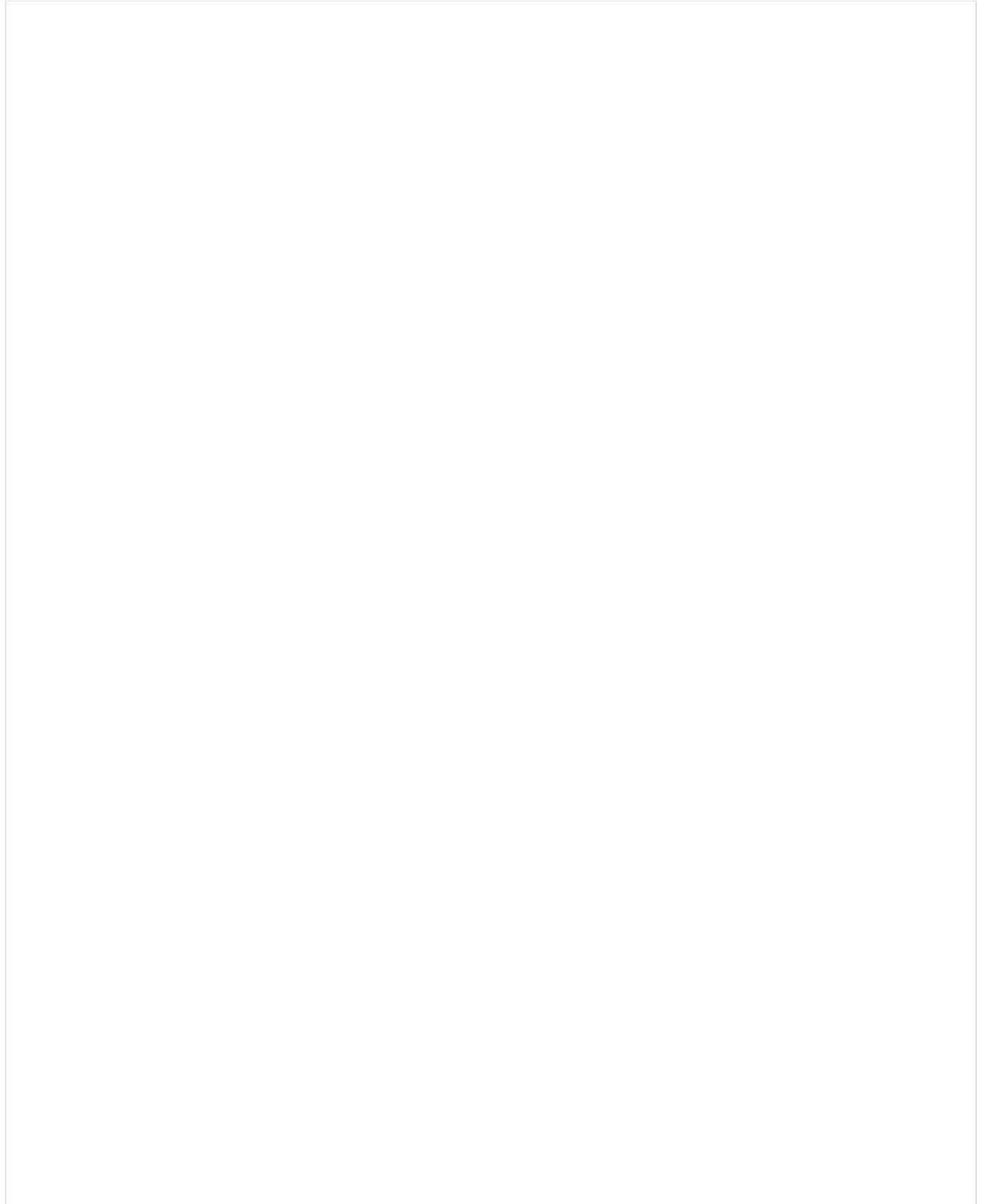


Example: work with a database table (actions DB_ ...)

The following example assumes that there are defined the objects `SD.DbStruct`, `TB.DTable`. Then the particular process `D2000 DBManager` must be started and a database with the particular `DSN` name must be correctly configured in the operating system.



```

INT _handle ; handle for access to the database
INT _retCode
TEXT _where
RECORD (SD.DbStruct)_dbRow ; artificial variables
RECORD (SD.DbStruct) _dbRowSave

; open the table to modify
DB_CONNECT TB.Table, _DB_MODIFY, _handle, _retCode
IF _retCode # _ERR_NO_ERROR THEN ; cannot connect to the database table
    END
ENDIF

; reading according to key value
_dbRow[1]^Int := 1
DB_READ _handle, _dbRow[1], _retCode
IF _retCode # _ERR_NO_ERROR THEN ; row not found
    END
ENDIF

; assign the original database table row to the artificial variable
SET _dbRowSave[1] WITH _dbRow[1] ; change text
_dbRow[1]^Text := _dbRow[1]^Text + "change"
; update the database table row according to the key value
DB_UPDATE _handle, _dbRow[1], _retCode
IF _retCode # _ERR_NO_ERROR THEN ; unsuccessful update
    END
ENDIF

; read the row again, but using WHERE clause
_where := "Int="+%IToStr(_dbRowSave[1]^Int)
DB_READ _handle, _dbRow[1], _retCode WHERE _where
IF _retCode # _ERR_NO_ERROR THEN ; there must be
    END
ENDIF

; read the row again, but using WHERE clause and parametrized condition
_where := "Int= #PAR#"
DB_READ _handle, _dbRow[1], _retCode WHERE _where BINDIN _dbRowSave[1]^Int
IF _retCode # _ERR_NO_ERROR THEN ; there must be
    END
ENDIF

; delete it
DB_DELETE _handle, _dbRow[1], _retCode
IF _retCode # _ERR_NO_ERROR THEN ; there must be
    END
ENDIF

; or using WHERE clause
;_where := "Int="+%IToStr(_dbRowSave[1]^Int)
;DB_DELETE _handle, __retCode WHERE _where
;IF _retCode # _ERR_NO_ERROR THEN ; there must be
; END
;ENDIF

; or using WHERE clause and parametrized condition
;_where := "Int=#PAR#"
;DB_DELETE _handle, __retCode WHERE _where BINDIN _dbRowSave[1]^Int
;IF _retCode # _ERR_NO_ERROR THEN ; there must be
; END
;ENDIF

; insert the original content
DB_INSERT _handle, _dbRowSave[1], _retCode
IF _retCode # _ERR_NO_ERROR THEN ; it should be successful
    END
ENDIF

; close the database table
DB_DISCONNECT _handle

```

The following example assumes, that there are defined the objects [SD.BlobStruct](#), [TB.BlobTable](#). Then corresponding DBManager process must be running and the database with corresponding [DSN](#) name must be correctly configured. Except the column ID and Name (defined in [SD.BlobStruct](#)), the database table *BlobTable* in the database must also contains the column **MyFile** of BLOB type (Binary Large Object). Sybase database this type calls *LONG BINARY*, Oracle it calls *BLOB* and MS SQL Server calls it *IMAGE*.

```
INT _handle ; handle for access to the database table
INT _retCode
TEXT _where
RECORD (SD.BlobStruct)_dbRow ; auxiliary variable

; open the datanase table for modification
DB_CONNECT TB.BlobTable, _DB_MODIFY, _handle, _retCode
IF _retCode # _ERR_NO_ERROR THEN ; cannot connect the database table
    END
ENDIF
```

```
; insert a row into the database table
_dbRow^ID := 99
```

```
_dbRow^Meno := "My inserted file"
DB_INSERT _handle, _dbRow, _retCode
IF _retCode # _ERR_NO_ERROR THEN ; it should be successful
    END
ENDIF

; insert the file as a BLOB object into the database table
DB_UPDATE_BLOB _handle, "MyFile", "C:\File99.txt", _retCode, 99
IF _retCode # _ERR_NO_ERROR THEN ; it should be successful
    END
ENDIF

; read another file (from the row with ID=11) from the table and save it to the disk C:\
DB_READ_BLOB _handle, "MyFile", "C:\File11_new.txt", _retCode, 11

; if the column ID of the structure definition is not defined
```

```
; as a key, it is neccessary to define the WHERE condition:
DB_READ_BLOB _handle, "MyFile", "C:\File11_new.txt", _retCode WHERE "ID=11"

; close the database table
DB_DISCONNECT _handle
```

```
; -- work with no need to open the database table (DBS_ functions)

; read another file without opening the database table
DBS_READ_BLOB TB.BlobTable, "MyFile", "C:\File22_new.txt", _retCode, 22

; save it to the database table
DBS_UPDATE_BLOB TB.BlobTable, "MyFile", "C:\File22_new.txt", _retCode, 33
```



Related pages:

[Script actions](#)