Access Tutorial

Creating a Database

Microsoft Office



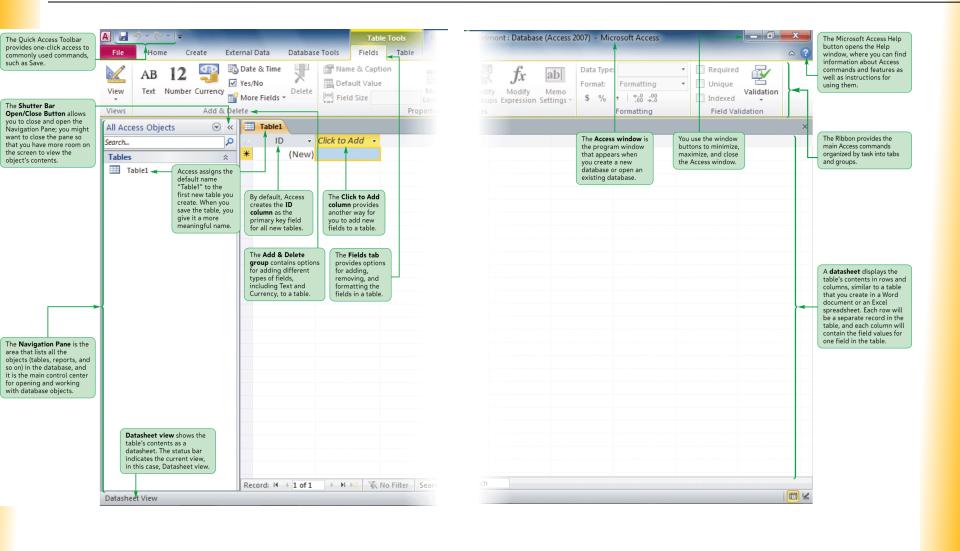
Objectives

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

Objectives

- Open an Access database
- Navigate a table datasheet
- Create and navigate a simple query
- Create and navigate a simple form

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

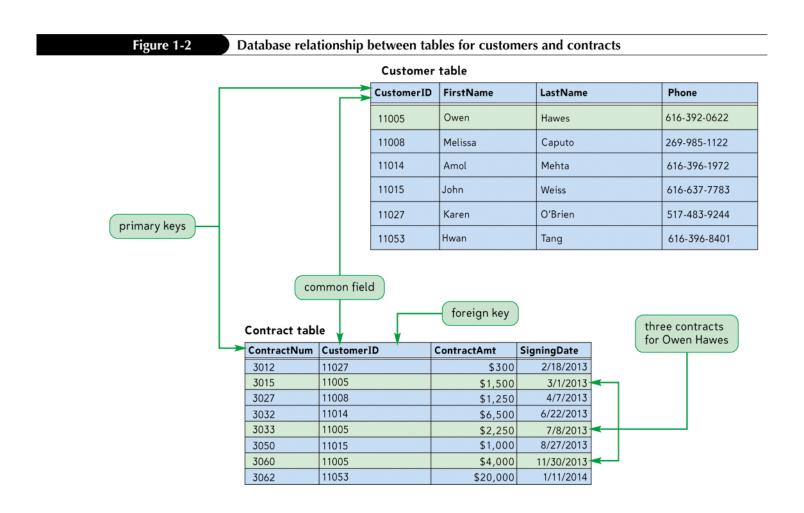
tables



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

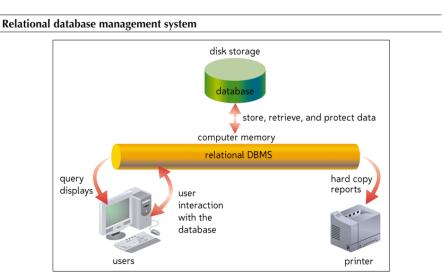
Databases and Relationships



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



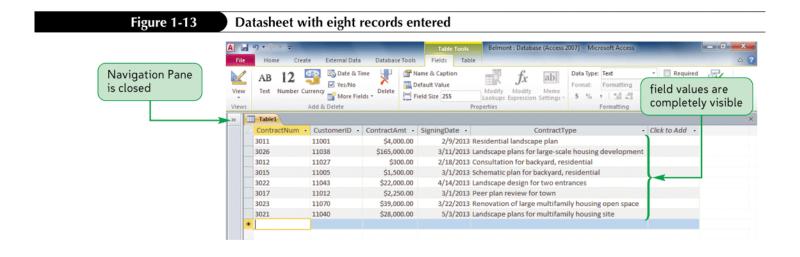
Creating a Table in Design View

- 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.
- Click the Design button (directly under the File Tab) to change to the design table view
- In the Fields Type cell, 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 Design 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

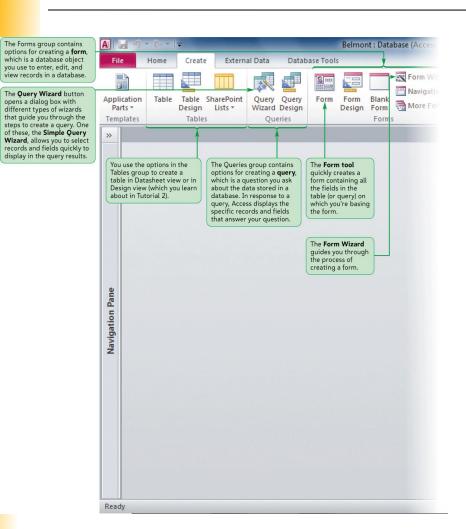
Entering Records

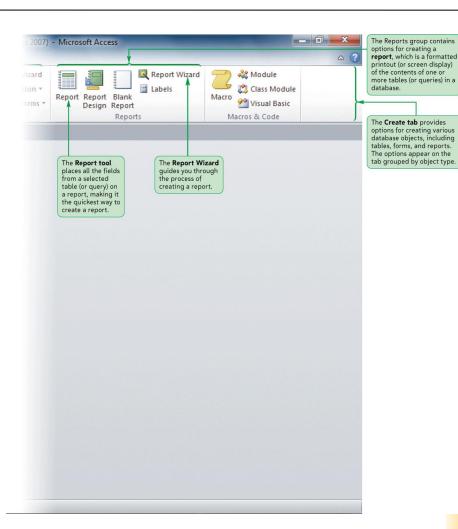


Entering Records & Saving a Table

- Click the Datasheet View button (under the file tab) to switch back to the Datasheet View.
- Add, edit, or delete records as desired (all changes within a table are automatically saved)
- 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

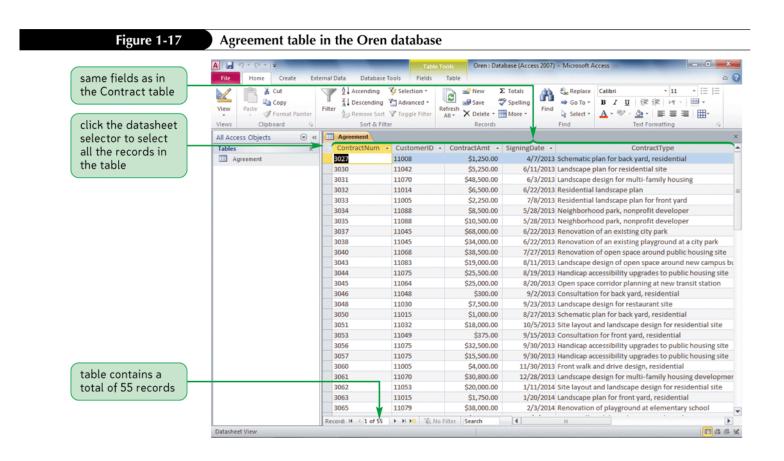




Opening a Database

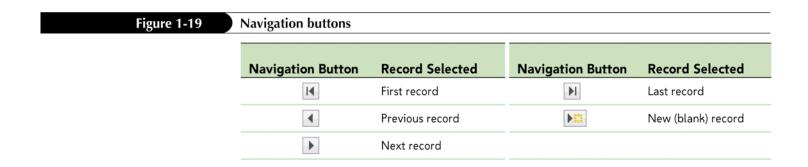
- Start Access. If necessary, click the File tab to display Backstage view
- Click the Open command in the navigation bar to display the Open dialog box
- Navigate to the database file you want to open, and then click the file
- Click the Open button

Opening a Database



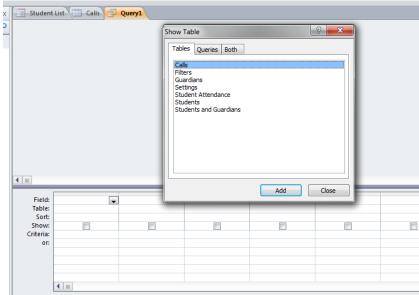
Navigating a Datasheet

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



Creating a Simple Query

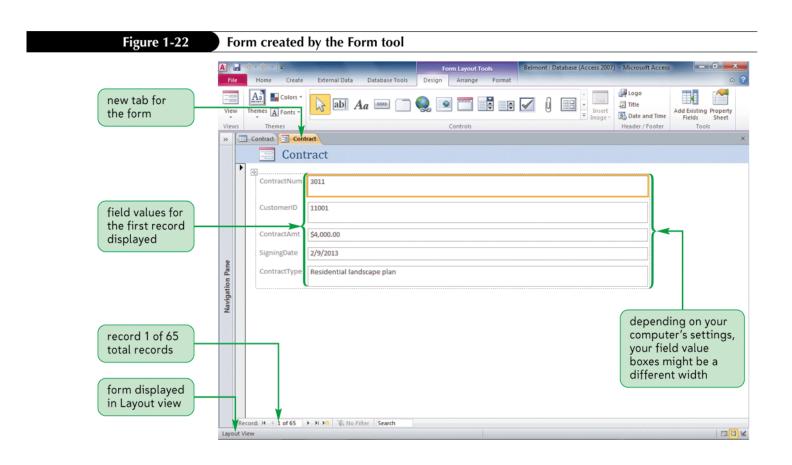
- A query is a question you ask about the data stored in a database
- The QBE (Query By Example) window allows you to select records and fields quickly (and put in criteria, etc).



Creating a Simple Form

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

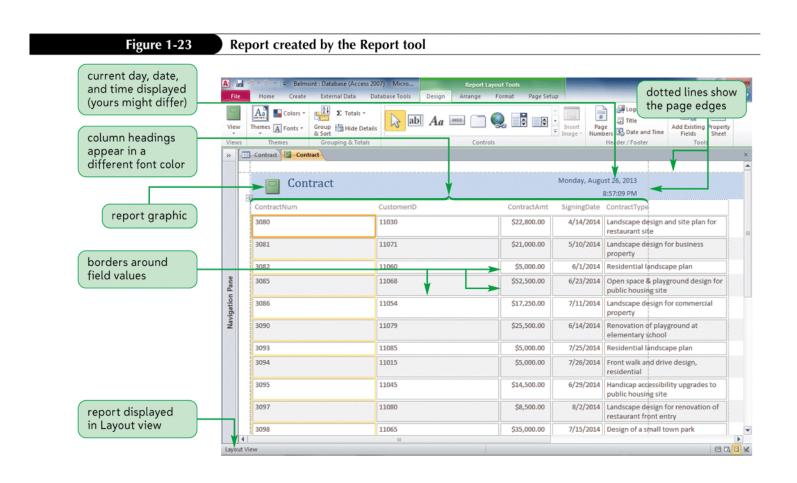
Creating a Simple Form



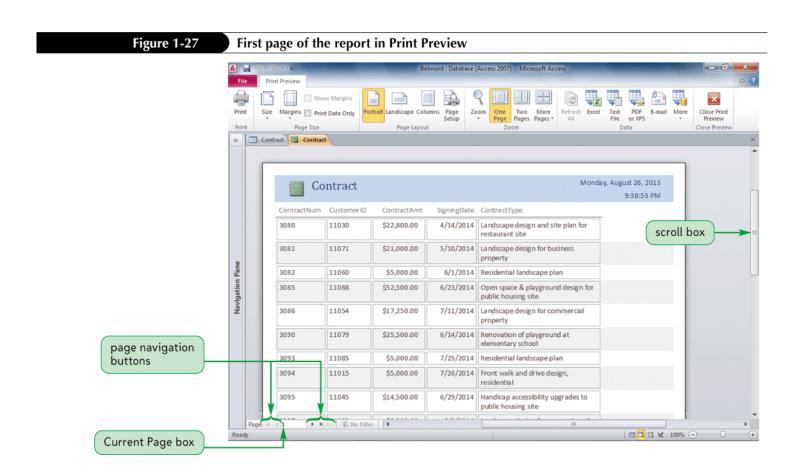
Creating a Simple Report

- 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



Viewing Objects in the Navigation Pane

