Working with Databases and Objects

Getting Started Window

- To Create a Database: Click a template category in the list and click the template you want to use. Click Create. Or, click the Blank Database button.
- To Open an Existing Database: Click a database in the Open Recent Database list or click More and browse for it.

Access 2007 Screen

- Office Button
- Ribbon
- Quick Access Toolbar
- Title bar
- Close button
- Object tabs
- Objects in the Navigation Pane
- Status bar
- Table open in Datasheet View
- Field Templates List

Database Objects

- Tables store related data in rows (records) and columns (fields).
- Queries view, filter, calculate, change, sort, and examine the data stored in tables.
- Forms are custom screens that provide an easy way to enter and view data in a table.
- Reports present data from a table or query in a printed format.
- Macros automate common tasks and can be run by clicking a button or pressing a shortcut key.
- Modules are groups of procedures written in Visual Basic and used to automate tasks.
- Page objects have been replaced by Windows Sharepoint Services. Pages in old databases can still be viewed—but not edited—in Internet Explorer.

- To Modify an Object: Open the object or click its tab in the window, click the Format tab on the Ribbon, click the View button in the Views group and select Design View or Layout View.
- To Delete an Object: Select the object and press <Delete>. Click Yes.
- To Rename an Object: Right-click the object, select Rename from the contextual menu, enter the new name, and press <Enter>.
- To Repair/Compress a Database: Click the Office Button and select Manage → Compact and Repair Database.
- To Import Data: Click the External Data tab on the Ribbon and click the type of file you want to import from in the Import group. Follow the onscreen instructions.
- To Export Data: Click the External Data tab on the Ribbon and click the type of file you want to export to in the Export group. Follow the onscreen instructions.

Keyboard Shortcuts

General

- Open a Database: <Ctrl> + <O>
- Close a Database: <Ctrl> + <W>
- Print Current View: <Ctrl> + <P>
- Delete: <Delete>
- Undo: <Ctrl> + <Z>
- Help: <F1>
- Delete Record: <Ctrl> + < - >
- Cancel Changes: <Esc>
- Insert Date: <Ctrl> + < + >
- Insert Time: <Shift> + <Ctrl> + < :>
- Insert Value from Same Field in Previous Record: <Ctrl> + < + '>

Navigation

- Next Field: <Tab>
- Previous Field: <Shift> + <Tab>
- Next Screen: <Page Down>
- Previous Screen: <Page Up>
- First Record: <Ctrl> + < ↑ >
- Last Record: <Ctrl> + < ↓ >
- Toggle Navigation Pane: <F11>

Editing

- Cut: <Ctrl> + <X>
- Copy: <Ctrl> + <C>
- Paste: <Ctrl> + <V>
- Find: <Ctrl> + <F>
- Replace: <Ctrl> + <H>
- Select All: <Ctrl> + <A>

Design View

- Properties: <Alt> + <Enter>
- Open object in Design View: <Ctrl> + <Enter>
- Save Object: <Ctrl> + <S>
Creating Table Relationships

Linking Tables tells Access how two tables are related to each other. The fields that you use to link two tables must contain the same concept in two different tables. A primary key field from one table is often used when linking two tables.

1. Click the **Datasheet** tab on the Ribbon and click the **Relationships** button in the Relationships group.
2. If necessary, click the **Show Table** button in the Relationships group on the Design tab. In the Show Table window, select a table you want to link, click the **Add** button, and repeat for each table. Click **Close**.
3. Drag a field from one table and drop it on the related field in the second table. (Optional) Check the **Enforce Referential Integrity** box. Click **Create**.

Working with Table Data

- Database information can be directly added and modified from tables and some queries and forms.
- **To Add a Field to a Table**: Enter data in the cell below the Add New Field column header. Or, click and drag a field from the Field Templates pane to the table (to display the Field Templates pane, click the **Datasheet** tab on the Ribbon and click the **New Field** button in the Fields & Columns group).
- **To Add a New Record**: Enter data in the bottom row of the table.

<table>
<thead>
<tr>
<th>Field Data Types</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Type</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>Text (Default)</td>
<td>Stores text, numbers, or a combination of both, up to 255 characters long.</td>
</tr>
<tr>
<td>Memo</td>
<td>Stores long text entries—up to 64,000 characters long.</td>
</tr>
<tr>
<td>Number</td>
<td>Stores numbers that can be used in calculations.</td>
</tr>
<tr>
<td>Date/Time</td>
<td>Stores dates, times, or both.</td>
</tr>
<tr>
<td>Currency</td>
<td>Stores numbers and symbols that represent money.</td>
</tr>
<tr>
<td>AutoNumber</td>
<td>Automatically fills in a unique number for each record.</td>
</tr>
<tr>
<td>Yes/No</td>
<td>Stores only one of two values, such as Yes or No.</td>
</tr>
<tr>
<td>OLE Object</td>
<td>Stores objects created in other programs, such as a graphic, Excel spreadsheet, or Word document.</td>
</tr>
<tr>
<td>Hyperlink</td>
<td>Stores clickable links to Web pages on the Internet or files on a network.</td>
</tr>
<tr>
<td>Lookup Wizard</td>
<td>A wizard that helps you create a field whose values are selected from another table, query, or list of values.</td>
</tr>
<tr>
<td>Attachment</td>
<td>Allows you to attach files and images to your database.</td>
</tr>
</tbody>
</table>

Working with Queries

The Design Query Window

To add a field to the query, click and drag it from the table down to the design grid. The queried tables appear here. You can also link tables.

- **To Create a Select Query**: Click the **Create** tab on the Ribbon and click the **Query Wizard** button in the Other group. Click **Simple Query Wizard** and click **OK**. Follow the onscreen instructions to select the fields you want to use from the desired tables and create the query. If you want to filter records, view the query in Design view and enter the criteria in the Criteria row.
- **To Switch Views**: Click the **Home** tab on the Ribbon and click the **View** button in the Views group.
- **To Summarize Values**: Open the Query in Datasheet View, click the **Home** tab on the Ribbon and click the **Totals** button in the Records group. Click the list arrow in a column in the Total row in the query select a calculation type (Sum, Average, etc.).

Criteria Example | Description
---|---
“London” | Displays records where the field equals “London.”
Between 1/1/00 and 12/31/00 | Displays records where the date is between 1/1/00 and 12/31/00.
NOT “USA” or <> “” | Displays records where the field does not contain the text “USA” and is not blank.
Like “S*” | Displays records where the field text starts with an “S.”
IS NULL | Displays records where the field is blank.
IS NOT NULL | Displays records where the field is not blank.
>100 | Displays records whose field value is greater than 100.

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