Accessing Delphi Database with ADO

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Abstract

The Delphi programming language can be used for various purposes both for mathematical calculations, office applications, multimedia applications, manufacturing processing applications, industrial control applications to database applications. In this material we will explain how to access the MS Access database in Delphi using the ADO Component. Maybe you have or have often developed database programs with Delphi or Visual Basic. You can use database paradox, dbase or MS access, and maybe you experience problems in the distribution of files that you build have a very large size because you have to include the database file and its accessories. This is certainly not beneficial especially if you have to distribute it via email. Here will be discussed about database applications with the Delphi programming language. To access the database in MS Access, starting Delphi 5 has provided an ADO component that will make it easier to manage the database that we will build. With ADO the Delphi distribution program only requires the exe file and its database (*.mdb) only. Of course this is for a simple program. So you can distribute it easily.

Keywords: Database program with Delphi

A. INTRODUCTION

How to access Delphi database with ADO?

Answer

Starting a database program With Delphi Delphi has provided a database component that will facilitate us in designing and building database applications. Database components are grouped in Pallete Data Access Data Control and BDE Components and ADO as shown below.

Data Access and BDE play many roles in determining data sources such as

tables, SQL, queries

- and its connectivity. Examples of these components are Table and Datasource. Data Control emphasizes more on the arrangement of data installed in applications such as

- DBLabel, DBNavigator, DBGrid, DBImage, DBMemo, DBEdit, DBCombobox and so on. ADO is used for communication programs with MS Access database so that data is
- created with MS Access will be integrated with Delphi

1. Creating a Database Program With Delphi To create a database program with Delphi, you must first create a database in MS Access first.

Example database in MS. Access with the marketing name which contains 4 tables with the name of the lecturer, Students, Values and T_Kuliah. Make a Form in Delphi and give the components as shown in the following picture.

List of Components Used

- ADO Connection is in the ADO Palette.
 - ADO Table There is at the ADO Palette
 - DataSource is in the Data Access Palette
 - DBNavigator is in the Data Control Palette
 - DBGrid is in the Data Control Palette
- After you create the form as above, set the properties of each component through the Object Inspector in Delphi as follows:

Example of the ADOConnection Component Setting Properties

- Select the Button ... on the Connection String in the image above so that the display appears as follows:
 - Select Use Connection String Then Select the Build Button
- 3 Examples of ADO component properties settings
- Connection1. What you need to set is Name and ConnectionString

- Select Microsoft Jet 4.0 OLE DB Provider then select Next so that the image appears on
- Select the Database Name by

pressing the ... button on the right corner then select the database.
• Press the Test Connection Button to make sure the database is correct

After you set the properties of all the above components correctly then the display is in mode the Delphi form will change as follows:

You can create an example database application with Delphi. Now you live run (run) the program so that the exe file is generated so that it can be used without the Delphi program again. Press F-9 on the Keyboard or Select Menu Run> Run then a program will be generated executables as follows:

You can develop the database program above by adding a data add menu, edit data, delete data. You can also add data or other tables in the database marketing.mdb.

Examples of programs that the author has equipped with various accessories and display the results as the following:

You can also add a Report with the Quick Report provided by Delphi 6 down or Rave (Delphi 7) which will be discussed in the next module. Example report which has been made as follows:

B. CONCLUSION

The conclusion of this material is...

With this, the Delphi programming language can be used for various purposes both for mathematical calculations, office applications, multimedia applications, manufacturing processing applications, industrial control applications to database applications. Maybe you have or have often developed database programs with Delphi or Visual Basic. You can use database paradox, dbase or MS access, and maybe you have a problem in the distribution of files that you build have a size very large because you have to include the database file and its accessories. This is certainly not especially if you have to distribute it via email. To access the database in MS Access, starting Delphi 5 has provided an ADO component that will make it easier to manage the database that we will build. With ADO the Delphi distribution program only requires the exe file and its database (*.mdb) only. Of course this is for the program simple. So you can distribute it easily.

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