MS Access Lab 4

Topic: Introduction to Forms and Reports

Summary

1. Forms:

- Introduction
- Kinds and Purposes
- Information in a Form
- Link between a form and its record
- Creating a form
- Example

2. Reports:

- Introduction
- Information in a report
- Link between a report and its record
- Creating a report
- Example

Northwind.mdb

In this session we will again use northwind.mdb. Open Northwind.mdb file in "C:/Program Files/Microsoft Office/Office/Samples" folder

Form: Introduction

To easily view, enter, and change data directly in a table, create a form. When you open a form, Microsoft Access retrieves the data from one or more tables and displays it on screen using the layout you chose in the Form Wizard or using a layout that you created from scratch.

| Urder ID | Customer ID | Required Date | uired Date Employee | | ou may have to scroll to see | | |
|----------------|----------------|-------------------------------|---------------------------|--|---|--|--|
| 11022 | 022 HANAR | | 09-May-96 Dodsworth, Anne | | whole record, and you can't update data | | |
| 11023 | BSBEV | 25-May-96 | Davolio, Nancy | from more than one table at the same tim | | | |
| 11024 | EASTC | 10-May-96 | Peacock, Margaret | | | | |
| | // | | Automate task | s INV | OICE | | |
| S | E 8 | Orders : Form | | | | | |
| | > Bi | II To: B's Bever Fauntiero | rages ly Circus | 7 1 | Print Invoice | | |
| Forms focu: | son | London | EC2 5N | т | | | |
| one record : | ata | 34. U | UK | | | | |
| time, and the | ey can 🛛 🖕 | algenoreon: Day | volio, Nancy | | | | |
| display field | s from | alesperson. | volio, ivancy | | | | |
| multiple table | es, O | rder ID: 11023 | Required Da | ite: 25-May | /-96 | | |
| pictures, an | a more. | Product: | Unit Price: | Quantity: | Extended Price: | | |
| | | Ipoh Coffee | \$46.00 | 30 | \$1380.00 | | |
| | | | | | | | |

- Form: Kinds and Purposes
 1. Data entry form: To enter data into a table
 2. Custom dialog box: To accept user input and then carry out an action based on that input
 3. Switchboard: To open other forms or reports

| orm to enter data | roducts | | | |
|--|--------------------|---------------------------------------|------------------------------------|--|
| into a table. | Product: Chai | Create a | Create a custom dialog | |
| | Supplier: Exotic L | iquids box to acc | ept user input, | |
| te a switchboard | Category: Beverag | action based | n carry out an I on that input. | |
| orm to open other forms or reports. | Product: Chang | Sales Reports | | |
| in Switchboard | View Produ | Report to Print Sales by Category | Preview | |
| | Categori | C Employee Sales by Country | Print | |
| | Product | Sales Summaries | Cancel | |
| | | | | |

Form: Information in a Form

| F | form view | such as lines and |
|---|--|---|
| | Employee Prices | stored in the form's design. |
| scriptive text is stored in he form's design, | Product ID: Product Name: Unit Price: | Data comes from the fields in the underlying record |
| | Employee Price: \$13.50 Please pay the accounting clerk for your purchases. | A calculation comes from an expression, which is stored in the form's design |

Form: Link between a form and its record



Creating a form

You can create a form on your own or you can have Microsoft Access create your form for you using a Form Wizard. A Form Wizard speeds up the process of creating a form because it does all the basic work for you. When you use a Form Wizard, Microsoft Access prompts you for information and creates a form based on your answers. Even if you've created many forms, you may want to use a Form Wizard to quickly lay out all the controls on your form. Then you can switch to Design view to customize your form.

Creating a form with a wizard

Option 1:

- 1. Choose Objects → Forms → Create form by using wizard (Fig. 1)
- 2. Click on the name of the **Table** or **Query** that includes the data you want to base your form on (in the left column)
- 3. Then choose the Layout that you want your Forms to follow (experiment with **Columnar**, **Tabular**, **Datasheet** and **Justified** to find the layout that you like best)
- 4. Next, choose the Style that you would like for your Form.
- 5. Give a Title to your Form. You can now either go and open your form or either modify the design in **Design view**.
- 6. Click on **Finish**.

Option 2:

- 1. Choose Insert \rightarrow Form
- 2. A New Form dialog box will pop up(Fig 2.) and then choose Form Wizard
- 3. Click on the name of the **Table** or **Query** that includes the data you want to base your form on (click on the list at the bottom of the dialog box)
- 4. Follow steps 4-6 in Option 1

- <u>Note</u>: 1. If you clicked AutoForm: Columnar, AutoForm: Tabular, or AutoForm: Datasheet, Microsoft Access automatically creates your form.
 - 2. If the resulting form doesn't look the way you want, you can ALWAYS change it in **Design view**

| orm Wizard | | | | |
|---|-----------------|---------------------------------------|-------------------------------------|-------------|
| Tables/Queries | Which You ca | fields do you wan n choose from mo | t on your form? re than one tabl | e or query. |
| Available Fields: ProductID ProductName SupplierID CategoryID QuantityPerUnit UnitPrice UnitsInStock UnitsOnOrder | | Selected Fields: | | |
| | Cancel | < <u>B</u> ack | <u>N</u> ext > | Einish |

Fig. 1: Window in Form Wizard (Option 1)

| ? |
|---|
| Design View Form Wizard AutoForm: Columnar AutoForm: Tabular AutoForm: Datasheet Chart Wizard PivotTable Wizard |
| Categories |
| |

Fig. 2: New Form Dialog Box (Option 2)



Note If you click one of the AutoForm options, Microsoft Access uses the autoformat you last specified, either in the Form Wizard or using the AutoFormat command on the Format menu in Design view.

Creating a form without a wizard

- 1. Go to Insert → Form → Design View (Fig.2)
- Click the name of the table or query that includes the data you want to base your form on. If the form won't contain data (for example, if you want to create a form to use as a switchboard to open other forms or reports, or if you want to create a custom dialog box), don't select anything from this list.

Note If you want to create a form that uses data from more than one table, base your form on a query that includes the tables you want to include.

- 3. Click OK.
- 4. With this option you can TOTALLY customize and control everything you would like to have and see in your forms.

| | | | | E Celégones | | | | | | |
|--|---|---|-------------------|---|--|------------------------|--|---|--|--|
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Examples: Various kinds of Forms in Northwind.mdb

Report:Introduction



Report: Information in a report

| Most of the informatio source of the report's | n in a report comes data. Other informat | from an under ion in the repo | lying table, query, or rt is stored in the re | r SQL statement, which is the port's design. |
|--|---|----------------------------------|---|---|
| | Print Preview | | | |
| The report title and column headings are stored in the report's design. — | - Sales by D 8-Mar-96 | The date | e comes from an expre s stored in the report's | ession, design. |
| L | - Shipped Date: | Order ID: | Sale Amount: | |
| | 4-Mar-96 | 10951 10990 10991 | 459 4,289 2,296 | Data comes from fields in the underlying table, query, or SQL |
| | Total: | | 7,044 | statement. |
| | 5-Mar-96 Total: | 10924 10927 10966 | 1,836 800 1,098 3,734 | Totals come from expressions, which are stored in the report's design. |

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Report: Link between a report and its record source

Creating a report

You can create a report on your own or you can have Microsoft Access create a report for you using a Report Wizard. A Report Wizard speeds up the process of creating a report because it does all the basic work for you. When you use a Report Wizard, it prompts you for information and creates a report based on your answers. Even if you've created many reports, you may want to use a Report Wizard to quickly lay out your report. Then you can switch to Design view to customize it.

Creating a report using AutoReport

AutoReport creates a report that displays **ALL** fields and records in the underlying table or query.

- 1. Go to **Insert** \rightarrow **Report** \rightarrow **AutoReport** (you can choose columnar or tabular) (Fig. 3)
 - AutoReport: Columnar. Each field appears on a separate line with a label to its left.
 - AutoReport: Tabular. The fields in each record appear on one line, and the labels print once at the top of each page.
- 2. Click the **Table** or **Query** that contains the data you want to base your report on.
- 3. Click OK.
- **Note:** Microsoft Access applies the last autoformat you used to the report. If you haven't created a report with a wizard before or haven't used the AutoFormat command on the Format menu, it uses the Standard autoformat.

Create a report with a wizard

 Go to Insert → Report → Report Wizard (or just click on Objects → Form → Create Report by Using Wizard)



Fig. 3: New Report Dialog Box

2. Click the table or query that contains the data you want to base your report on.

Note Microsoft Access uses this table or query as the default record source for the report. However, you can change the record source in the wizard and select fields from other tables and queries.

- 3. Click OK.
- 4. Follow the instructions on the screen to format and output the report the way you want it

Note: If the resulting report doesn't look the way you want, you can change it in Design view.

| Ways to customize a report | | | | | |
|----------------------------|--|--|--|--|--|
| | Change the appearance of the report | | | | |
| A . B | | | | | |
| Report | H H B Z U E | | | | |
| T oolbox 🖾 🚦 | Sales : Report | | | | |
| | | | | | |
| | | | | | |
| Aa ab | Sales - Add a field or control | | | | |
| | | | | | |
| | | | | | |
| | Shipped Date: Order ID: Subtotal: | | | | |
| | | | | | |
| R2 (11) | ShippedDate Change sorting or grouping order | | | | |
| | ✓Detail | | | | |
| | OrderID Subtotal | | | | |
| | ShippedDate Footer Change label text or a control source | | | | |
| | Total: [Suptotal]) | | | | |
| | <pre></pre> | | | | |
| | | | | | |



Example: Sales by Category Report in Northwind.mdb

You have just created your first form and report. Play around with the layout and design option until you find one that you like. Use your creativity !!