Access Database Connection with Delphi

Pratiwi Lintang Sejati

165100079

Fakultas Komputer, 448757152

pratiwilintang.student@umitra.ac.id

Abstract

Access Database Connection with Delphi

To connect from Delphi to Access can be through two ways, which can be through BDE (Borland Database Engine) and can also be via ADO (ActiveX Data Object). If you are going to connect to Access using ADO, then the method is:

- Insert the ADOConnection component (in the ADO palette) on the form.
- We will connect to the ODBC Datasource named DATA KULIAH that was created previously, then change the properties of the ADO components as below

Properties	Value
CONNECTIONSTRING	Provider=MSDASQL.1;Persist Security Info=False;Data Source=DATAKULIAH
LOGINPROMPT	False
CONNECTED	True

- The CONNECTED property was successfully given a True value, meaning that the connection was successful. Congratulations on creating a desktop program using Delphi.

Library Application Program with Delphi + Ms. Access Form Print Member.

Because the previous Library project has been created, in module 2. Making a menu, on this occasion is to complete the member form, namely by:

- Activating Delphi 7.0 by clicking Start, Click All Programs, Click Borland Delphi7, Click Delphi 7.
- Click the File menu, click Open Project, specify the folder where you saved the Library project, then click the library and click open
- Click Menu file, click New, click form, change caption in properties with Print Data Member, and on name type in the print form of the member.

- View menu, then click forms and double click the form menu, click the file in the form menu, click member and type:
- member print form. show;
- Click the View menu, then click forms and double click the member print form, complete the form as shown below:

Pictures make member print form

Note :

The form besides consists of:

Ado connection, ADOQuery and dataset

Button1 to print and Button2 to Cancel

To make a report we use two components of the RAVE Pallete, namely :

RV Project and RV DataSetConnection Connect the database

- Click ADOQuery1 on the Form, click Connection String («), click Build, Click Microsoft Office12.0 Access Database Engine OLEDB Provider (for office 2007) but if you use Office XP you can choose Microsoft jet OLEDB 4.0, test connection
- And click next, in the data source type: D: \ library \ library.accdb, and the last click test connection. If the test connection shows a description of the connection succeeded test, the connection is correct, close all Windows connections by clicking OK. back to the Print member form.
- Still in ADOQuery1, click SQL on properties, then type: Select * Member form
- And the active click on properties change false to true.
- Activate the Data Source, that is by clicking Datasource on the member form, then clicking the dataset select ADOQuery1

The steps for making a report using RAVE :

- Click the Tools menu on Delphi, click RAVE designer
- Click the file, click New
- Click File, Click New Data Object

- Click Direct Dataview
- If you have previously made a report with raves, a message will appear
³Warning! Duplicate Design-time Data Connections found with name³RvData SetConnection1. Then click Ok and click the Next button
- Click finish
- Click RVDetetconnection1 (DT), then click Finish
- To ensure the data to be made the report can be seen at the right corner of the Rave worksheet, as shown in the following figure, by clicking Data view Dictionary, Click Dataview

- Click the tools menu on Rave, then click Report Wizard, click Simple Table
- Click Dataview1 and Click Next, Click All (to include all data in the table) or just click on the specific field that will be displayed, then click Next, Click Next, Click next and the last one click Generate
- To see the report results, click the File menu on RAVE, then click Execute report1 and click OK
- Close report
- Click the File menu in RAVE, then Click Save As, this command to save the Report, specify the same folder as the Delphi project saved, name the file with the name Member.rav, then Click Save
- Return to the Project Delphi Menu
- Click RVProject1, then in properties click ProjectFile, click the dots button, select the filereport that will be displayed (member form. Rav) and click OK
- Next is Double click on the Print button and type coding as follows:
 - ★ procedure TForm1.Button1Click(Sender: TObject)
 - ★ Begin
 - ★ adoquery1.Close;
 - ★ adoquery1.SQL.clear;
 - ★ adoquery1.SQL.Add(' select kode, , judulbuku from Anggota');
 - ★ adoquery1.Open;
 - ★ adoquery1.Active := true;

```
★ RVproject1.Execute;  
★ RVproject1.ExecuteReport('prjbuku.rav')  
★ end;
```

Library Application Program with Delphi + Ms. AccessForm Print Books Based on Publisher ID.

Because the previous Prjpustaka project has been made, in module 2. Making a menu, then this opportunity is to complement members, namely by:

- Activate Delphi 7.0 by clicking Start, Click All Programs, Click Borland Delphi 7, Click Delphi 7.
- Click the File menu, click Open Project, specify the folder where you saved the projectPRjpustaka, then click prerpustaka and click open
- Click the File menu, click New, click the form, change the caption in the properties with Member Data Print, and in the name type in the print form of the member.
- Click the View menu, then click forms and double click the form menu, click the file on the form menu, click the member and type: member print form. Show;
- Click the View menu, then click forms and double click the member print form, complete the form as shown below:

Image Create a Print Book Per Publisher form

Note:

The above form consists of:

Groupbox, Edit1 and label1

Ado connection, ADOQuery and dataset

Button1 to print and Button2 to Cancel

To make a report we use the two components of the RAVE palette namely RV Project and RV Data SetConnection

- Connecting the database Click ADOQuery1 on the Form, click Connection String (»), click Build, Click Microsoft Office 12.0 Access

Database Engine OLEDB Provider (for office 2007) but when using officeXP you can choose Microsoft jet OLEDB 4.0, test connection And click next, in the data source type : D: \ library \ library.accdb, and the last one click test connection. If the test connection shows the connection succeeded test statement, the connection is correct, close all windows connections by clicking OK. Return to the Print member form.

- Still on ADOQuery1, click SQL on properties, then type: select * From member and click Active on properties to change false to true.
- Mengaktifkan Data Source, yaitu dengan cara klik Datasource pada form anggota, lalu klik Dataset pilih ADOQuery1
- Connect RVDatasource SetConnection with the dataset, by clicking RVDatasource SetConnection, in properties click Dataset, then choose ADOQuery1 Steps to create a report using RAVE After completing the Report with Rave, proceed with
- Return to the Project Delphi menu on the Print form
- Click RVProject1, then on properties click ProjectFile, click the dots button, select the report file that will be displayed (member PRJ.rav) and click OK
- Next is Double click on the Print button and type coding as follows:

```
★ procedure TForm1.Button1Click(Sender: TObject);
★ begin
★   adoquery1.Close;
★   adoquery1.SQL.
★   adoquery1.SQL.add('select * from Penerbit,buku where
★     penerbit.id_penerbit =buku.id_penerbit and buku.id_penerbit = ''+
★     edit1.Text +''');
★   adoquery1.Open;
★   adoquery1.Eof then
★   begin
★     rvproject1.Execute;
★     rvproject1.ExecuteReport('prjbukupenerbit.rav')
★   end
★   else
★     showmessage('Data not found ');
★ end;
```

Keywords: Access Database Connection with Delphi

A. INTRODUCTION

Discussing about connecting from Delphi to Access can be done in two ways, which can be through BDE (Borland Database Engine) and can also be via ADO (ActiveX Data Object). If you are going to connect to Access using ADO,

- Insert the ADOConnection component (in the ADO palette) on the form.
- We will connect to the ODBC Datasource named DATAKULIAH, which has been made before, then change the properties of the ADO Connection component as below

Properties	Value
CONNECTIONSTRING	Provider=MSDASQL.1;Persist Security Info=False;Data Source=DATAKULIAH
LOGINPROMPT	False
CONNECTED	True

- the CONNECTED property was successfully given a True value, meaning that the connection was successful. Congratulations on creating a desktop program using Delphi.

Library application program with Delphi + Ms. Access Form Print Member.

Because the previous Library project was created, on module 2.

Making a menu, then this opportunity is to complement members, namely by:

- Activating Delphi 7.0 by clicking Start, Click All Programs, Click Borland Delphi7, Click Delphi 7.
- Click the File menu, click Open Project, specify the folder where you saved the Project Reader, then click the library and click open
- Click Menu file, click New, click form, change caption in properties with Print Data Member, and on name type in the print form of the member.
- the View menu, then click forms and double click the menu, click the file on the formmenu, click the member and type:
- member print form. show;
- Click the View menu, then click forms and double click frmcost member, complete the form as shown below:

Pictures make member print form

Note:

The form besides consists of:

Ado connection, ADoQuery and dataset

Button1 to print and Button2 to Cancel

To make a report we use two components of the RAVE palette, namely:

**RV Project and RV
DataSetConnection Connect the
database**

- Click ADOQuery1 on the Form, click Connection String («), click Build, Click Microsoft Office12.0 Access Database Engine OLEDB Provider (for office 2007) but if you use Office XP you can choose Microsoft jet OLEDB 4.0, test connection
- And click next, in the data source type: D: \ library \ library.accdb, and the last click test connection. If the test connection shows a description of the connection succeeded test, the connection is correct, close all Windows connections by clicking OK. back to the Print member form.
- Still in ADOQuery1, click SQL on properties, then type: Select * Member form
- And the active click on properties change false to true.
- Activate the Data Source, that is by clicking

Datasource on the member form, then clicking the dataset select ADOQuery1

- Connect RV Data Set Connection with the dataset, by clicking RV Data Set Connection, in properties click dataset, then select ADOQuery1
- The steps for making a report using RAVE
- Click the Tools menu on Delphi, click RAVE designer
- Click the file, click New
- Click File, Click New Data Object
- Click Direct Dataview
- If you have previously made a report with raves, a message will appear ³Warning! Duplicate Design-time Data Connections found with name³RvDataSetConnection1. Then click Ok and click the Next button
- Click finish
- Click RVDetectedconnection1 (DT), then click Finish
- To ensure that the data to be created the report can be seen in the right corner of the Rave worksheet, as shown in the following

figure, by clicking Data view
Dictionary, Click Dataview

- Click the tools menu on Rave, then click Report Wizard, click Simple Table
- Click Dataview1 and Click Next, Click All (to include all data in the table) or just click on the specific field that will be displayed, then click Next, Click Next, Click next and the last one click Generate
- To see the report results, click the File menu on RAVE, then click Execute report1 and click OK
- Close report
- Click the File menu in RAVE, then Click Save As, this command to save the Report, specify the same folder as the Delphi project saved, name the file with the name Member.rav, then Click Save
- Return to the Project Delphi Menu
- Click RVProject1, then in properties click ProjectFile, click the dots button, select the filereport that will be

displayed (member form.
Rav) and click OK

- Next is Double click on the Print button and type coding as follows:

★ procedure

```
TForm1.Button1Click(Sender: TObject);
★ Beginadoquery1.Close;
★ adoquery1.SQL.clear;
★ adoquery1.SQL.Add(
    select kode, , judulbuku
    from Anggota');
★ adoquery1.Open;
★ adoquery1.Active := true;
★ RVproject1.Execute;
★ RVproject1.ExecuteReport('prjbuku.rav');
★ end;
```

Library Application Program with Delphi + Ms. AccessForm Print Books Based on Publisher ID.

Because the previous Prjpustaka project has been made, in module 2. Making a menu, then this opportunity is to complement members, namely by:

- Activate Delphi 7.0 by clicking Start, Click All Programs, Click Borland Delphi 7, Click Delphi 7.
- Click the File menu, click Open Project, specify the folder where you saved the

projectPRjpustaka, then click prerpustaka and click open

- Click the File menu, click New, click the form, change the caption in the properties with Member Data Print, and in the name type in the print form of the member.
- Click the View menu, then click forms and double click the form menu, click file
- on the form menu, click the member and type: member print form. show;
- Click the View menu, then click forms and double click the member print form, complete the form as shown below:

Image Create a Print Book Per Publisher form

Note:

The above form consists of:
Groupbox, Edit1 and label1
Ado connection, ADOQuery and dataset
Button1 to print and Button2 to Cancel
To make a report we use the two RAVE Pallete components namely RVProject and RVDData SetConnection

- Connecting the database Click ADOQuery1 on the Form, click Connection String («), click Build, Click Microsoft Office 12.0 Access Database Engine OLEDB Provider (for office 2007) but when using officeXP you can choose Microsoft jet OLEDB 4.0, test connection And click next, in the data source type : D: \ library \ library.accdb, and the last one click test connection. If the test connection shows the connectionucceeded test statement, the connection is correct, close all windows connections by clicking OK. Return to the Print member form.
- Still on ADOQuery1, click SQL on properties, then type: select * From member and click Active on properties to change false to true.
- Activate the Data Source, that is by clicking Datasource on the member form, then clicking the dataset select ADOQuery1
- Connect RVDData SetConnection with the dataset, by clicking RVDData SetConnection, in properties click Dataset, then choose ADOQuery1 Steps to create a report using RAVE After completing the Report with Rave, proceed with
- Return to the Project Delphi

menu on the Print form

- Click RVProject1, then on properties click ProjectFile, click the dots button, select the report file that will be displayed (member PRJ.rav) and click OK
- Next is Double click on the Print button and type coding as follows:
 - ★ procedure
 - TForm1.Button1Click(Sender: TObject);
 - ★ Begin
 - ★ adoquery1.Close;
 - ★ adoquery1.SQL.
 - ★ adoquery1.SQL.add('select * from Penerbit,buku where penerbit.id_penerbit =buku.id_penerbit and buku.id_penerbit = ''' + edit1.Text +''');
 - ★ adoquery1.Open;
 - ★ adoquery1.Eof then
 - ★ begin
 - ★ rvproject1.Execute;
 - ★ rvproject1.ExecuteReport ('prjbukupenerbit.rav');
 - ★ end
 - ★ else
 - ★ showmessage('Data tidak ditemukan');
 - ★ end;

B. CONCLUSION

The conclusion of this material is that connecting from Delphi to Access can be done in two ways, namely through BDE (Borland

Database Engine) and also through ADO (ActiveX Data Object). If you are going to connect to Access using ADO.

Library application with Delphi + Ms. Access Form Print Member.

C. ACKNOWLEDGEMENT

University Of Indonesia
University Of Mitra
Indonesia
Telkom University
University Of Melbourne
Saitama University

- [1] A. S. Putra And O. M. Febriani, "Knowledge Management Online Application In Pdam Lampung Province," In *Prosiding International Conference On Information Technology And Business (Icibt)*, 2018, Pp. 181–187.
- [2] A. S. Putra, O. M. Febriani, And B. Bachry, "Implementasi Genetic Fuzzy System Untuk Mengidentifikasi Hasil Curian Kendaraan Bermotor Di Polda Lampung," *J. Sist. Inf. Dan Manaj. Basis Data*, Vol. 1, No. 1, Pp. 21–30, 2018.
- [3] O. M. Febriani And A. S. Putra, "Sistem Informasi Monitoring Inventori Barang Pada Balai Riset Standardisasi Industri Bandar Lampung," *J. Inform.*, Vol. 13, No. 1, Pp. 90–98, 2014.
- [4] Putra, Arie Setya. "2018 Artikel Struktur Data, Audit Dan Jaringan Komputer." (2018).
- [5] Putra, A. S. (2018, July 17). Paperplain Fundamental Create Application With Borland Delphi 7.0 University Of Mitra Indonesia. Retrieved From [Osf.io/Pbrn9](https://osf.io/Pbrn9).

D. REFERENCE (Based ISO 690)

E. REFERENCE (Based APA)

- Putra, A. S., Aryanti, D. R., & Hartati, I. (2018, November). Metode SAW (Simple Additive Weighting) sebagai Sistem Pendukung Keputusan Guru Berprestasi (Studi Kasus: SMK Global Surya). In *Prosiding Seminar Nasional Darmajaya* (Vol. 1, No. 1, pp. 85-97).
- Sari, D. P., Febriani, O. M., & Putra, A. S. (2018, November). Perancangan Sistem Informasi SDM Berprestasi pada SD Global Surya. In *Prosiding Seminar Nasional Darmajaya* (Vol. 1, No. 1, pp. 289-294).
- Putra, A. S. (2018). Paperplain: Execution Fundamental Create Application With Borland Delphi 7.0 University Of Mitra Indonesia.
- Putra, A. S., Sukri, H., & Zuhri, K. Sistem Monitoring Realtime Jaringan Irigasi Desa (JIDES) Dengan Konsep Jaringan Sensor Nirkabel. *IJEIS (Indonesian Journal of Electronics and Instrumentation Systems)*, 8(2), 221-232.
- Darmawan, A., Yuliawati, D., Marcella, O., & Firmandala, R. (2016). Sistem Absensi dan Pelaporan Berbasis Fingerprint dan SMS Gateway. *EXPLORE*, 7(1).
- Febriani, O. M., Wahyuni, T., & Yusuf, S. (2017). DESIGN OF WEBSITE-BASED INFORMATION SYSTEM FOR EDOCUMENT ADMINISTRASI IN THE COMMUNITY SERVICE UNIT (A Case Study at Rajabasa District). *INTERNATIONAL JOURNAL OF COMPUTERS & TECHNOLOGY*, 16(7), 7010-7020.
- Febriani, O. M., & Wahyuni, T. (2017, October). PERANCANGAN SISTEM E-DOCUMENT ADMINISTRASI LOGBOOK PENELITIAN PADA UNIT LAYANAN DI BANDAR LAMPUNG. In *Prosiding Seminar Nasional Darmajaya* (Vol. 1, No. 1, pp. 187-194).
- Febriani, O. M., & Permadi, A. B. (2017). Implementasi Sistem Aplikasi Data Bimbingan dan Pelanggaran Siswa pada Sekolah Menengah Atas di Lampung Tengah dengan Metode Analisis dan Desain Sistem Terdistribusi (SSAD). *EXPERT*, 7(1).
- Febriani, O. M., & Ambarwati, L. (2015). PERANCANGAN APLIKASI PENGOLAHAN DATA PENJUALAN UKM KELANTING KHAS TELO DESA SIDOHARJO KECAMATAN JATI AGUNG KABUPATEN LAMPUNG SELATAN. *Jurnal Teknologi Informasi dan Bisnis Pengabdian Masyarakat Darmajaya*, 1(1), 77-95.
- Febriani, O. M. (2015). Rancang Bangun Aplikasi E-commerce menggunakan Freewebstore pada UKM Kelanting di Desa Sidoharjo Lampung Selatan. *Prosiding Sembistek 2014*, 1(02), 446-458.