

ACCESS USER GROUP - EUROPE

APRIL 3, 2024

Access Shortcut Tool Demo
Simple Audit Log

PRESENTER:

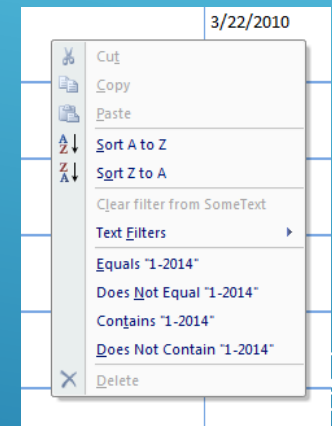
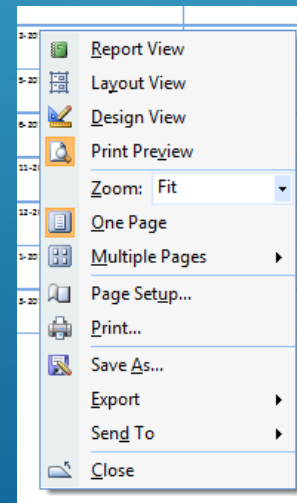
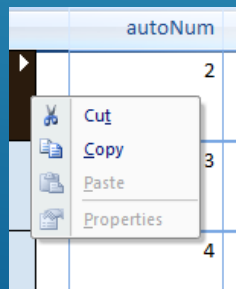
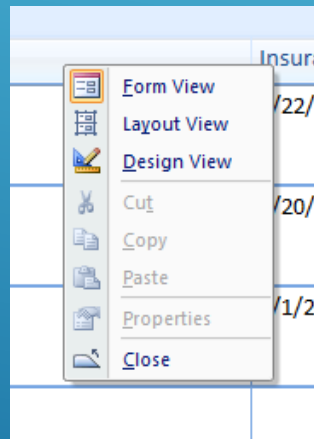
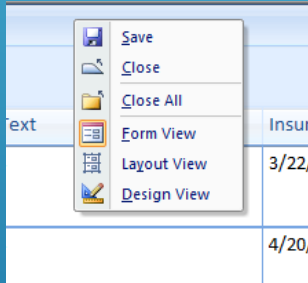


- ▶ Dale Fye
- ▶ Owner: Dev-Soln, LLC (Developing Solutions)
- ▶ Microsoft Access MVP (2013-2016)
- ▶ www.dev-soln.com

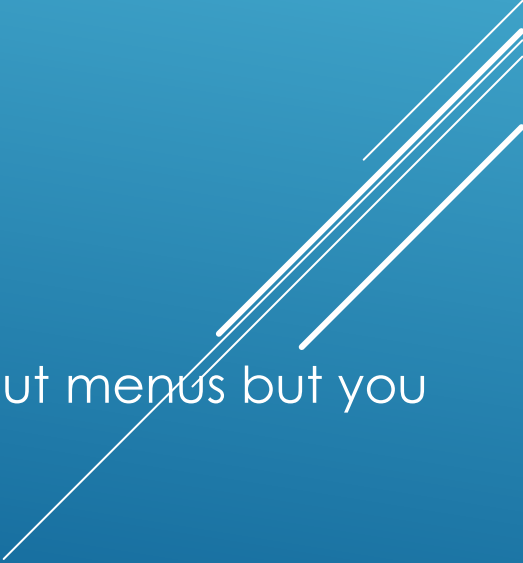
- ▶ Retired Army Officer
- ▶ Access developer since 1994
- ▶ Contribute on Experts Exchange

WHAT IS A SHORTCUT MENU

- ▶ Technically, it is a member of the CommandBars collection



Commandbar History

- ▶ Shortcut menus are an integral part of all Windows applications.
 - ▶ Each windows application has its own set of shortcut menus.
 - ▶ Through A2003 – Access had a built in tool for creating menu bars and shortcut menus.
 - ▶ Feature (built-in tool) deprecated with A2007
 - ▶ still able to import menu bars and shortcut menus from earlier versions.
 - ▶ A2010+
 - ▶ “Menu” commandbars were replaced by Ribbon
 - ▶ still able to import shortcut menus
 - ▶ Shortcut menus still available:
 - ▶ build shortcut menus using code
 - ▶ Import from previous versions
 - ▶ Runtime applications do not use the default shortcut menus but you can use your own.
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ACCESS COMMANDBARS

How many are there?

```
?application.commandbars.count
```

What are they?

```
For each cbr in application.commandbars
```

```
    debug.print cbr.name
```

```
Next
```

What controls do they contain?

```
With commandbars("Form Datasheet Column")
```

```
    for intloop = 1 to .Controls.Count
```

```
        debug.Print .Controls(intLoop).Caption, .Controls(intLoop).ID
```

```
    next
```

```
End with
```



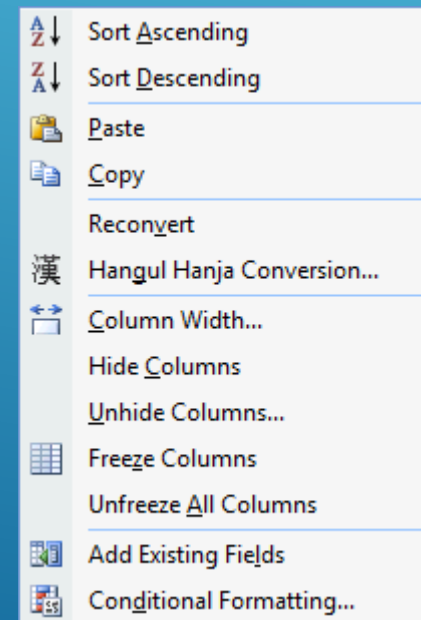
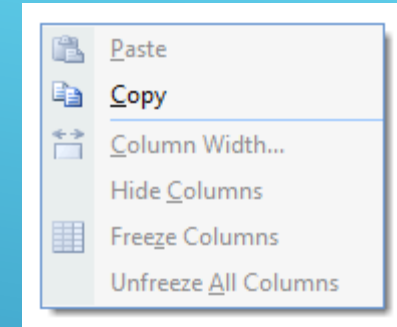
DISPLAYING ELEMENTS OF A COMMANDBAR

Commandbars("Form Datasheet
Column").ShowPopup

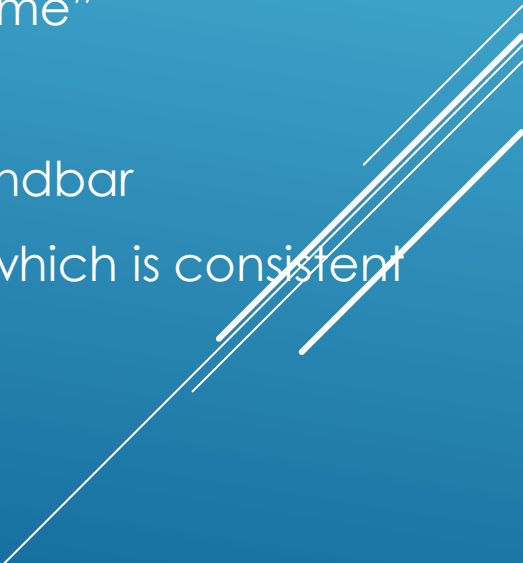
Actual list of all controls in the
commandbar.

Note:


Built-in shortcut menus are context sensitive. Some controls will be hidden others will be enabled/disabled depending on the context the menu is used in.



BUILT-IN MENUS

- ▶ There are over 200 built in menus
 - ▶ Hard to determine exactly which commandbar is visible
 - ▶ Determining values of various properties of a commandbar and its controls is difficult
 - ▶ Commandbars have a “Name” property
 - ▶ Controls have a “Caption” property but not “Name”
 - ▶ Commandbar.Index property is not consistent:
 - ▶ changes after adding or deleting a commandbar
 - ▶ Commandbar controls have an index property which is consistent
 - ▶ FaceID (for images) of the built-in controls
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USING BUILT-IN COMMANDBARS

- ▶ I frequently disable the built-in commandbars on forms and reports.
 - ▶ Built-in commandbars are disabled in runtime applications
 - ▶ Difficult to determine which commandbar you are seeing, especially with datasheets (21 separate cbars)
 - ▶ You can manipulate built-in commandbars in your applications
 - ▶ **Be really careful when doing this.**
 - ▶ Recommend making these temporary
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CREATING YOUR OWN SHORTCUT MENU

- ▶ Early Binding:

- ▶ Microsoft Office XX.0 Object Library

- ▶ Declare variables

```
Dim cbr as CommandBar , ctrl as CommandBarControl  
Dim cbrButton As CommandBarButton  
Dim cbrcombo As CommandBarComboBox
```

- ▶ Define commandbar

```
set cbr = CommandBars.Add(Name, [Position], [Menubar], [Temporary])  
Name      := name used to refer to the commandbar  
Position  := Must be 5 for shortcut menus  
Menubar   := [True/False] Replace the active menu bar – default is False  
Temporary := False if you want the cbar to remain in the application  
permanently
```

ADDING CONTROLS

► Defining Controls:

```
Set ctrl = cbr.Controls.Add([Type], [ID], [Parameter], [Before], [Temp])
```

Type := msoConrolButton,
msoControlEdit,
msoControlDropdown,
msoControlPopup

ID := value of the ID from any of
the built-in controls

Parameter := any value you want to
pass to the procedure which will be
executed when the option is selected

Before := where you want the control
in the commandbar. If greater than
the number of controls in the
commandbar, it will raise an error

Temp := False if you want the
control to remain between sessions

```
Set ctrl0 = .Add(Type:=1, Temporary:= -1)  
With ctrl0  
    .Caption = "&Print"  
    .OnAction = "=fnReportPrint()"  
    .FaceID = 4  
    .Visible = -1  
    .Enabled = -1  
    .BeginGroup = 0  
    .ToolTipText = "&Print"  
    .Width = 177  
End With
```

CONTROL PROPERTIES

.Caption := same as form caption

.OnAction := "=fnReportPrint()"

- this refers to the procedure which will run when the option is selected

.FaceID := if using one of images associated with built-in options

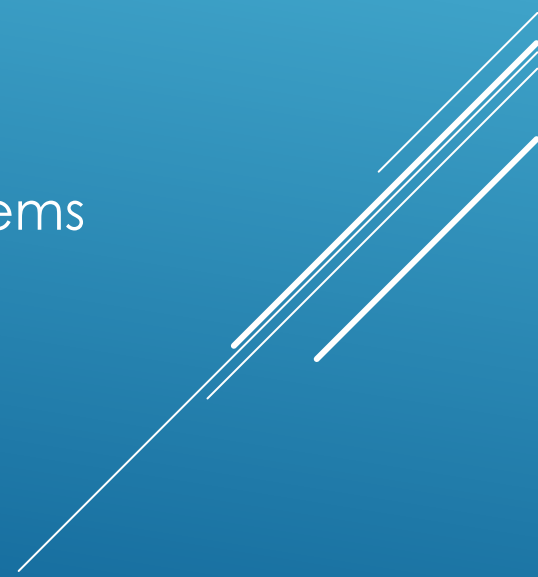
.Visible := self explanatory

.Enabled := self explanatory


.BeginGroup := insert a line separator between items

.ToolTipText := self explanatory


.State := Checked or unchecked



RUNTIME SHORTCUT MENUS

- ▶ Built-in menus are disabled
 - ▶ You can copy and use the built-in menus but takes a bit more work.
 - ▶ [Article](#) on using commandbars in runtime environment
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ACCESS SHORTCUT TOOL

- ▶ Shortcut Tool contains
 - ▶ What's This Menu option
 - ▶ Add New
 - ▶ Copy commandbar
 - ▶ Import – both toolbar and code
 - ▶ After selecting a commandbar, you can see all of the properties of each of the controls
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ACCESS SHORTCUT TOOL

Access Shortcut Tool V1.01.03 (2/14/2019)

Options Filters

Existing CommandBars


Index	Name	Built-In	Position	Type
1	Property Sheet	<input checked="" type="checkbox"/>	Floating	Normal
2	Form Datasheet Subcolumn	<input checked="" type="checkbox"/>	Popup	PopUp
3	Form Datasheet Cell	<input checked="" type="checkbox"/>	Popup	PopUp
4	Form Datasheet Row	<input checked="" type="checkbox"/>	Popup	PopUp
5	Navigation Pane Category Po	<input checked="" type="checkbox"/>	Popup	PopUp
6	Form View Popup	<input checked="" type="checkbox"/>	Popup	PopUp
7	Form View Record	<input checked="" type="checkbox"/>	Popup	PopUp
8		<input checked="" type="checkbox"/>	Popup	PopUp
9	Subform Datasheet	<input checked="" type="checkbox"/>	Popup	PopUp
10	Form Datasheet Column	<input checked="" type="checkbox"/>	Popup	PopUp
11	Form View Control	<input checked="" type="checkbox"/>	Popup	PopUp
12	Menu Bar	<input checked="" type="checkbox"/>	Top	MenuBar
13	Database Table/Query	<input checked="" type="checkbox"/>	Popup	PopUp
14	Database Form	<input checked="" type="checkbox"/>	Popup	PopUp
15	Database Report	<input checked="" type="checkbox"/>	Popup	PopUp
16	Database Macro	<input checked="" type="checkbox"/>	Popup	PopUp
17	Database Module	<input checked="" type="checkbox"/>	Popup	PopUp
18	Database TitleBar	<input checked="" type="checkbox"/>	Popup	PopUp
19	Table DesignTitleBar	<input checked="" type="checkbox"/>	Popup	PopUp
20	Table Design Upper Pane	<input checked="" type="checkbox"/>	Popup	PopUp
21	Table Design Lower Pane	<input checked="" type="checkbox"/>	Popup	PopUp
22	Table Design Properties	<input checked="" type="checkbox"/>	Popup	PopUp

Controls for: Form Datasheet Subcolumn

ID	Seq	Index	Caption	Type Desc	OnAction
1	1	1	Show &My Shortcuts	Button	=dfcibt_FilterMyShortcuts()
31220	2	2	S&ubform	PopUp	
6715	3	1	--&Form	Button	
1823	4	2	--&Datasheet	Button	
6716	5	3	--Pivot&Table	Button	
6717	6	4	--Pivot&Chart	Button	
1	7	5	--	Button	
210	8	3	Sort &Ascending	Button	
211	9	4	Sort &Descending	Button	
19	10	5	&Copy	Button	
22	11	6	&Paste	Button	
3720	12	7	Recon&vert	Button	
3492	13	8	Han&gul Hanja Conversion	Button	
542	14	9	&Column Width...	Button	
1955	15	10	Hide &Columns	Button	
2764	16	11	&Unhide Columns...	Button	
544	17	12	Free&ze Columns	Button	
1794	18	13	Unfreeze &All Columns	Button	
501	19	14	Add Existing Fie&lds	Button	
3058	20	15	Con&ditional Formatting.	Button	

Add New Copy Import Delete Rename Preview Add Control to cBar Add Control to PopUp Delete Edit Control


ARTICLES AND OTHER RESOURCES

- ▶ Articles
 - ▶ [Understanding and using CommandBars Part 1](#)
 - ▶ [Understanding and using CommandBars Part 2](#)
 - ▶ [Using built-in Shortcut Menus](#)
 - ▶ [Using Shortcut menus in Access run-time](#)
 - ▶ [Access Shortcut Tool](#)
- 


SIMPLE AUDIT LOG

- ▶ Used to keep track of changes to data values
 - ▶ Common uses:
 - ▶ Financial Systems
 - ▶ Public records
 - ▶ Personal records
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GENERAL TECHNIQUE

- ▶ Create a separate “audit” table for each table you want to track changes
 - ▶ Use the Form before and after update events to write entire record to the “audit” table
 - ▶ Issues:
 - ▶ Database bloat
 - ▶ Hard to determine what has changed between records
- 

MY TECHNIQUE

- ▶ Single “Audit” table with fields for:
 - ▶ Table name
 - ▶ Action (Insert, Edit, Delete)
 - ▶ Action By: who made the change
 - ▶ Action_DT: when action was taken
 - ▶ Record_ID: PK for the record inserted, edited or deleted
 - ▶ Field name: name of the field that was changed
 - ▶ Field value: value that the field was changed to
- 

PROCESSES

- ▶ Uses the following events
 - ▶ Form_BeforeUpdate
 - ▶ Form_AfterUpdate
 - ▶ Form_Delete
 - ▶ Form_AfterDelConfirm
 - ▶ One line of code in each event
 - ▶ BeforeUpdate and Delete events save data to [Audit_Log_Temp] table
 - ▶ AfterUpdate and AfterDeleteConfirm move data from “temp” table to “Audit_Log” table
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RESOURCES

- ▶ Articles
 - ▶ [Simple Audit Log](#)

