Access Tutorial 1

Creating a Database

Microsoft® Office 2010



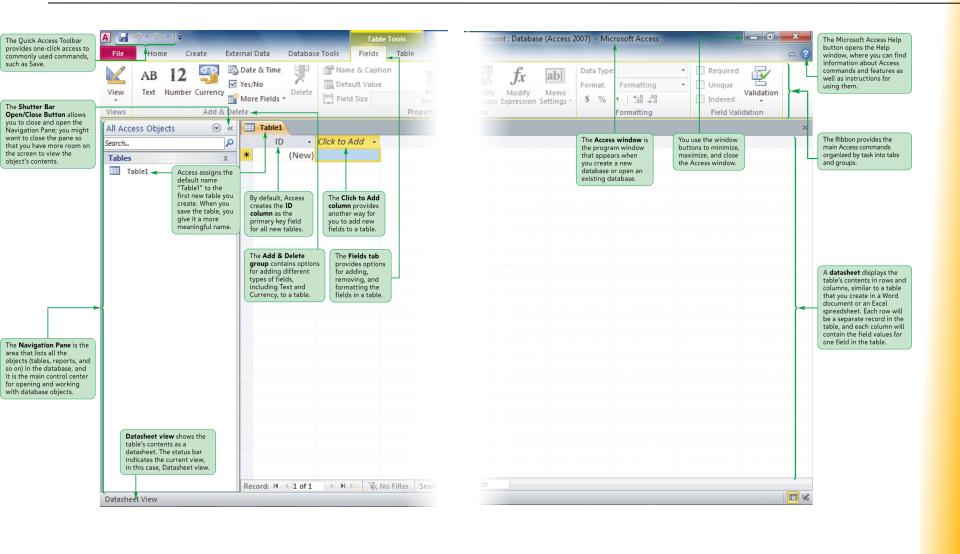
Objectives

- Learn basic database concepts and terms
- Explore the Microsoft Access window and Backstage view
- Create a blank database
- Create and save a table in Datasheet view
- Enter field names and records in a table datasheet
- Open a table using the Navigation Pane

Objectives

- Open an Access database
- Copy and paste records from another Access database
- Navigate a table datasheet
- Create and navigate a simple query
- Create and navigate a simple form
- Create, preview, navigate, and print a simple report
- Learn how to compact, back up, and restore a database

The Access Window



Organizing Data

- Your first step in organizing data is to identify the individual fields
 - The specific value, or content, of a field is called the field value
 - A set of field values is called a record
- Next, you group related fields together into

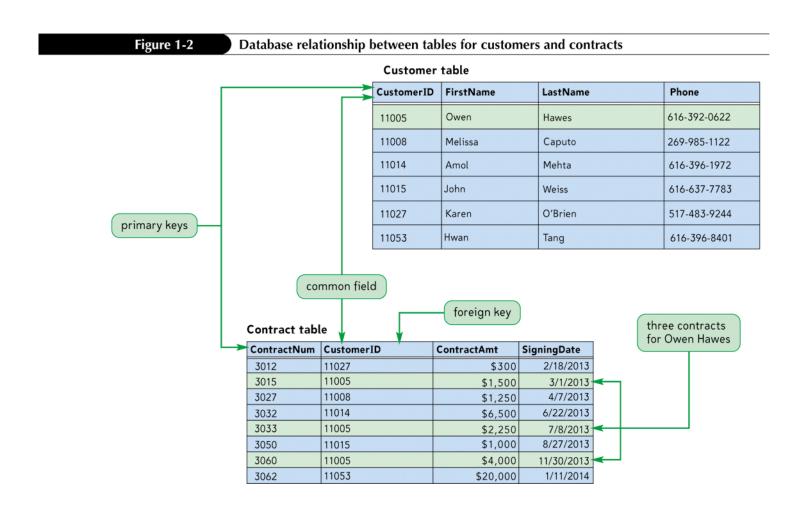
tables



Databases and Relationships

- A collection of related tables is called a database, or a relational database
- You connect the records in the separate tables through a common field
- A primary key is a field, or a collection of fields, whose values uniquely identify each record in a table
- When you include the primary key from one table as a field in a second table to form a relationship between the two tables, it is called a **foreign key** in the second table

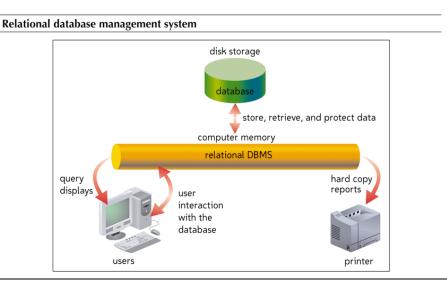
Databases and Relationships



Relational Database Management Systems

- A database management system (DBMS) is a software program that lets you create databases and then manipulate data in them
- In a relational database management system, data is organized as a collection of tables

Figure 1-3



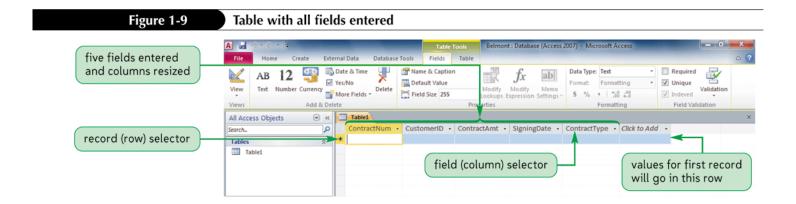
Creating a Table in Datasheet View

- Click the Create tab on the Ribbon
- In the Tables group, click the Table button.
- Accept the default ID primary key field with the AutoNumber data type, or rename the field and change its data type, if necessary.
- In the Add & Delete group on the Fields tab, click the button for the type of field you want to add to the table (for example, click the Text button), and then type the field name. Repeat this step to add all the necessary fields to the table

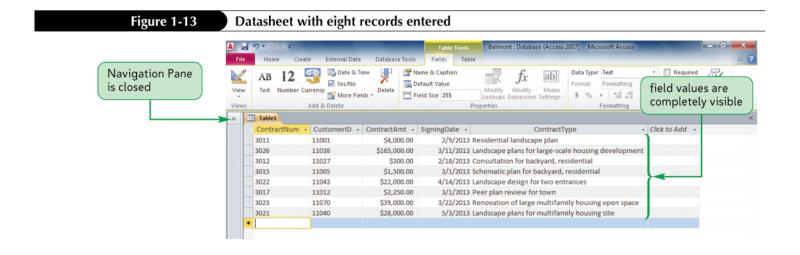
Creating a Table in Datasheet View

- In the first row below the field names, enter the value for each field in the first record, pressing the tab or Enter key to move to the next field
- After entering the value for the last field in the first record, press the Tab or Enter key to move to the next row, and then enter the values for the next record. Continue this process until you have entered all the records for the table
- Click the Save button on the Quick Access Toolbar, enter a name for the table, and then click the OK button

Creating a Table in Datasheet View



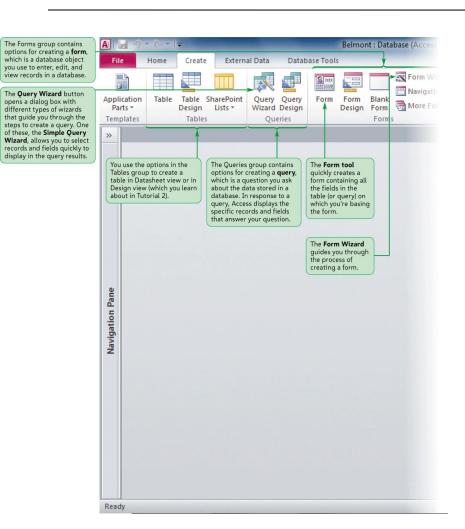
Entering Records

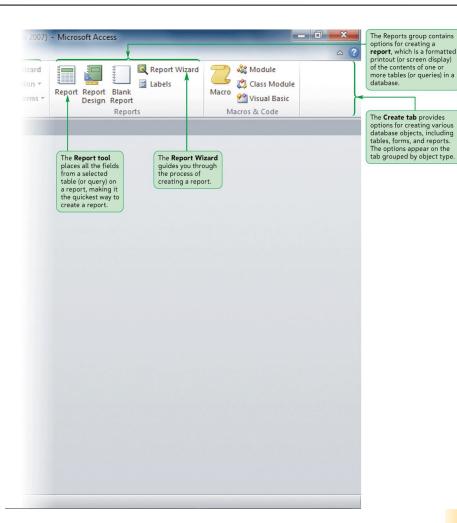


Saving a Table

- Click the Save button on the Quick Access Toolbar. The Save As dialog box opens
- In the Table Name text box, type the name for the table
- Click the OK button

The Create Tab Options

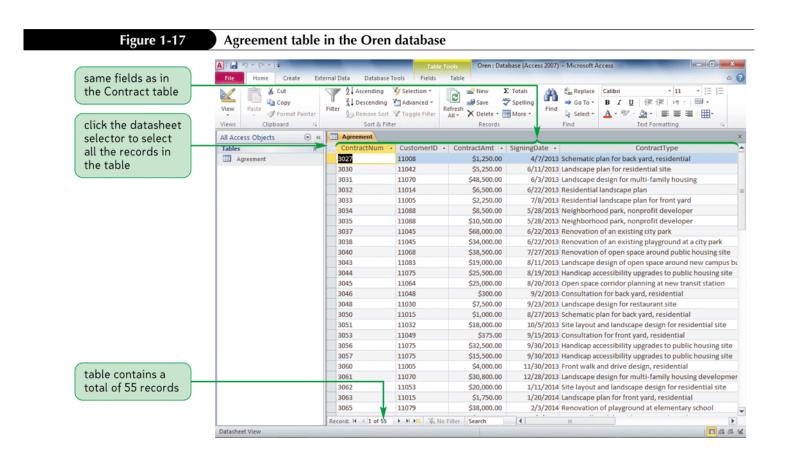




Opening a Database

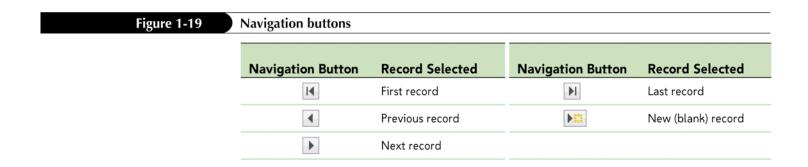
- Start Access. If necessary, click the File tab to display Backstage view
- Click the Open command in the navigation bar to display the Open dialog box
- Navigate to the database file you want to open, and then click the file
- Click the Open button

Opening a Database



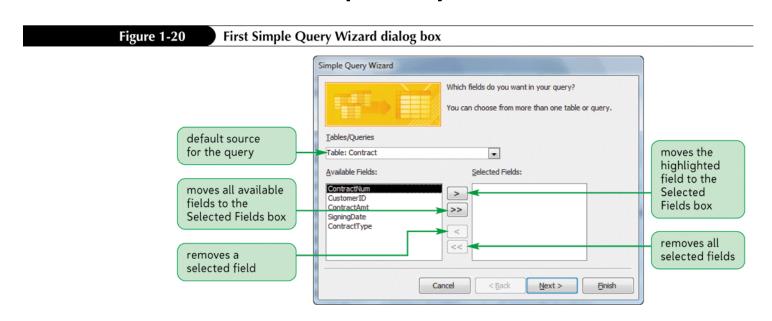
Navigating a Datasheet

 The navigation buttons provide another way to move vertically through the records



Creating a Simple Query

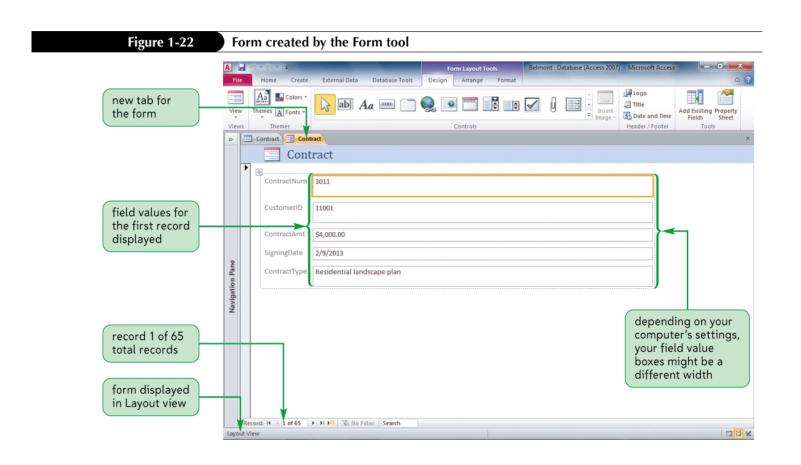
- A query is a question you ask about the data stored in a database
- The Simple Query Wizard allows you to select records and fields quickly



Creating a Simple Form

- A form is an object you use to enter, edit, and view records in a database
- You can design your own forms, use the Form Wizard, or use the Form tool to create a simple form quickly and easily

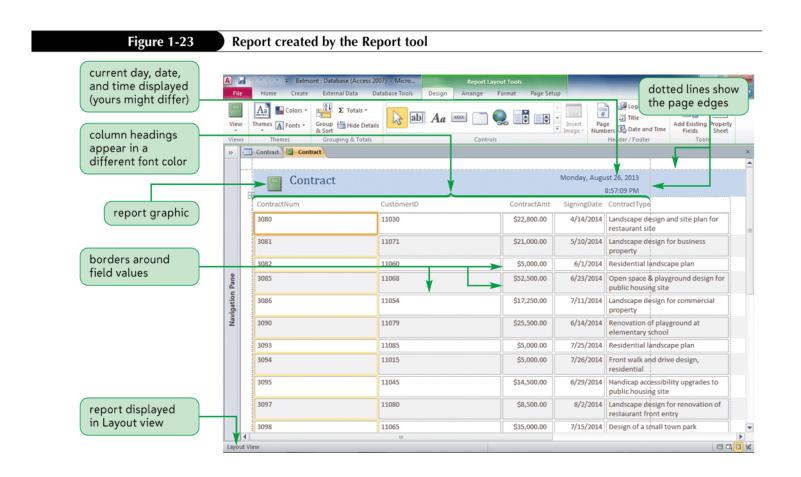
Creating a Simple Form



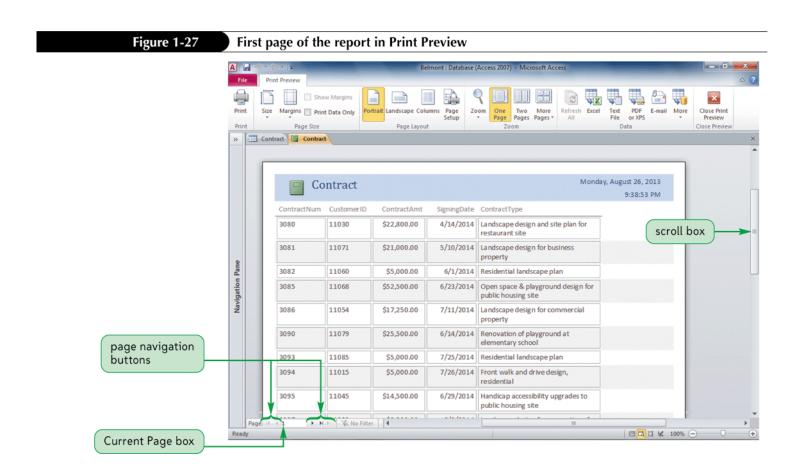
Creating a Simple Report

- A report is a formatted printout (or screen display) of the contents of one or more tables in a database
- The Report tool places all the fields from a selected table or query

Creating a Simple Report



Creating a Simple Report



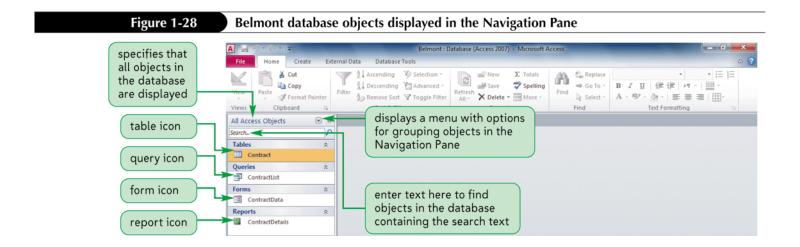
Printing a Report

- Open the report in any view, or select the report in the Navigation Pane
- To print the report with the default print settings, click the File tab to display Backstage view, click the Print tab, and then click Quick Print

or

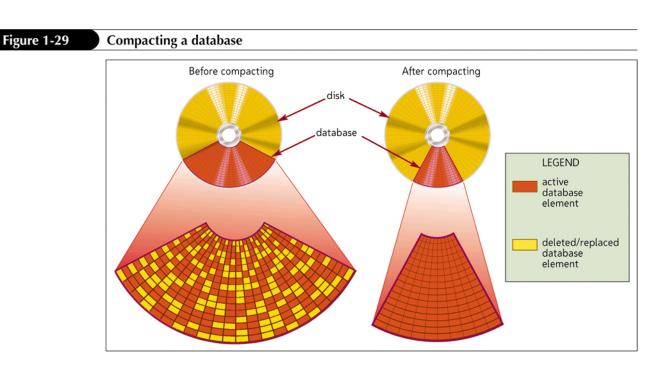
 To display the Print dialog box and select the options you want for printing the report, click the File tab, click the Print tab, and then click Print (or, if the report is displayed in Print Preview, click the Print button in the Print group on the Print Preview tab)

Viewing Objects in the Navigation Pane



Compacting and Repairing a Database

 Compacting a database rearranges the data and objects in a database to decrease its file size



Compacting and Repairing a Database

- Make sure the database file you want to compact and repair is open
- Click the File tab to display Backstage view
- Make sure the Info tab is selected in the navigation bar
- Click the Compact & Repair Database button

Backing Up and Restoring a Database

- Backing up a database is the process of making a copy of the database file to protect your database against loss or damage
- The Back Up Database command enables you to back up your database file from within the Access program, while you are working on your database