

```

!RE-STORE "Access.prg"
!
!*****
! "Microsoft Access example #1" for Tech Soft's MS Office function library
!
! (c) Tech Soft GmbH 1999-2007          http://www.TechSoft.de
! Author:          Sven Henze
! Date:           03-Sep-2001
! Last change:    11-May-2007
!
!*****
!
! Description:
!
! This example application works with a test database "template_xx.mdb"
! You must select the proper database for your version of Access *before*
! you start this example program !
!
! This program only works with MS Access 2.0 and higher. It has been tested with:
! MS Access 2.0, Access 95, Access 97, Access 2000, Access 2002 (XP), Access 2003
!
! Please make sure that you have "Allow DDE updates" enabled in the Tools->Options
! menu in MS Access.
!
! *** IMPORTANT NOTE: ***
! If you want to open create tables, delete records etc. it is required to change
! the settings under "Tools->Options->Edit/Find -> Confirm" (uncheck the three options)
! If you use Access 2003 and higher you may also have to set the macro security level
! to "Low" in order to be able to open databases.
!
!
! INTEGER Verbose=1          ! switch on/off verbose mode (0=off)
!
! Load the high level function library if not already loaded
! IF NOT INMEM("Dde_lib_start") THEN LOADSUB ALL FROM "htbdde.lib"
!
!
! Now we call the custom SUB where the Office functions will be executed
! If you need more calling parameters either include them in the SUB definition
! or use COM blocks
!
! CALL Dde_mainprog(Verbose)
!
! cleaning up SUB programs (in order to make sure that the most recent versions are loaded every time)
! DELSUB Dde_lib_start TO END
!
! END
!
! SUB Dde_mainprog(OPTIONAL INTEGER Verbose)
!
! *****
! *
! * MS Office Interface for HTBasic: Microsoft Access example #1
! *
! * Version : 2.10.14
! * Author  : Sven Henze, Tech Soft GmbH
! * Created : 09-Jan-2001
! * Updated : 11-May-2007
! *
! *
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! *
! *****
!
! define some variables
!
! DIM Doc_template$(1:10) [255], Doc_file$ [255], App_exe$ [255], Topic$ [255], Tmp$ [8192], Htbvers$ [80], Os$ [255], Question$ [1024]
! INTEGER Printer, Btn, Sys_chn(1:5), Doc_chn(1:10), Result(1:10), App_quit, Language, Printlen, Dummy, Access20
! DIM Ddecmd$ [255], Info$ [2048], Bookmark$ [128], Doc_password$ [128], Sel$ [255], Struct_file$ [255], Topics$ [4096]
! DIM Old_dbname$ [255], Sql$ [8192]
! DIM G$ [5], X$ [5], Hl$ [5], Hx$ [5], App$ [255], Crlf$ [8]
!
! ON ERROR GOSUB Dde_err_handler          ! Global error handler
!
!
! INTEGER Verb_
! Verb_=0
! IF NPAR>=1 THEN
!     IF Verbose>0 THEN Verb_=1
! END IF
!
! Printlen=FNDde_defprintlen ! define printlen for this session
!
! ! define colors and other settings
! INTEGER Custom_colours
! INTEGER Lctype
! DIM Lcdata$ [255]
!
! Custom_colours=1          ! use custom colours (set to 0 if you do not wish to change colour palette)
!
! IF NOT FNDde_init_system(Custom_colours) THEN STOP
!
! IF Verb_>0 THEN CALL Dde_programhead("HTBasic - Microsoft Access Example #1")
!
! ! define the application (select the desired application and comment out the remaining strings!
! App$="Access"          ! MS Access
!
! !
! ! Application quit behaviour
! ! Values: 0 = Do not close the application ever
! !         1 = Close the application after all DDE commands have been sent without any warning

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!           2 = Prompt the user to close the application
!           >2 = App_quit=Timeout value (prompt the user to close the application until the given timeout has reached)
!               If timeout occurs the dialog will be closed and the application will not be closed automatically
App_quit=2
!
Topic$="Msaccess"
Access20=0                ! set this variable to "1" if you are using MS Access 2.0 (16 Bit)
!
Tmp$=""
IF Access20 THEN Tmp$=" (16 Bit)"
!
! Caution !!
! Please select the proper example database *before* you start the program
!
!
! Doc_template$(1)=SYSTEM$("MSI")&"\template_2007.accdb"    ! MS Access 2007 template / database
Doc_template$(1)=SYSTEM$("MSI")&"\template_xp.mdb"        ! MS Access XP template / database
! Doc_template$(1)=SYSTEM$("MSI")&"\template_97.mdb"       ! MS Access 97 template / database
IF Access20 THEN Doc_template$(1)=FNDde_short_fname$(SYSTEM$("MSI")&"\templ_20.mdb") ! MS Access 2.0 (16 Bit) template /
database
!
!
IF Topic$<>" " AND App$<>" " THEN
  App_exe$=Topic$&".exe"
ELSE
  Topic$=App$
  App_exe$=""
END IF
!
G$=CHR$(19)                ! character code for inverse printing
X$=CHR$(16)                ! character code for normal printing
H1$=CHR$(30)               ! character code for "highlighted" printing (different color)
Hx$=CHR$(24)               ! character code for "normal" printing (color)
CrLf$=CHR$(10)&CHR$(13)
!
CALL Dde_start(App_exe$,Topic$,Sys_chn(1),Language,Verb_)    ! start the DDE application defined in Topic$
!
IF NOT Sys_chn(1) THEN
  BEEP
  GOTO Finish
END IF
!
ALPHA PEN 3
IF Verb_>0 THEN OUTPUT CRT;" "&CHR$(20)&"Sending DDE commands to "&Topic$&Tmp$&X$
ALPHA PEN 1
!
! first open the Access database defined in Doc_template$(1)
Doc_chn(1)=FNDde_openfile(Topic$,Sys_chn(1),Doc_template$(1),Result(1),Doc_password$,Verb_)
!
IF NOT Doc_chn(1) THEN
  BEEP
  GOTO Finish
END IF
!
!
Myown_dde_cmds: !
!-----
! ***** Custom DDE programming starts here *****
!
! Todo: Write your own MS Office programming code here
!
! CALL Dde_driver_info          ! shows info about DDE driver version and date
!-----
!
! *** Example #1: Create table "Employees" with 4 data fields and one index field ***
CY) """]"
Sql$="[RUNSQL ""CREATE TABLE [Employees] ([Index] COUNTER, [Firstname] TEXT, [Lastname] TEXT, [Sex] TEXT, [Salary] CURREN
CALL Sendcommand(Doc_chn(1),Sql$,Result(1),"Creating new table '&H1$&"Employees"&Hx$&"' ",Printlen,Verb_)
!-----
!
! *** Example #2: Create new record (table entry) ***
", """"3400"""""""]"
Sql$="[RUNSQL ""INSERT INTO [Employees] (Firstname,Lastname,Sex,Salary) VALUES (""""Mike"""" , """"Dundee"""" , """"male""""
CALL Sendcommand(Doc_chn(1),Sql$,Result(1),"Creating new record '&H1$&"Mike Dundee"&Hx$&"' ",Printlen,Verb_)
!-----
!
! *** Example #3: Create another record ***
]""
Sql$="[RUNSQL ""INSERT INTO [Employees] (Firstname,Lastname,Salary) VALUES (""""Jon"""" , """"Johnson"""" , """"3200""""""")"
CALL Sendcommand(Doc_chn(1),Sql$,Result(1),"Creating new record '&H1$&"Jon Johnson"&Hx$&"' ",Printlen,Verb_)
!
CALL Dde_enter_kbd("Press <RETURN> to delete record 'Jon Johnson'")
!-----
!
! *** Example #4: Now try to delete record 'Ben Johnson' ***
!
Sql$="[RUNSQL DELETE * FROM [Employees] WHERE Lastname=""Johnson"]"
CALL Sendcommand(Doc_chn(1),Sql$,Result(1),"Deleting record '&H1$&"Jon Johnson"&Hx$&"' ",Printlen,Verb_)
!-----
!
! *** Example #5: Add new field 'Birthday' to table definition ***
!
Sql$="[RUNSQL ALTER TABLE [Employees] ADD COLUMN [Birthday] TEXT]"
CALL Sendcommand(Doc_chn(1),Sql$,Result(1),"Adding new field '&H1$&"Birthday"&Hx$&"' ",Printlen,Verb_)
!-----
!
! *** Example #6: Create another record ***

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!
Sql$="[RUNSQL ""INSERT INTO [Employees] (Firstname,Lastname,Sex,Birthday) VALUES (""Maggie"", ""Smith"", ""fema
le"", ""27.10.1962"")"]"
CALL Sendcommand(Doc_chn(1),Sql$,Result(1),"Creating new record '&Hl$&'Maggie Smith'&Hx$&'",Printlen,Verb_)
!
! *** Example #7: Add new field 'real' to table definition ***
!
Sql$="[RUNSQL ALTER TABLE [Employees] ADD COLUMN [Numbers] DOUBLE]"
CALL Sendcommand(Doc_chn(1),Sql$,Result(1),"Adding new field '&Hl$&'Numbers'&Hx$&' ",Printlen,Verb_)
!
! *** Example #8: Create another record ***
!
Sql$="[RUNSQL ""INSERT INTO [Employees] (Firstname,Lastname,Numbers,Birthday) VALUES (""Miss"", ""Piggy"", ""27
,12345678"", ""27.10.1962"")"]"
CALL Sendcommand(Doc_chn(1),Sql$,Result(1),"Creating new record '&Hl$&'Miss Piggy'&Hx$&'",Printlen,Verb_)
CALL Dde_enter_kbd("Press <RETURN> to delete table 'Employees'")
!
! *** Example #9: Now try to delete table 'Employees' ***
!
Sql$="[RUNSQL DROP TABLE [Employees]]"
CALL Sendcommand(Doc_chn(1),Sql$,Result(1),"Deleting table '&Hl$&'Employees'&Hx$&' ",Printlen,Verb_)
!
! ***** Custom DDE programming ends here *****
!
=====
!
CALL Dde_focus2basic ! bring HTBasic window back to front
!
! Save file under the name specified in Doc_template$(2). Ask for overwrites
! (This command has no effect with MSAccess databases since the databases will be saved
! automatically after each RUNSQL command)
Dummy=FNDde_savefile(Topic$,Doc_chn(1),Doc_template$(2),Result(1),0,"",Verb_)
!
Dde_enter_kbd(" Press <RETURN> to close the document(s).")
!
! Close file and ask if file should be saved
! Doc_chn(1)=FNDde_closefile(Topic$,Sys_chn(1),Doc_template$(1),Result(1))
!
! Close file, do not ask for save
Dummy=FNDde_closefile(Topic$,Sys_chn(1),Doc_template$(1),Result(1),1,Verb_)
!
Finish:
! terminate all DDE connections and resources
! if variable "App_quit" is set to 1 or greater the application will be closed
CALL Dde_quit(Sys_chn(1),Doc_chn(1),Result(1),App_quit,Topic$,Verb_,1,1)
!
ALPHA PEN 4
DISP " Program finished."
ALPHA PEN 1
!
SUBEXIT
!
! Global error handler
Dde_err_handler: !
BEEP
Dde_enter_kbd("**** Global Error Handler ****"&CrLf$&CrLf$&ERRM$)
ERROR RETURN
!
SUBEND
!
SUB Sendcommand(INTEGER Ch1,Sql$,INTEGER Rs,Message$,INTEGER Printlen,OPTIONAL INTEGER Verbose)
!
! Sends SQL command to MS Access and print the result on the screen (if Verbose>0)
!
! Input: Ch1 = Program name (will be printed at the very right hand side of the header)
! Sql$ = Head text (e.g. "EADS - Defence and Security")
! Message$ = Message to be printed on the screen
! Printlen = Maximum Width of one print line
! Output: Rs = Result of command (0=ok, 1=failed)
!
! After the command has been initiated the results will be printed on screen
!
INTEGER Verb_
Verb_=0
IF NPAR>=6 THEN
IF Verbose>0 THEN Verb_=1
END IF
!
CALL Dde_fprint(" -> "&Message$,Printlen,Verb_)
CALL Ddeexecute(Ch1,Sql$,Rs) ! call the DDE function
CALL Dde_show_status(Rs,Verb_)
!
SUBEND

```