

# AutoSketch® 10 Advanced Exercises

Autodesk®

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# Tutorial 4 — Advanced Exercises

In this tutorial, you learn how to create 3D effects, use the Web tools called eTransmit, hyperlinks, and generate a database report.

More information about each of the concepts in this tutorial is available in the AutoSketch® Help system.

## In this tutorial

- Create 3D Effects
- Use Web Tools
- Generate a Database Report

# Create 3D Effects

In this exercise, you learn to

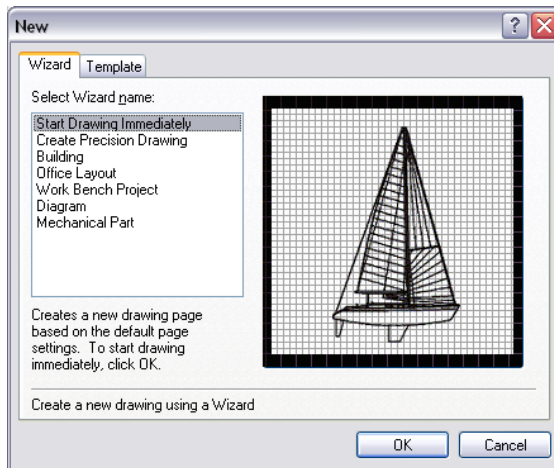
- ☐ Create a 3D parallel extrusion.
- ☐ Use the Standard toolbar.
- ☐ Use the 3D Effects toolbar.

While two-dimensional drawings are the basic building blocks of most projects, you might need a three-dimensional view of a project. In AutoSketch, you can simulate three-dimensional drawings through *parallel* and *perspective* extrusion.

- 3D parallel extrusion creates a copy of the selection set that you place in the drawing. AutoSketch connects corresponding edges with lines or polygons. You learn how to create a 3D parallel extrusion in this exercise.
- 3D perspective extrusion creates a scaled copy of the selection set. You place the copy anywhere in the drawing, and AutoSketch connects the corresponding edges using lines or polygons.

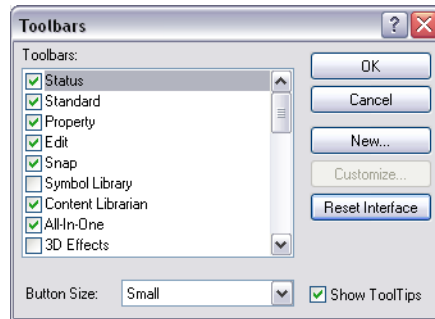
To apply parallel extrusion to an entity

- 1 On the File menu, click New. In the New dialog box, click Start a Drawing Immediately, and then click OK.

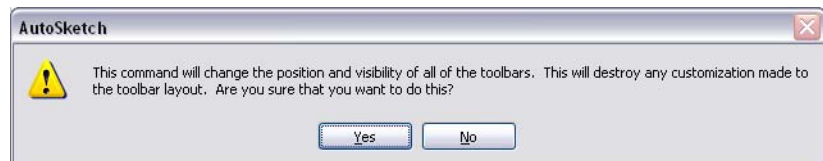


Now, you reset the interface to make sure your settings match the tutorial's instructions.

- 2 On the View menu, click Toolbars.



- 3 In the Toolbars dialog box, in the lower-right corner, click Reset Interface.
- 4 In the warning message that is displayed, click Yes.



Your drawing window is now opened and set up for this tutorial.

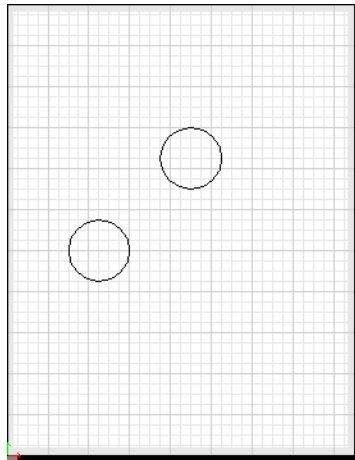


- 5 On the Snap toolbar, click the Centerpoint Snap button to turn it on.



- 6 On the All-In-One toolbar, click the Circle button.
- 7 On the toolset, drag the pointer to select Center, Side Circle.
- 8 In the drawing, create two circles of roughly the same size.

Your drawing should look similar to the following illustration.

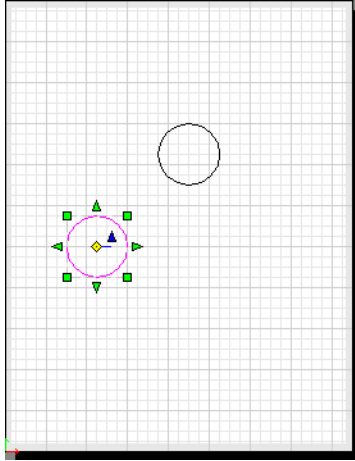




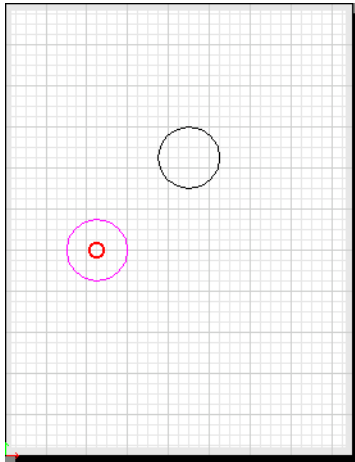
- 9 On the Standard toolbar, click the 3D Effects button.  
The 3D Effects toolbar is displayed.



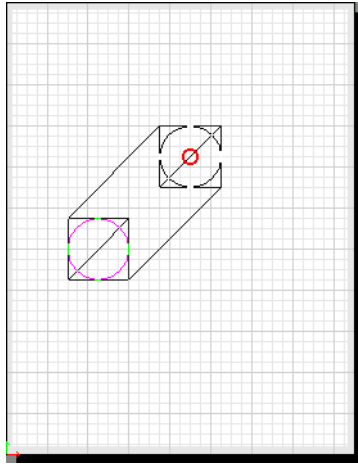
- 10 Click the circle that is closer to the bottom of the drawing.



- 11 On the 3D Effects toolbar, click the 3D Parallel Extrusion button.  
12 In the drawing, click the bottom circle again.



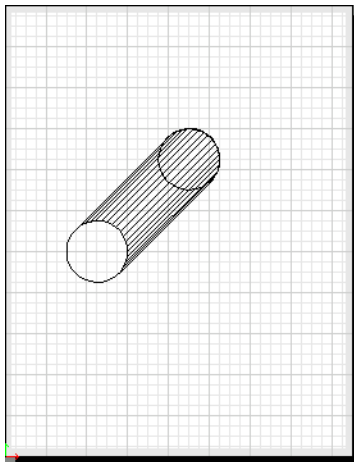
This is the first of two points that define the distance and direction that the selection set will be extruded. A rubber-band extrusion appears and moves the same distance and direction as the pointer.



**13** Click the edge of the second circle. The selection set is extruded.

**14** Right-click to end the command.

Your drawing should look similar to the following illustration.



**15** On the File menu, click Close.

**16** In the Save Changes to Drawing dialog box, click No.

# Use Web Tools

AutoSketch Web tools include Web editing tools (such as eTransmit, and hyperlinks creation).

## Use eTransmit

**In this exercise, you learn to**

- ☐ Create a transmittal set of an AutoSketch drawing and related files.
- ☐ Email the transmittal set (an Internet connection is required).
- ☐ Check the receipt of the transmittal set and save it (an Internet connection is required).

With eTransmit, you can create a transmittal set of an AutoSketch drawing that automatically includes all related files. You then publish the transmittal set as an email attachment.

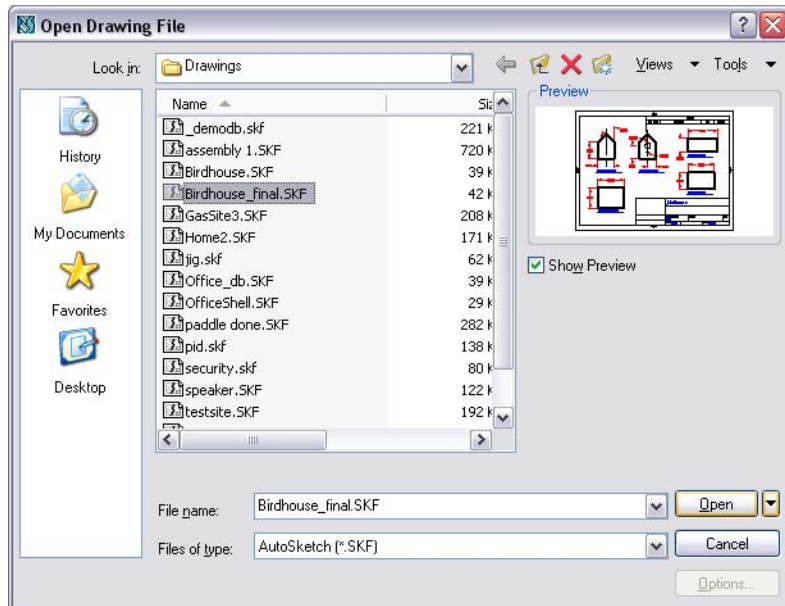
When you use eTransmit, a report file is automatically generated that includes instructions detailing what files are included in the transmittal set and what must be done with them so that they are usable by the original drawing. You can also do the following:

- Add notes to the report and specify password protection for the transmittal set.
- Specify path options for the transmittal set and create a self-extracting executable or zip file that packages all the files.

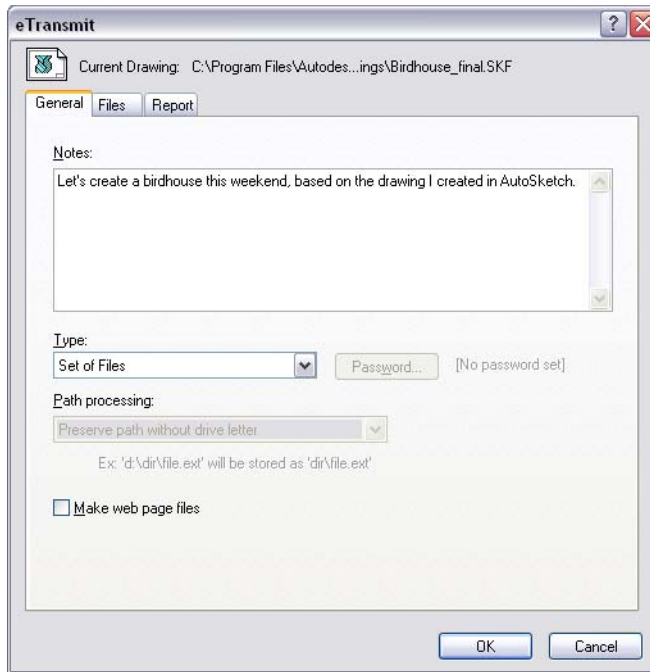
### **To create a transmittal set**

- 1 On the File menu, click Open.

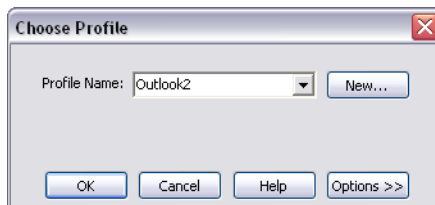




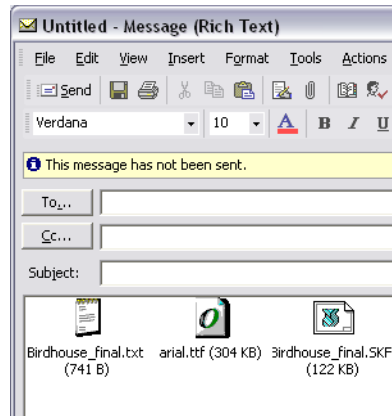
- 2 In the Open Drawing File dialog box, in the *Drawings* folder, click *Birdhouse\_final.skf*. Then, click Open. (This drawing is the completed drawing that you worked on in Tutorial 1, “Create a Birdhouse Drawing.”)
- 3 On the File menu, click eTransmit.



- 4 In the eTransmit dialog box, in the Notes section, add any notes you want.
- 5 In the Type list, select Set of Files.
- 6 Clear the check box next to Make Web Page Files. You don't make a Web page in this exercise.
- 7 Click OK.
- 8 If the Choose Profile dialog box is displayed, click OK.



Your default email program opens with an email that contains the files, as shown in the following illustration.



- 9 In your email program, enter your own email address, and send the email.
- 10 Check your email inbox, and save the transmitted files.
- 11 In AutoSketch, on the File menu, click Close. Do not save your work.

## Create a Hyperlink

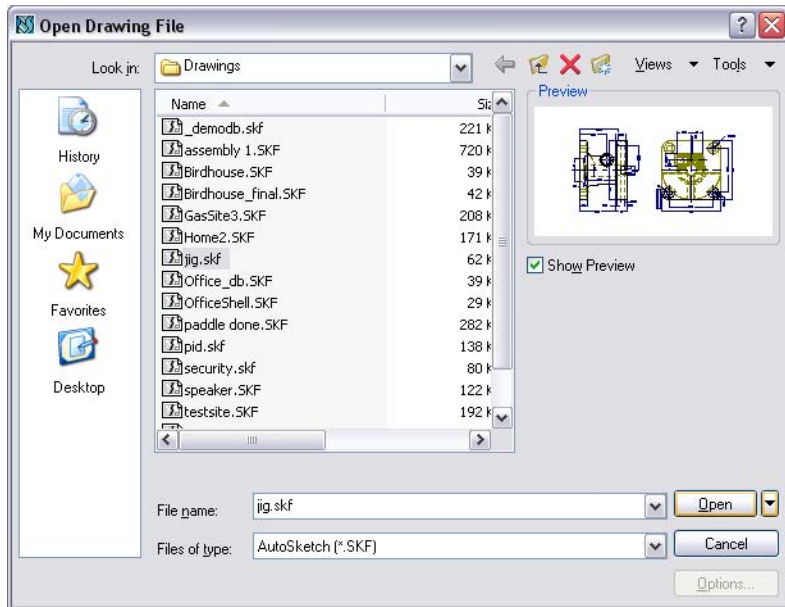
In this exercise, you learn to

- ☐ Assign a hyperlink to a Web site.
- ☐ Open the Web site (an Internet connection is required).

You can assign hyperlinks to entities in your drawings that point to Web pages, or to other files stored on local servers or on the Internet.

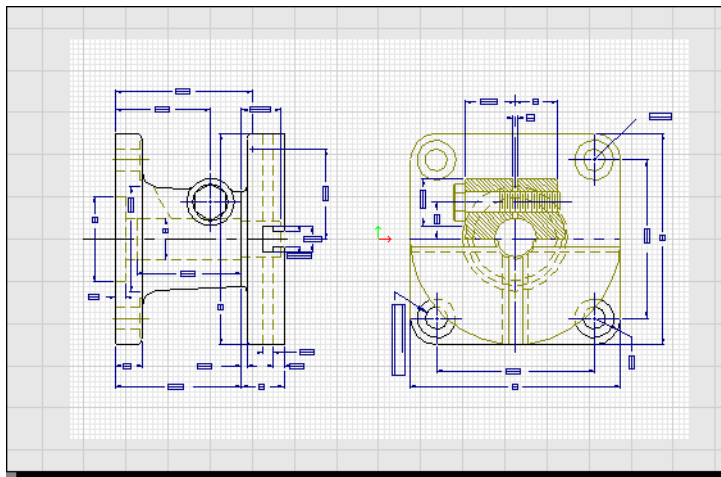
To assign a hyperlink to a Web site

- 1 On the File menu, click Open.



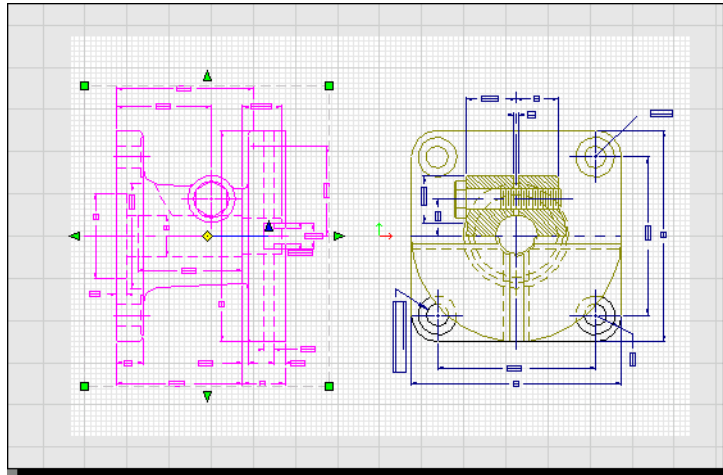
- 2 In the Open Drawing File dialog box, in the *Drawings* folder, click *Jig.skf*. Then, click Open.

The drawing you opened should match the following illustration.

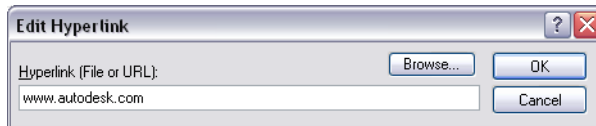


- 3 Click and drag your pointer from the top left portion of the illustration on the left to the lower-right corner of that illustration. When all of the entities in the illustration on the left are selected, release the mouse.

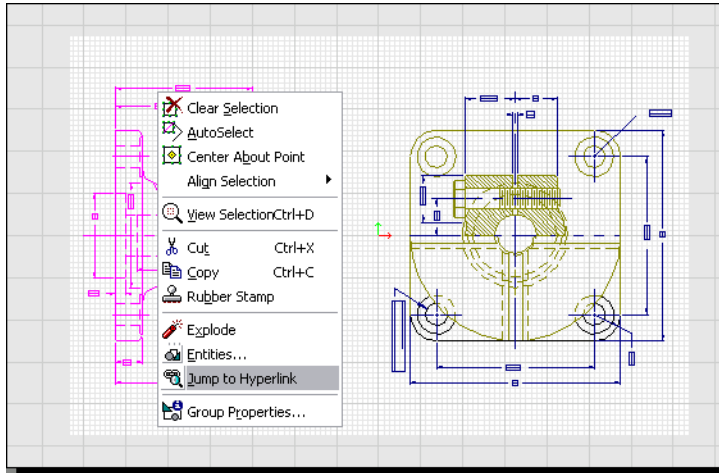
The drawing should match the following illustration.



- 4 With the entity still selected, right-click, and then click Group. Do not right-click again, because you want the entity to remain selected.  
The individual entities are now grouped into a single entity. Now, assign a hyperlink to this grouped entity.
- 5 On the Database menu, click Edit.
- 6 In the Edit Hyperlink dialog box, in the Hyperlink (File or URL) text box, enter **www.autodesk.com**, and then click OK.



The entity you grouped is now hyperlinked to the Autodesk Web site.



- 7 Anywhere in the grouped entity, right-click, and then click Jump to Hyperlink.

If you have an Internet connection, the Web site now opens.

## Generate a Database Report

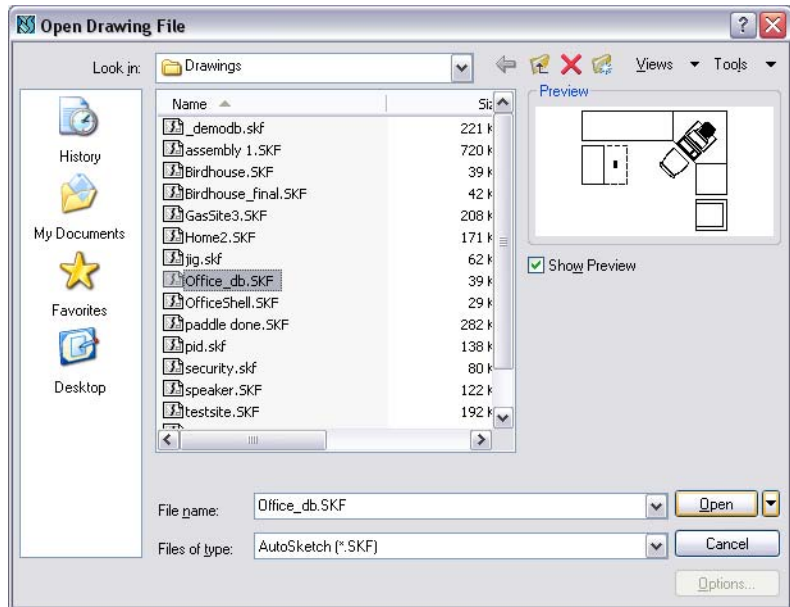
**In this exercise, you learn to**

- ☐ View a symbol's properties.
- ☐ Select a database report.
- ☐ Run a report.
- ☐ Print a report.

The office plan you use for this exercise is a simple office plan, much like the office layout you created in an earlier tutorial. This drawing contains several symbols, each of which represents individual office items that can be ordered from a manufacturer. Using the database feature in AutoSketch, you can create a database report to run when the time comes to order the items.

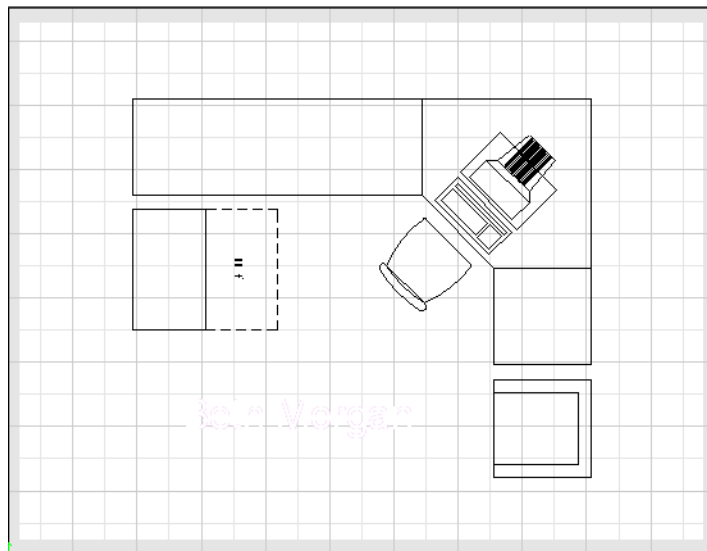
**To create a database report**

- 1 On the File menu, click Open.

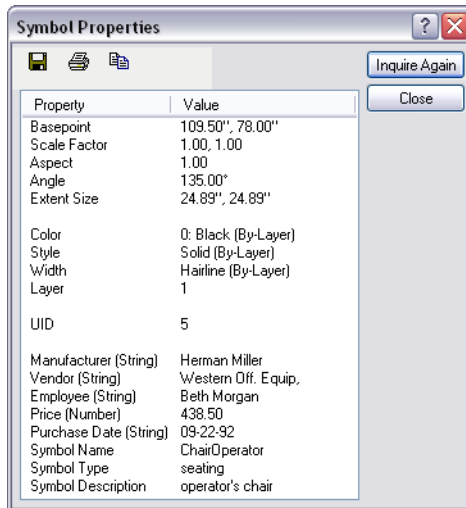


- 2 In the Open Drawing Files dialog box, in the *Drawings* folder, click *Office\_db.skf*. Then, click *Open*.

The drawing you opened should match the following illustration.

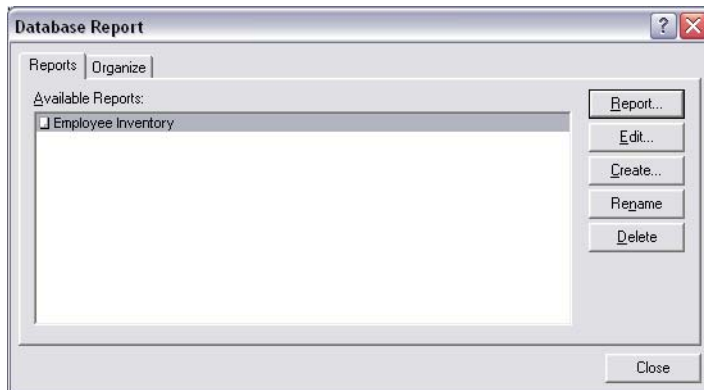


- 3 In the drawing window, right-click the chair, and then click Symbol Properties to display the Symbol Properties dialog box.



The chair symbol contains a lot of information. Viewing the Symbol Libraries dialog box, you can find out this symbol's properties and values, such as its basepoint, scale factor, color, width, layer, name, and manufacturer. This information can be extracted to a database report.

- 4 In the Symbol Properties dialog box, click Close.
- 5 In the drawing, press CTRL-A to select all entities.
- 6 On the Database menu, click Report.

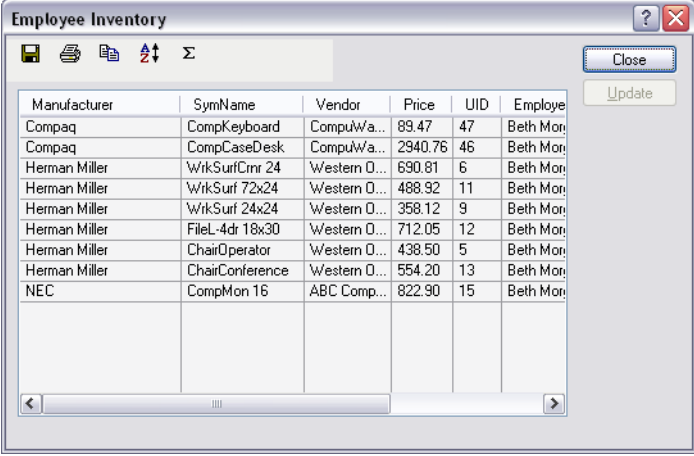


In the Database Report dialog box, you can see that one report, "Employee Inventory," is selected.



7 Click Report.

The Employee Inventory report is generated, as shown in the following illustration.



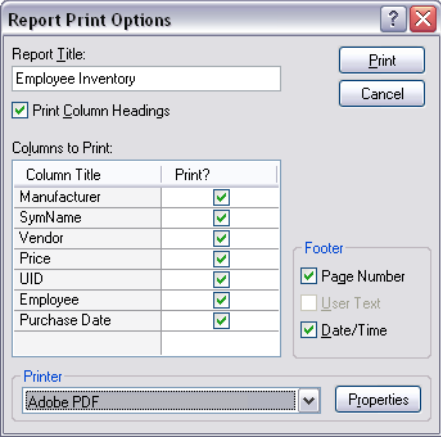
The Employee Inventory window displays a table with the following data:

Manufacturer	SymName	Vendor	Price	UID	Employee
Compaq	CompKeyboard	CompuWa...	89.47	47	Beth Mon
Compaq	CompCaseDesk	CompuWa...	2940.76	46	Beth Mon
Herman Miller	WikSurfCmr 24	Western O...	690.81	6	Beth Mon
Herman Miller	WikSurf 72x24	Western O...	488.92	11	Beth Mon
Herman Miller	WikSurf 24x24	Western O...	358.12	9	Beth Mon
Herman Miller	FileL-4dr 18x30	Western O...	712.05	12	Beth Mon
Herman Miller	ChairOperator	Western O...	438.50	5	Beth Mon
Herman Miller	ChairConference	Western O...	554.20	13	Beth Mon
NEC	CompMon 16	ABC Comp...	822.90	15	Beth Mon



8 In the Employee Inventory window, on the toolbar, click the Print button.

9 In the Report Print Options dialog box, click Print to print the Employee Inventory report.



The Report Print Options dialog box contains the following settings:

- Report Title: Employee Inventory
- ☒ Print Column Headings
- Columns to Print:
 

Column Title	Print?
Manufacturer	<input checked="" type="checkbox"/>
SymName	<input checked="" type="checkbox"/>
Vendor	<input checked="" type="checkbox"/>
Price	<input checked="" type="checkbox"/>
UID	<input checked="" type="checkbox"/>
Employee	<input checked="" type="checkbox"/>
Purchase Date	<input checked="" type="checkbox"/>
- Footer:
  - ☒ Page Number
  - ☐ User Text
  - ☒ Date/Time
- Printer: Adobe PDF

Nice work! You have completed all of the tutorials offered in *Getting Started*. Now, you can become more proficient with CAD, explore AutoSketch, and use the program for your drawing needs.

To find out how to perform tasks not highlighted in these tutorials, or to learn more conceptual information, see the AutoSketch Help system.

