Dim mymtype As Variant

Dim maxdur As Variant

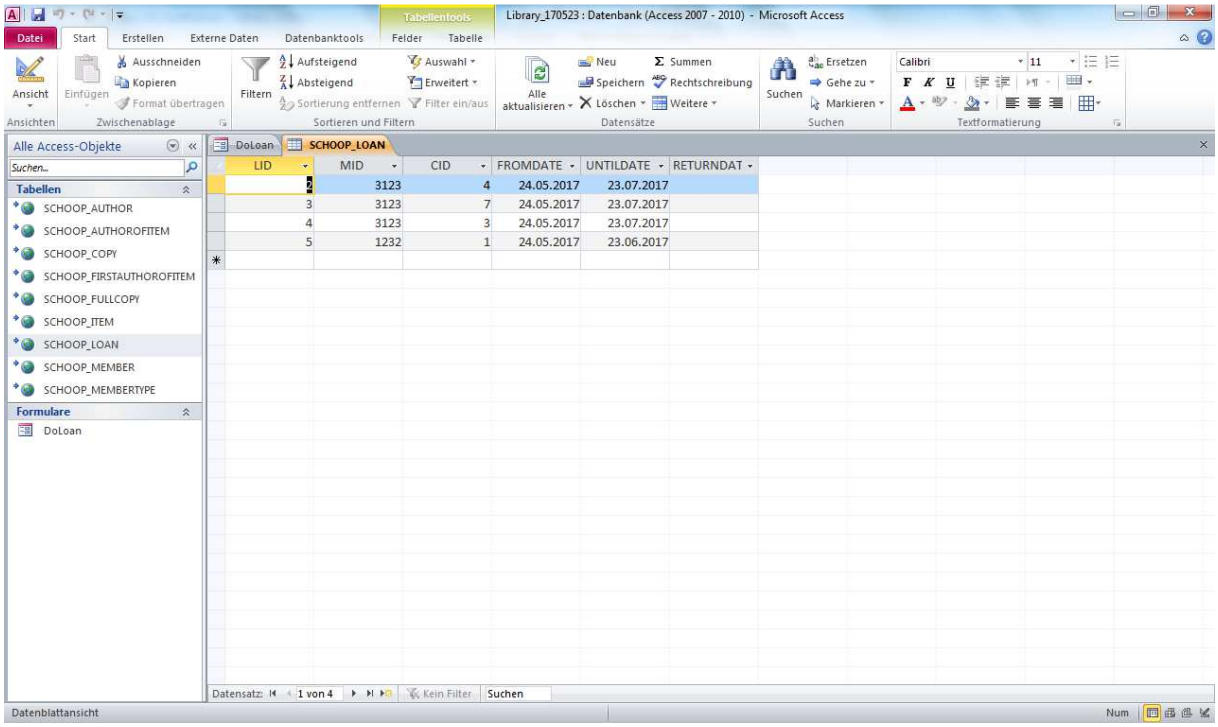
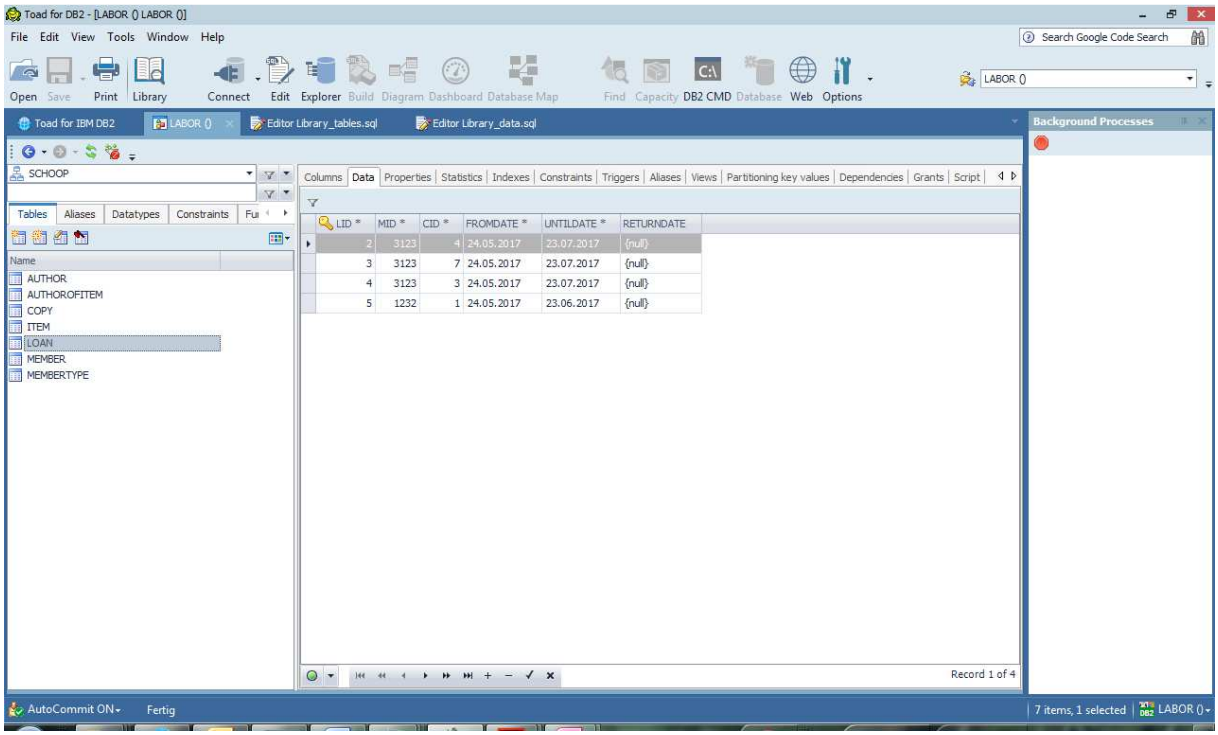
```
    maxlid = DLookup("MAX(LID)", "SCHOOP_LOAN")
    If IsNull(maxlid) Then
        maxlid = 0
    End If
    LID = maxlid + 1

    FROMDATE = Date
    mymtype = DLookup("MTYPE", "SCHOOP_MEMBER", "MID=" & MID)
    maxdur = DLookup("MAXDURATIONONLOAN", "SCHOOP_MEMBERTYPE", "NAME='" & mymtype & "'")
    UNTILDATE = FROMDATE + maxdur
    DoCmd.RunCommand acCmdSaveRecord
End Sub
```

Now the click on the button generates a unique LID, sets the FROMDATE to today, calculates the UNTILDATE based an the default value and stores the record.



You can check in the data view that the data has been stored.



The data is stored in the IBM DB2 database. Therefore, you can access it also with other tools (e.g. Toad).