



How to use CIMON-SCADA ODBC?

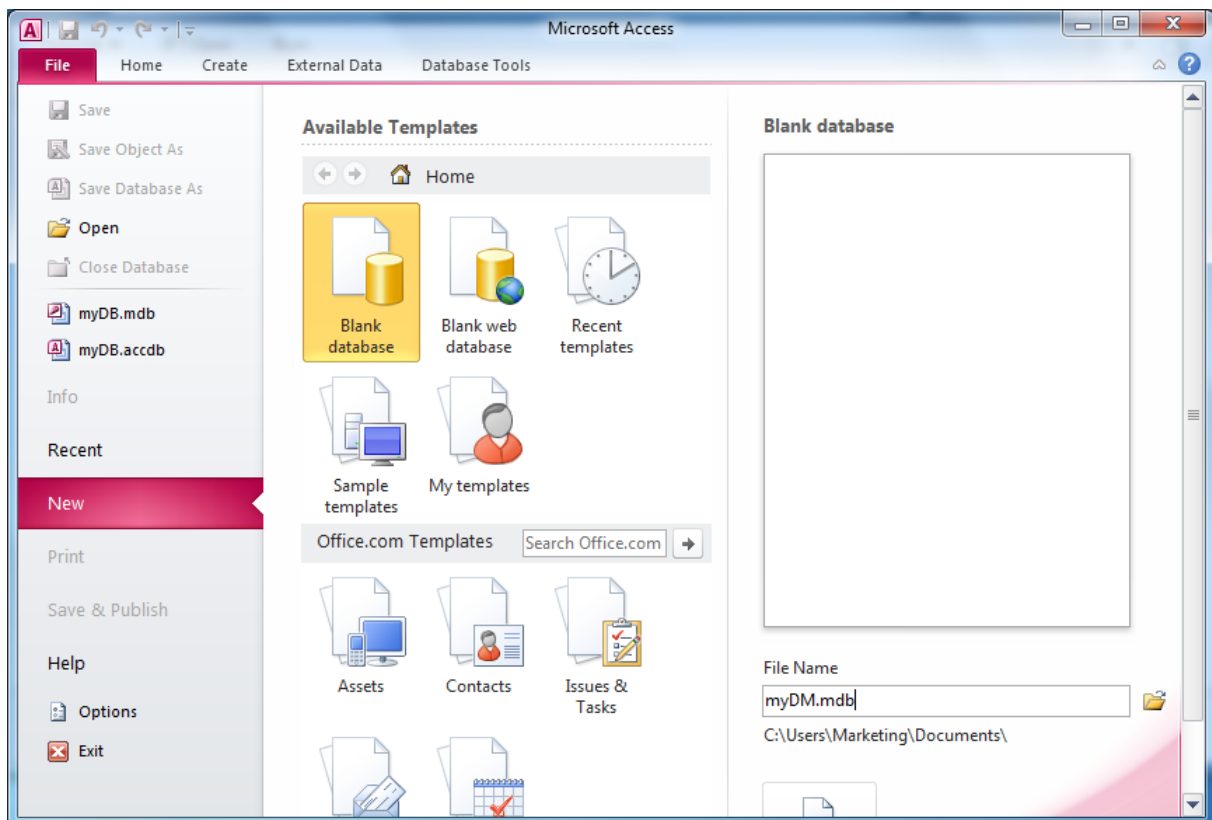


Insert, Search, Update and Delete are available with CIMON-SCADA ODBC function through Microsoft Access.

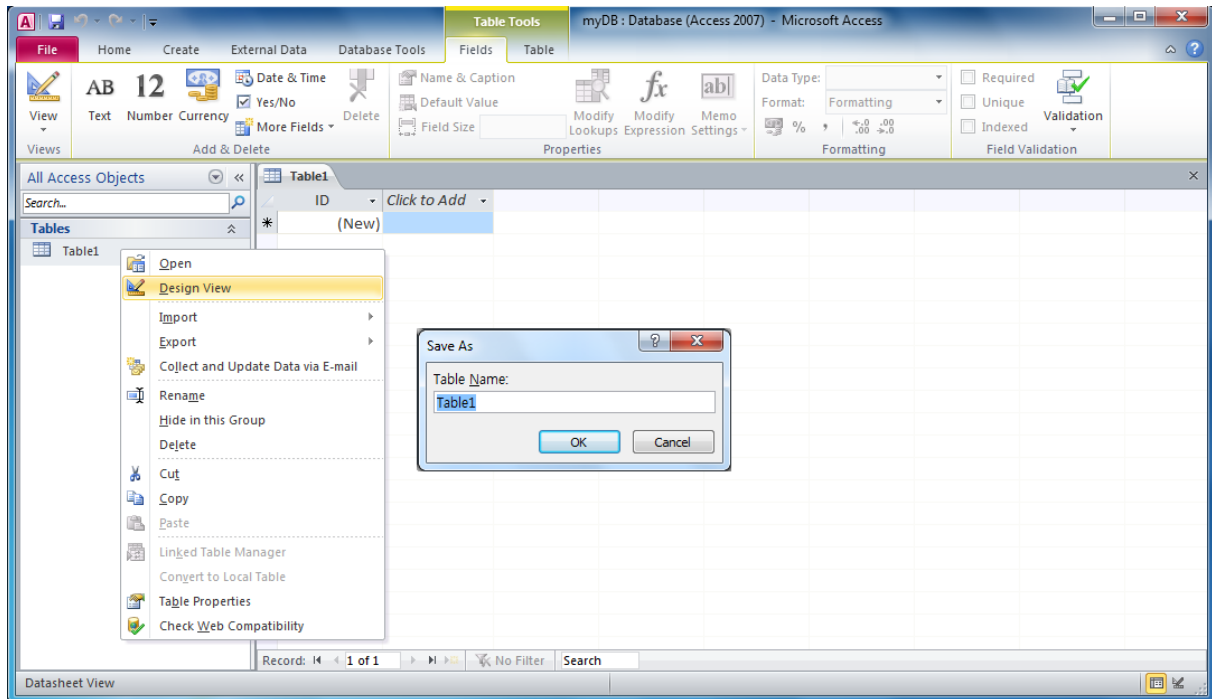
### [Instruction]

In order to use ODBC function, click [Microsoft Office] → [Microsoft Access 2010] as following.

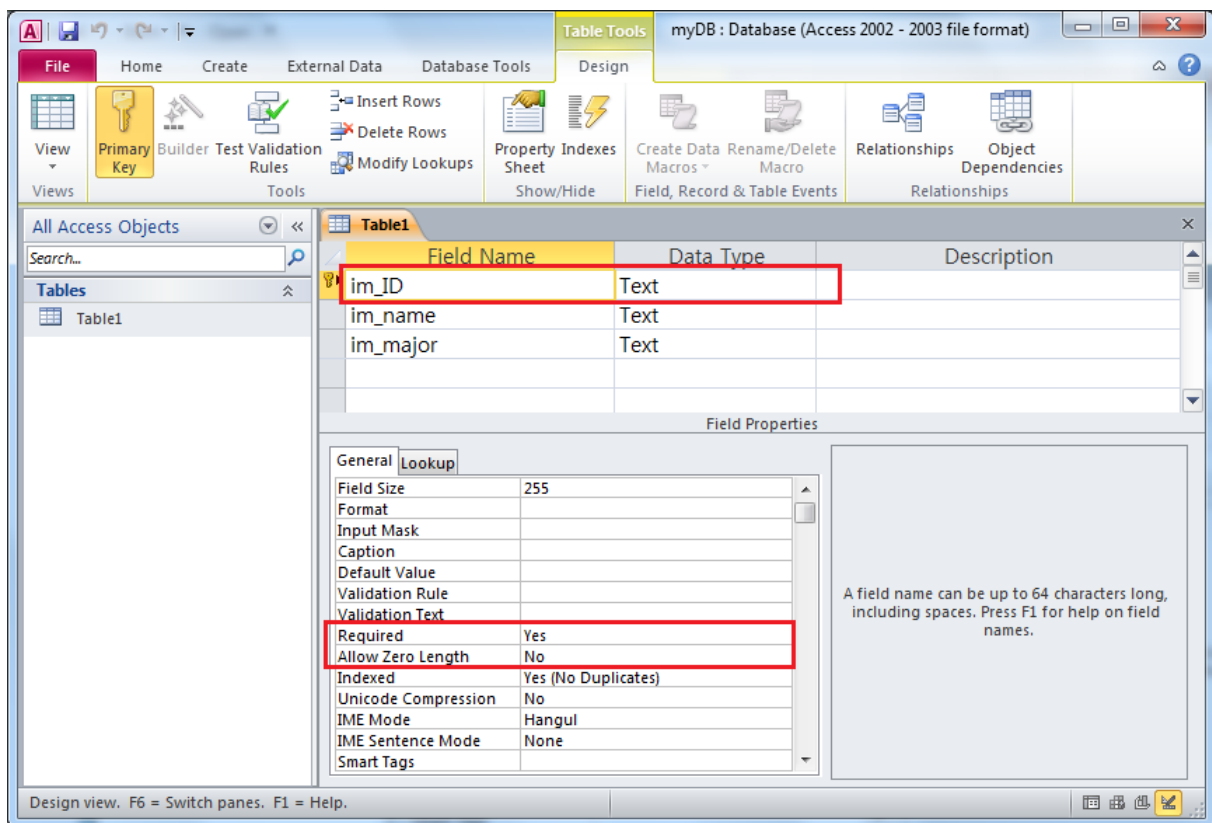
- Write 'myDM.mdb' at File Name



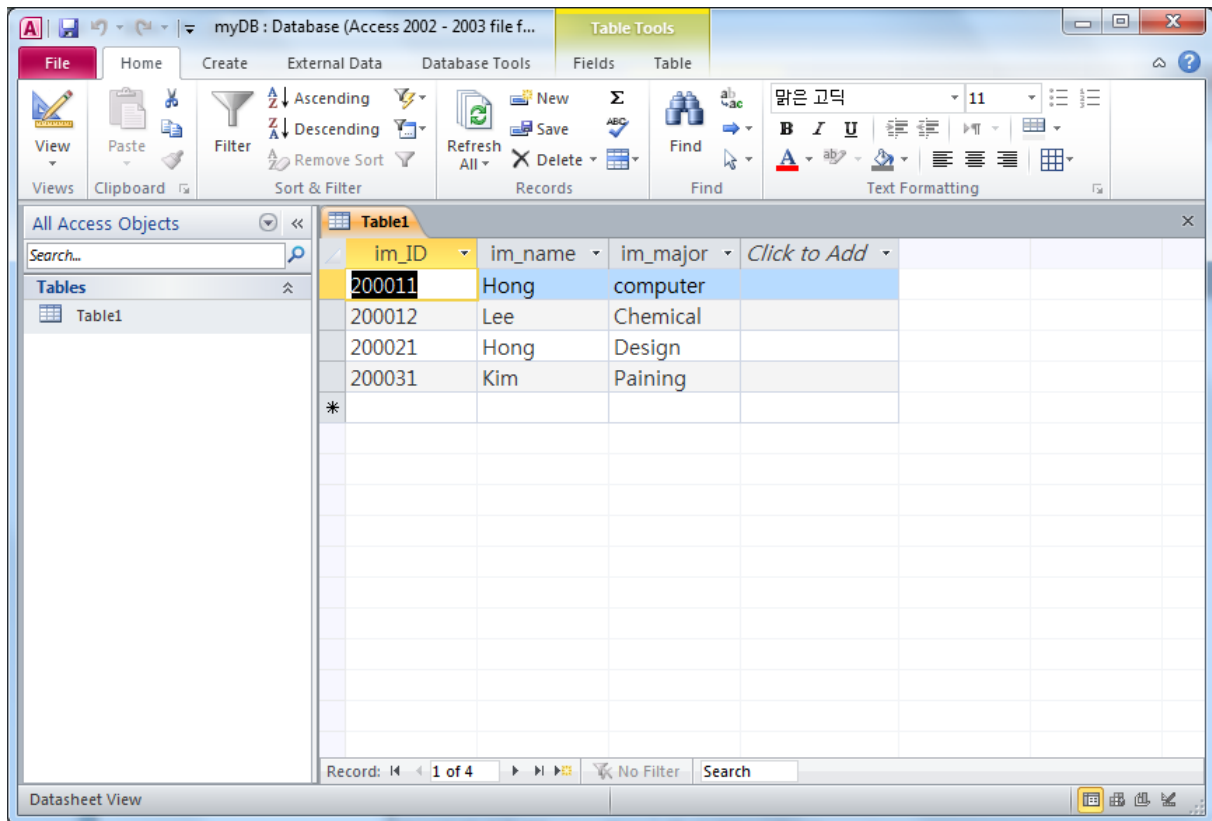
- Click [Table1] → [Design View] and write 'Table1' at Table Name.



- Then write the Field Name and Data Type as below picture.
- Field Name : im\_ID, im\_name, im\_major
- Data Type : Text
- Change the Field Properties only with im\_ID as following:  
Required : No → Yes  
Allow Zero Length : Yes → No
- Field Properties of im\_name and im\_major are default (You do not need to change them)



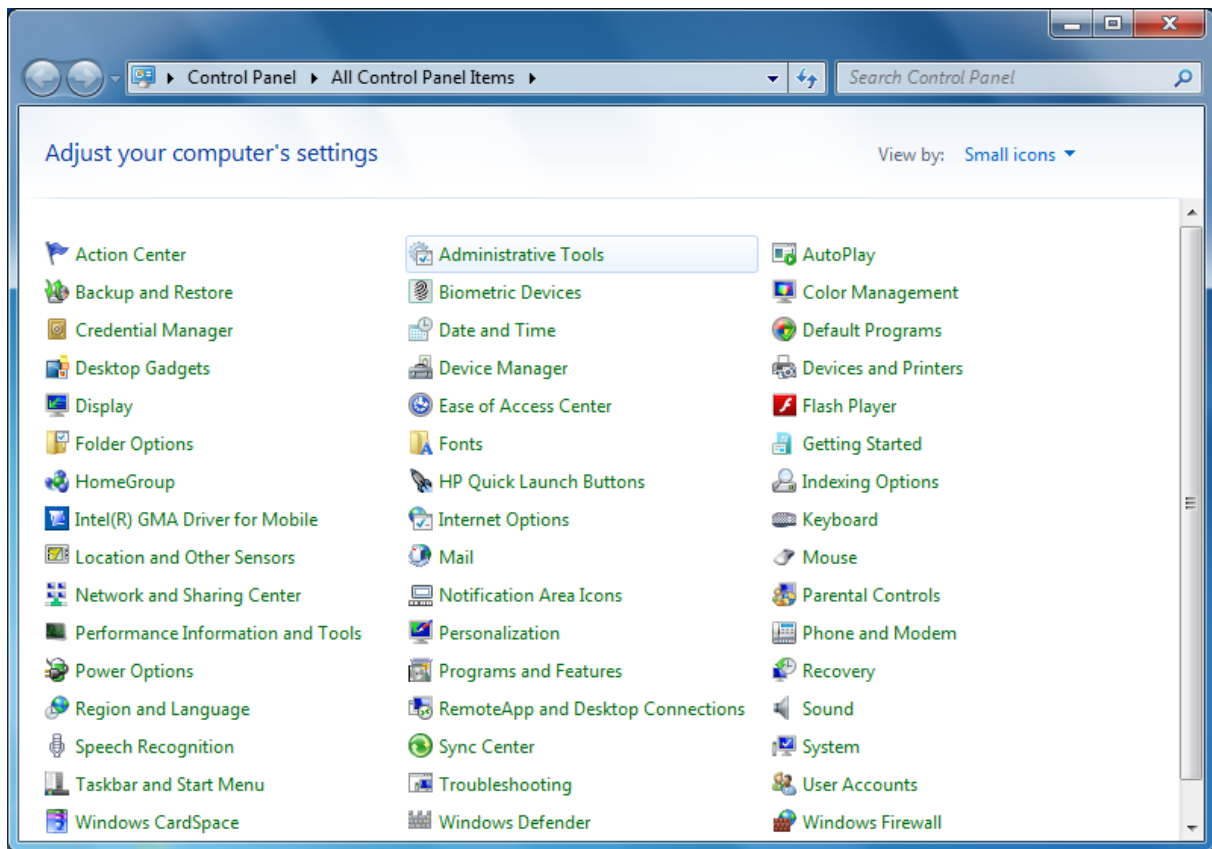
- Double click 'Table1' and then write the ID, name and major as below picture.



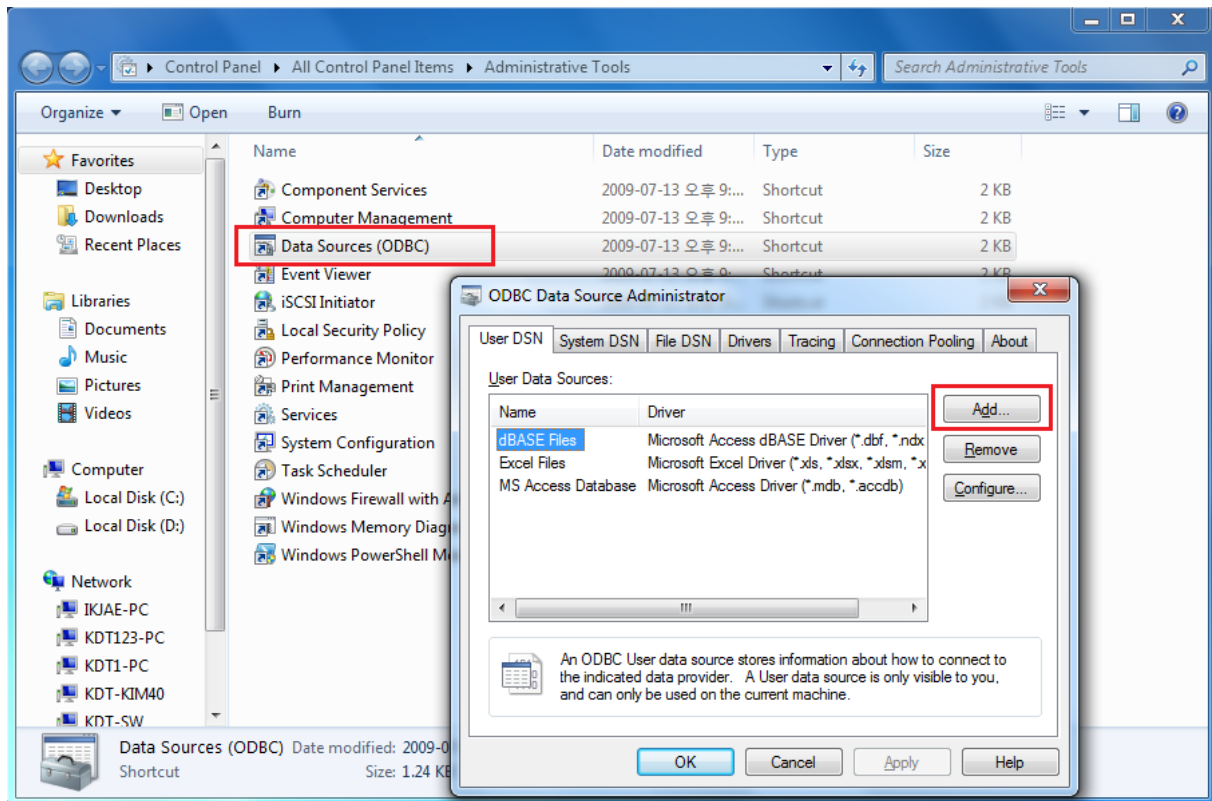
- Click 'Save' and close Access 2010

Since you already made Database with Access 2010, it is time to set up ODBC at Windows.

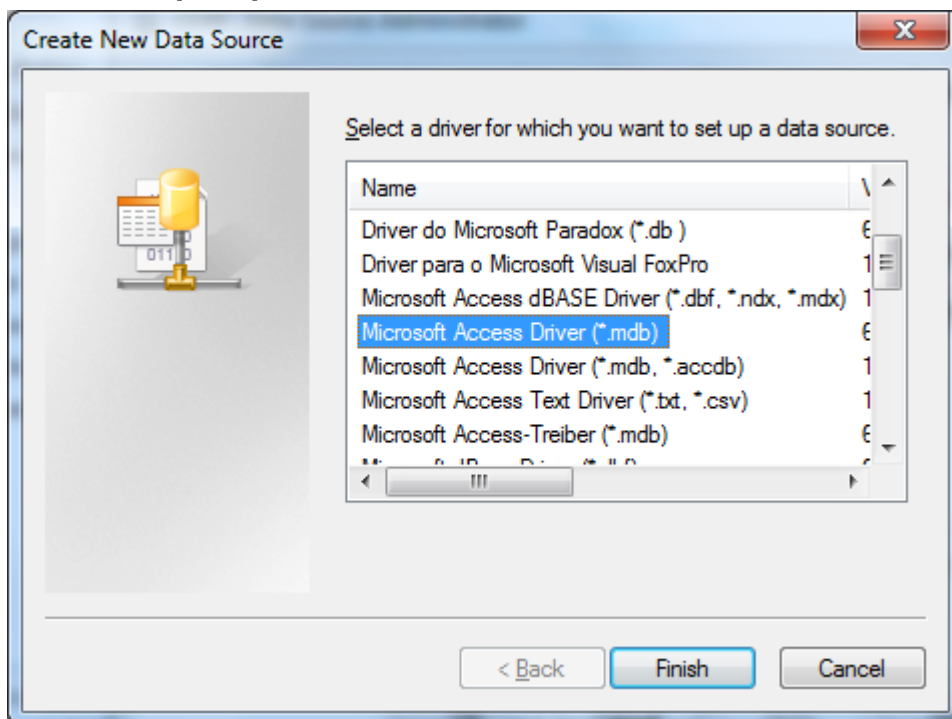
- Click [Start] → [Control Panel] and then click [Administrative Tools]



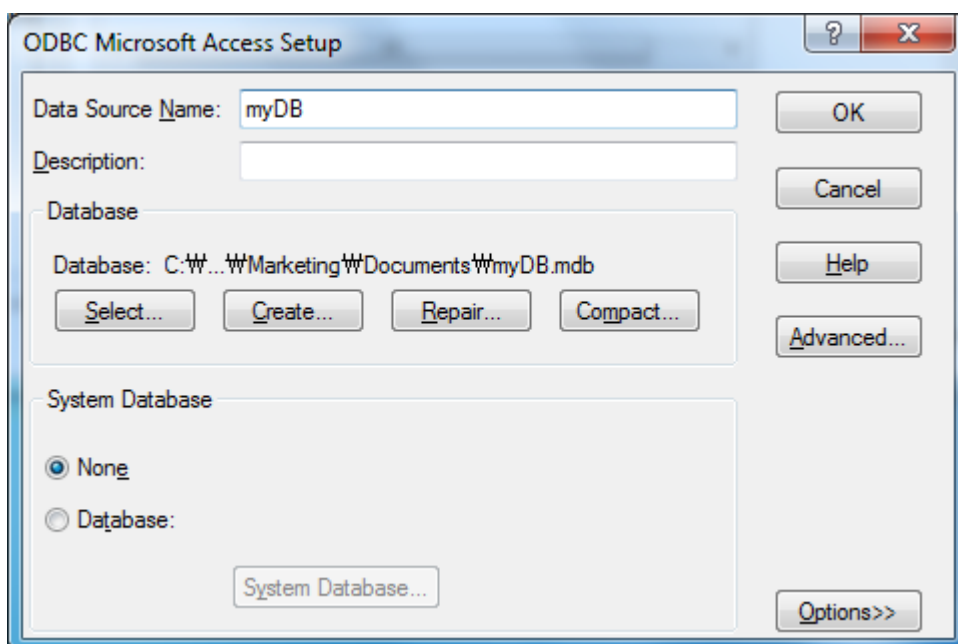
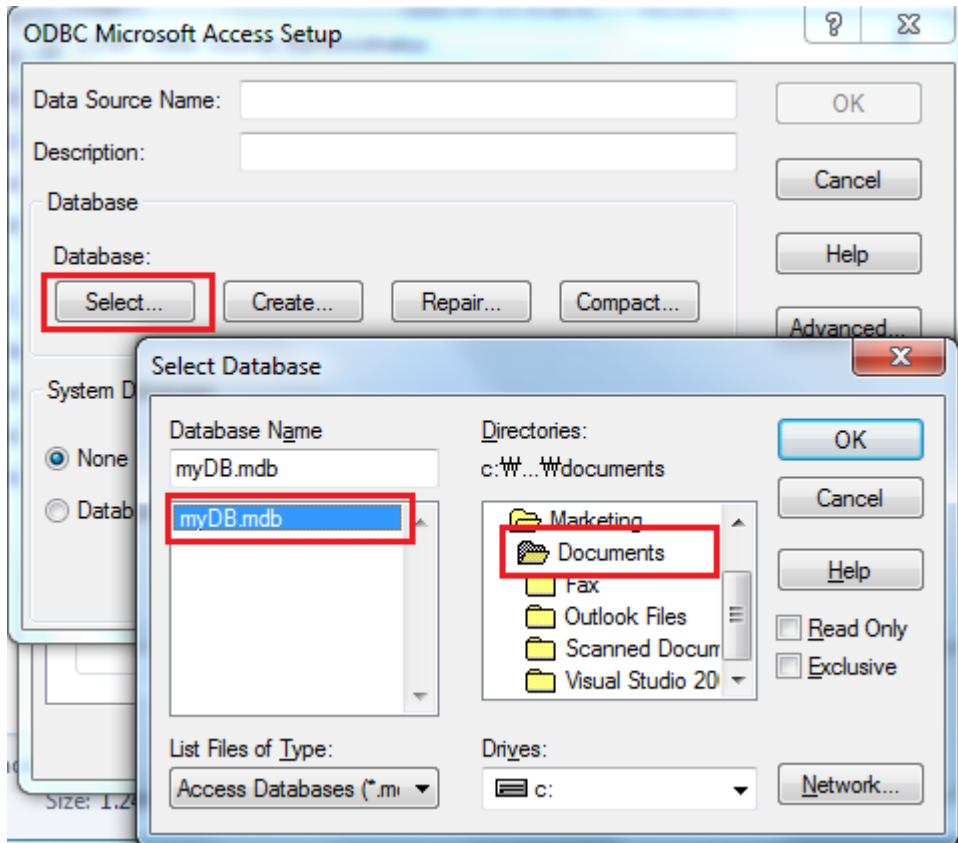
- Click [Data Sources (ODBC)] and then click [Add] to register Database you made.



- Since Database is made by Access 2010, select Microsoft Access Driver(\*.mdb) and then click [Finish]

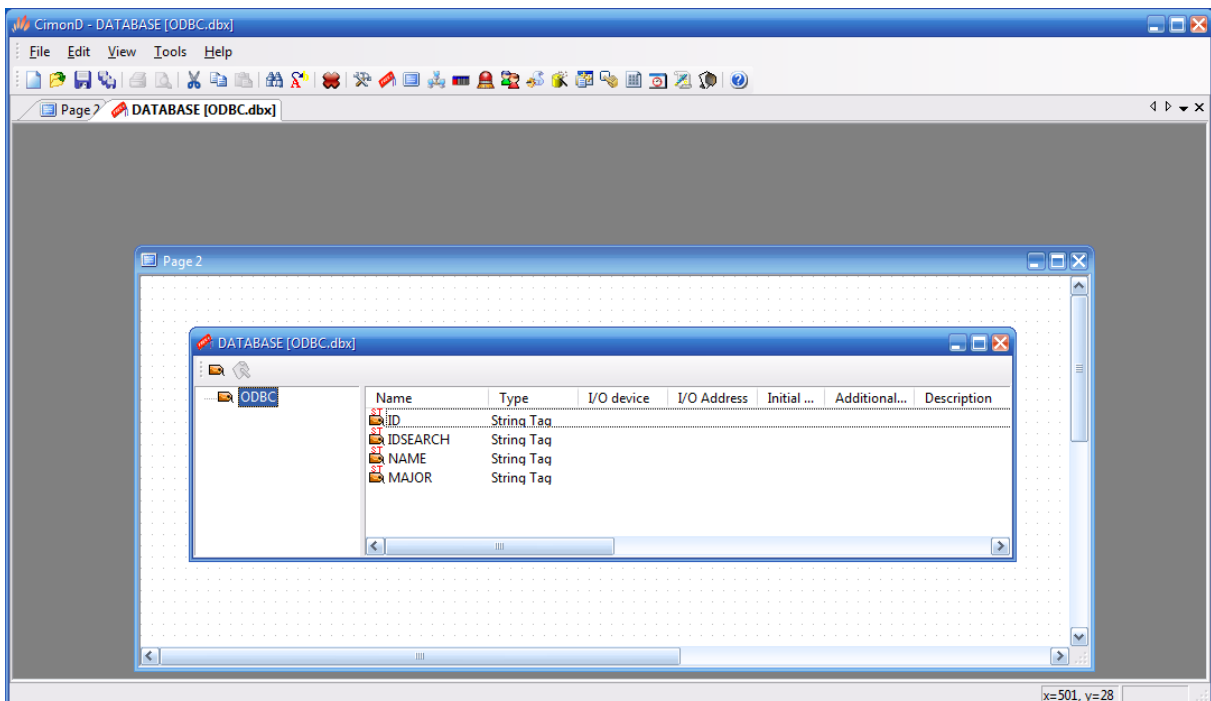
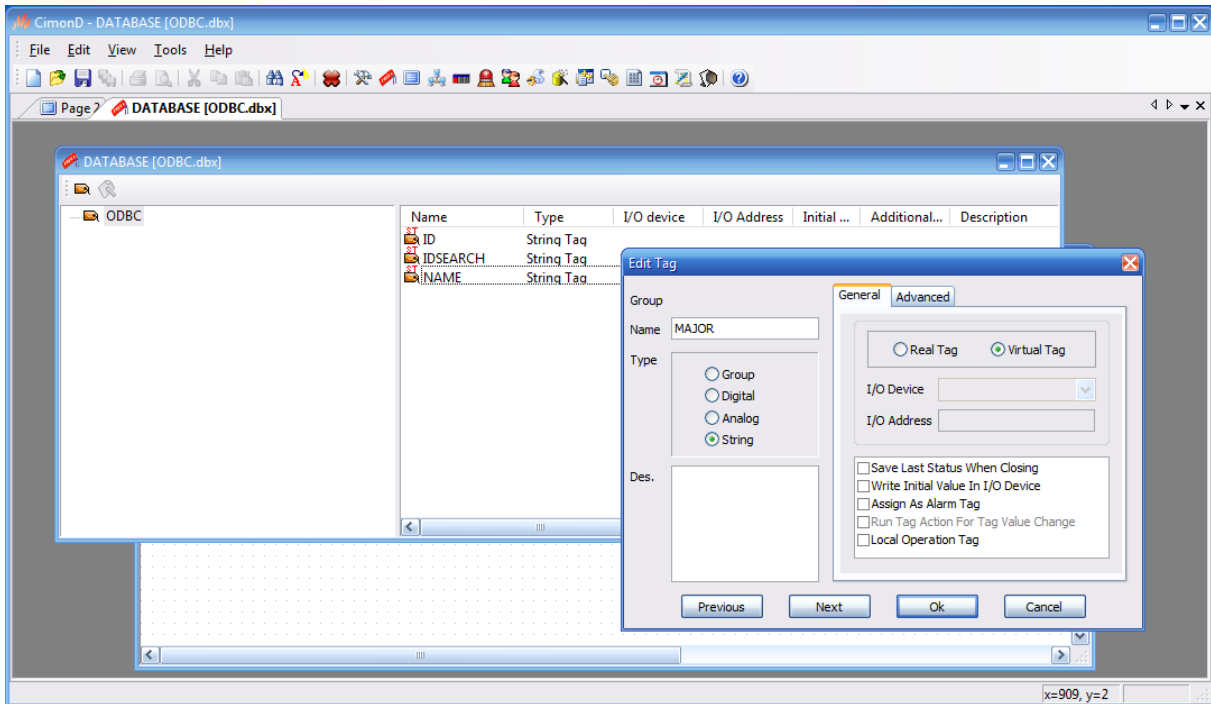


- Click [Select] and find out the Directories you saved myDB.mdb.
- If you see the first picture, there is Directories  
C: \ Users \ Marketing \ Documents \
- Write 'myDB' at [Data Source Name] and then click 'OK'



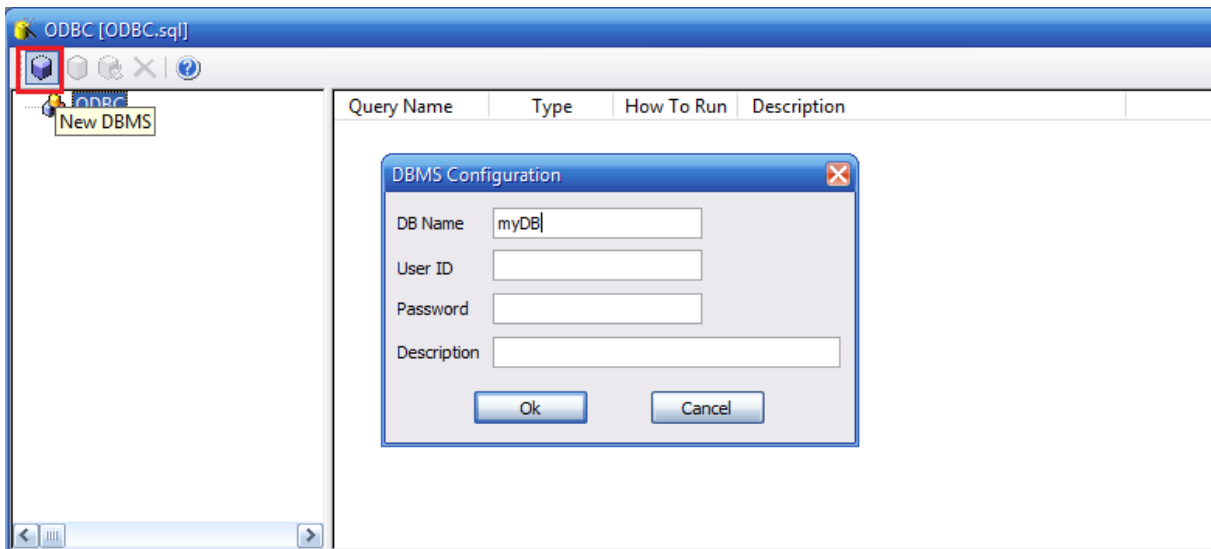
Open CimonD and register tags and set up ODBC

- Register 4tags as below  
Name : ID, IDSEARCH, NAME and MAJOR  
Type : String

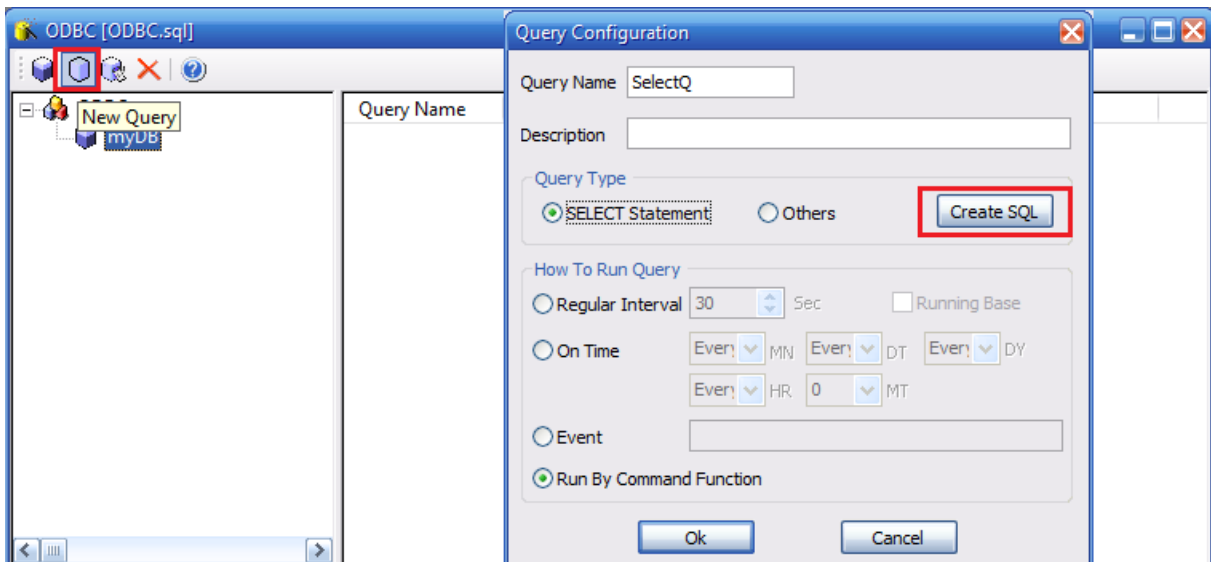




- Click [Tools] → [ODBC]
- Click [New DBMS] icon and write 'myDB' at [DB Name] and click 'OK'



- Click [New Query] icon and set up as below:  
**Query Name : SelectQ**  
 Query Type : SELECT Statement  
 How to Run Query : Run By Command Function
- Click "Create SQL"



- Click [New Field] and register 3 Field Name and following:

Field Name: im\_ID

Tag Name: ID

Data Type: VARCHAR

Field Name: im\_name

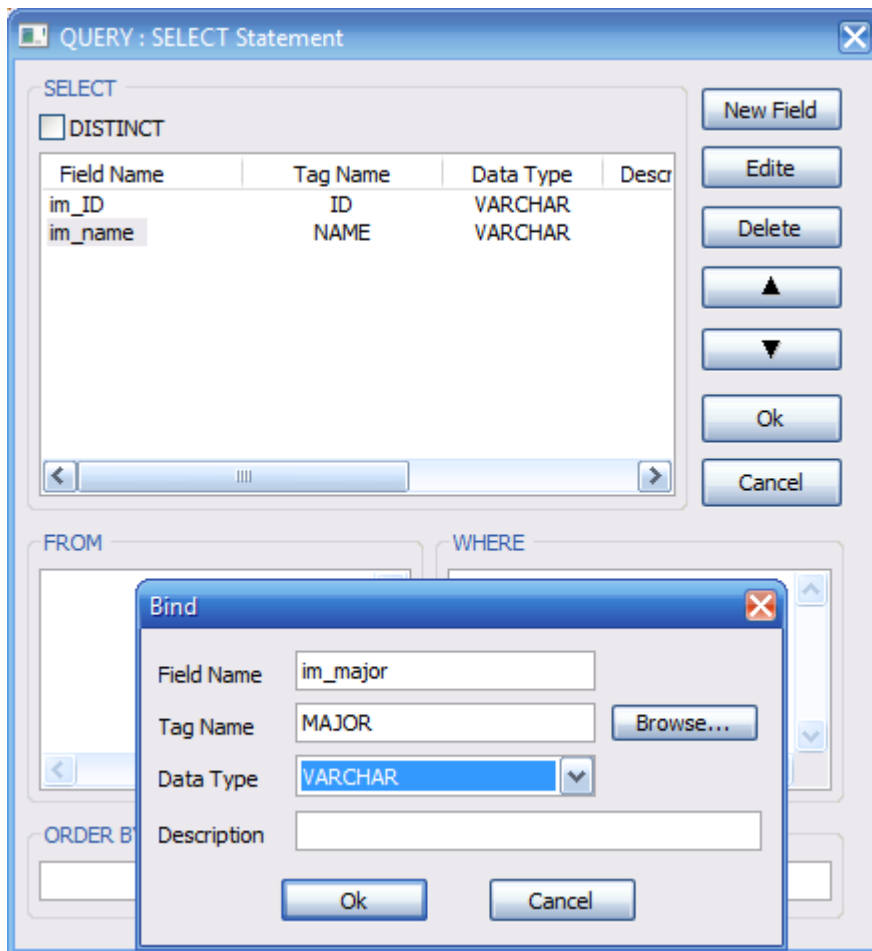
Tag Name: NAME

Data Type: VARCHAR

Field Name: im\_major

Tag Name: MAJOR

Data Type: VARCHAR



- Write "Table1" at [FROM] and "im\_ID='[IDSEARCH]'" at [WHERE]

**QUERY : SELECT Statement**

**SELECT**

☐ DISTINCT

Field Name	Tag Name	Data Type	Descr
im_ID	ID	VARCHAR	
im_name	NAME	VARCHAR	
im_major	MAJOR	VARCHAR	

**FROM**

Table1

**WHERE**

im\_ID='[IDSEARCH]'

**ORDER BY**

Buttons: New Field, Edit, Delete, Up, Down, Ok, Cancel

- If you click "OK", you can see the "SelectQ" at [Query Name]

**CimonD - [ODBC [ODBC.sql]]**

File Edit View Tool Help

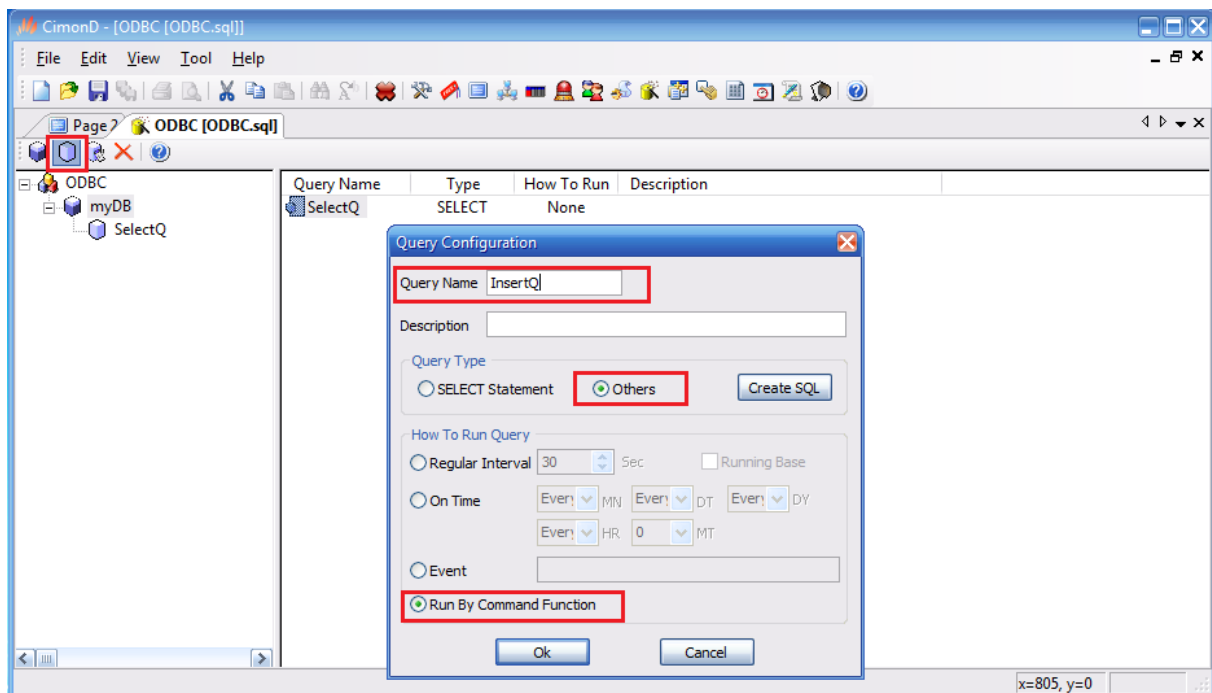
Page 7 ODBC [ODBC.sql]

Query Name	Type	How To Run	Description
SelectQ	SELECT	None	

Tree View: ODBC > myDB > SelectQ

Status: x=805, y=0

- Click [New Query] icon and set up as below:  
Query Name : **InsertQ**  
Query Type : Others  
How to Run Query : Run By Command Function
- Click "Create SQL"



- Click [New Field] and register 3 Field Name and following:

Tag Name: ID

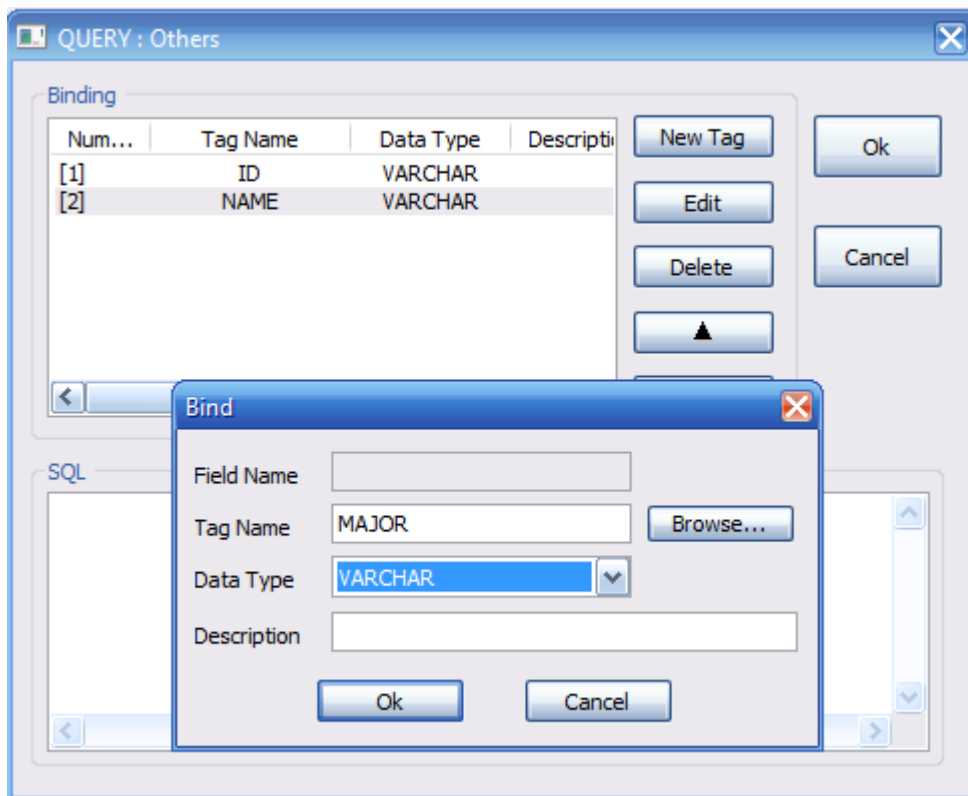
Data Type: VARCHAR

Tag Name: NAME

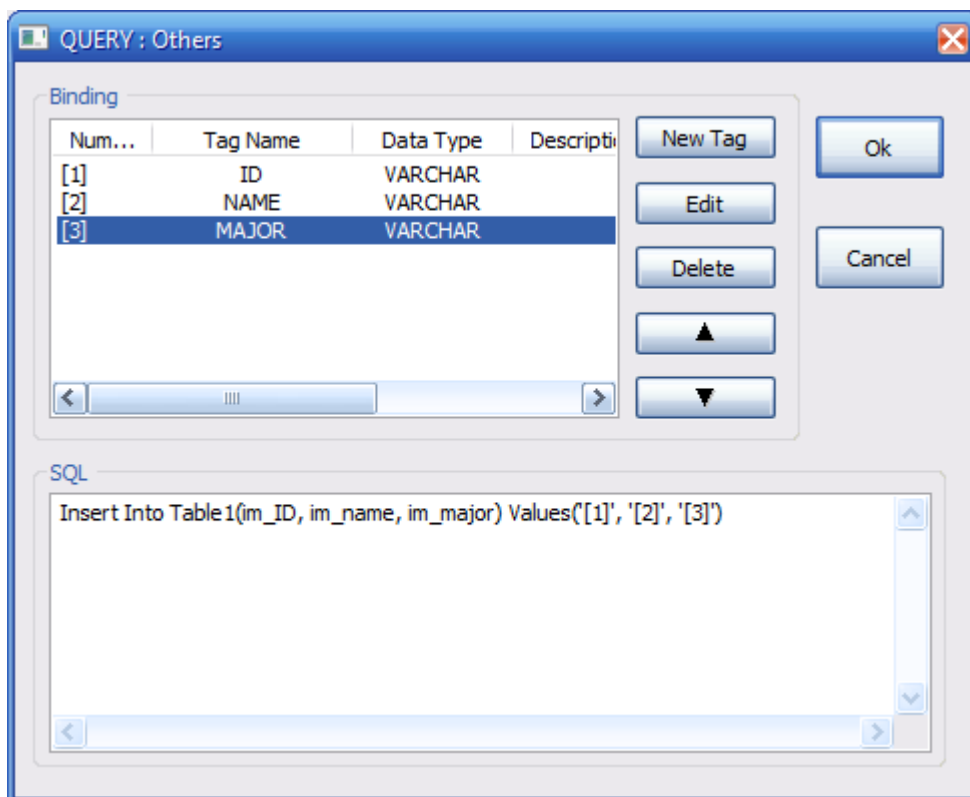
Data Type: VARCHAR

Tag Name: MAJOR

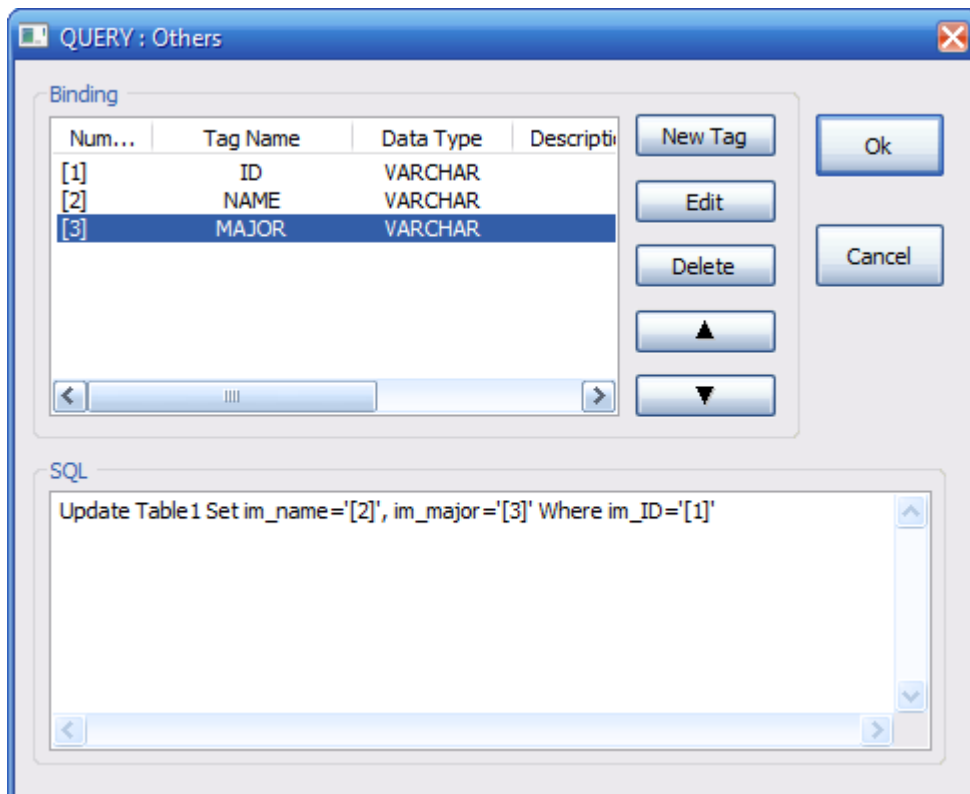
Data Type: VARCHAR



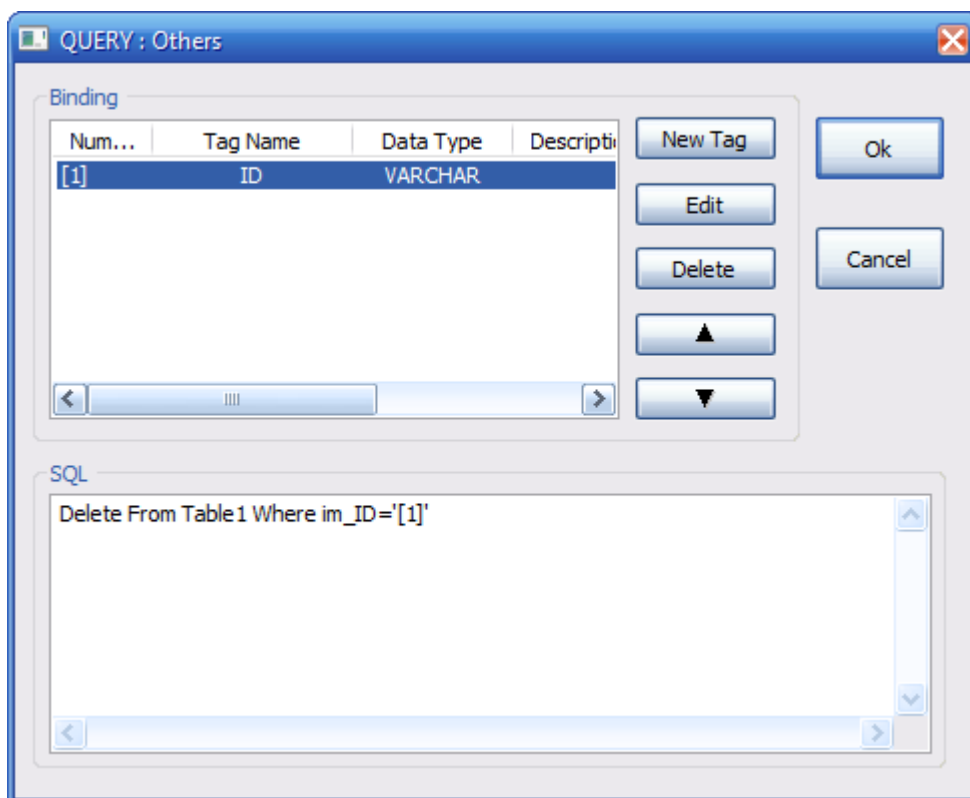
- Write "Insert Into Table1(im\_ID, im\_name, im\_major) Values('[1]', '[2]', '[3]')" and then click "OK"



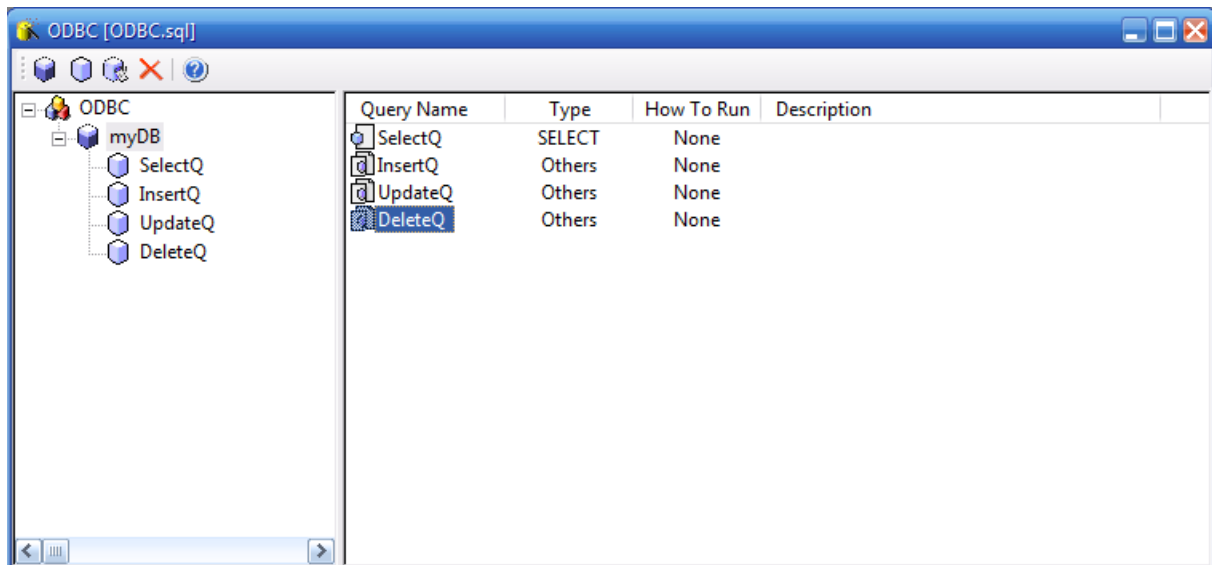
- Click [New Query] icon and set up as below:  
Query Name : **UpdateQ**  
Query Type : Others  
How to Run Query : Run By Command Function
- Click "Create SQL"
- Click [New Field] and register 3 Field Name and following:  
Tag Name: ID  
Data Type: VARCHAR  
Tag Name: NAME  
Data Type: VARCHAR  
Tag Name: MAJOR  
Data Type: VARCHAR
- Write "Update Table1 Set im\_name='[2]', im\_major='[3]', Where im\_ID='[1]'" at SQL and then click "OK"



- Click [New Query] icon and set up as below:  
Query Name : **DeleteQ**  
Query Type : Others  
How to Run Query : Run By Command Function
- Click "Create SQL"
- Click [New Field] and register a Field Name and following:  
Tag Name: ID  
Data Type: VARCHAR
- Write "Delete From Table1 Where im\_ID='[1]'" at SQL and then click "OK"







After ODBC setting, create Script to run Select, Insert, Update and Delete function.

- Click [Tools] → [Script] and make 4 scripts as following:

**Select Script;**

```
Sub SelectS()
  CSqlOpen("SelectQ")
  CSqlClose("SelectQ")
End Sub
```

**Insert Script;**

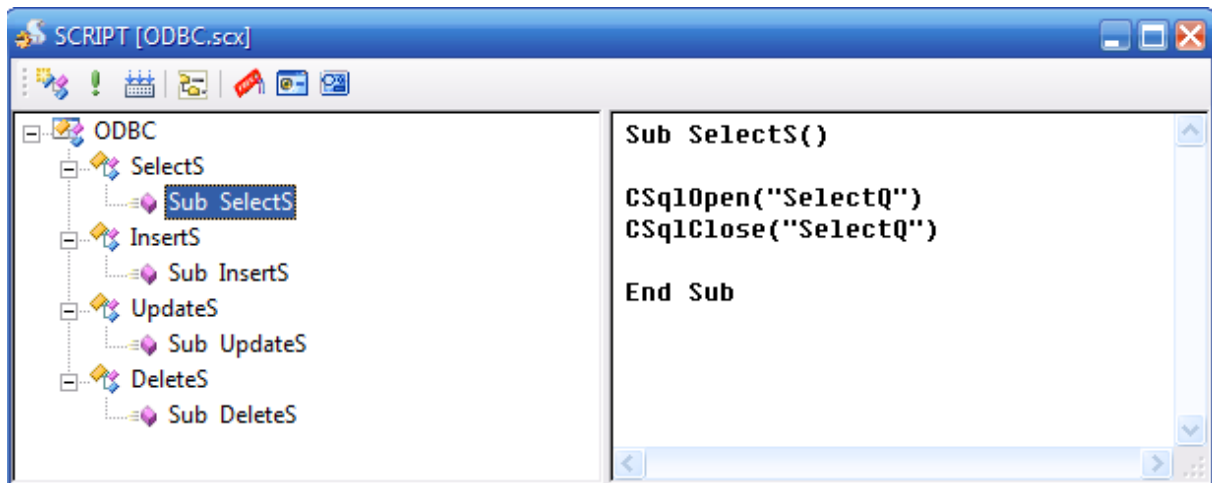
```
Sub InsertS()
  CSqlRun "InsertQ"
End Sub
```

**Update Script;**

```
Sub UpdateS()
  CSqlRun "UpdateQ"
End Sub
```

**Delete Script;**

```
Sub DeleteS()
  CSqlRun "DeleteQ"
End Sub
```

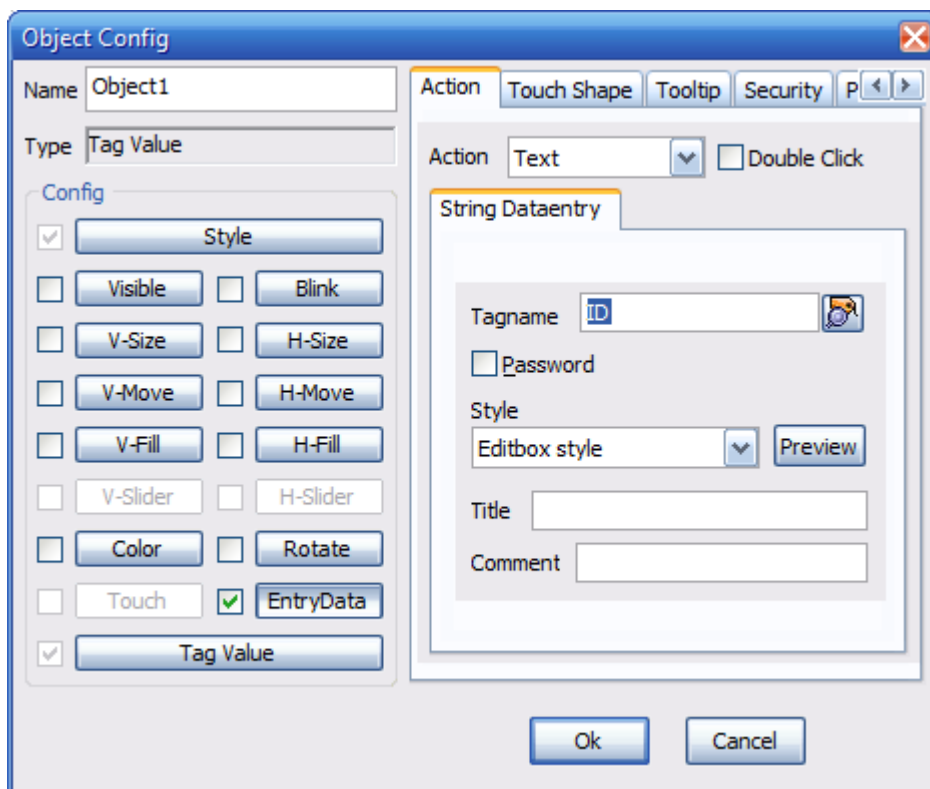


In order to test ODBC, make a page as below:

- Make 3 dynamic tags : ID, name and major (red box)

Config: EntryData

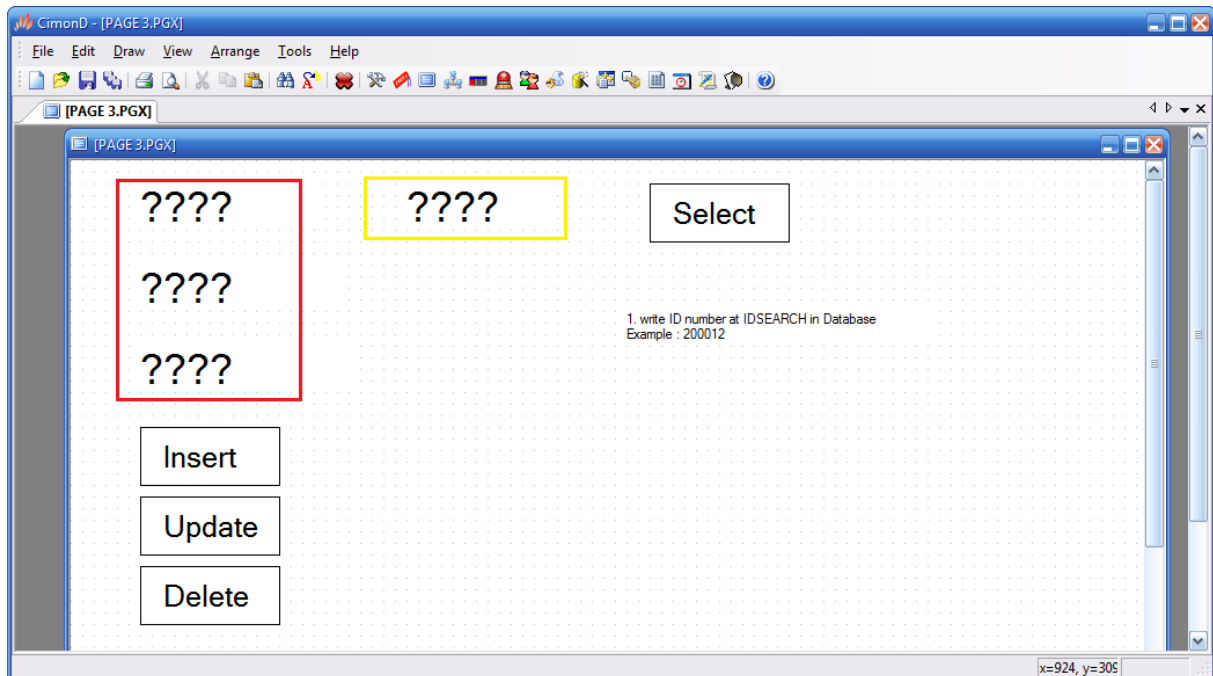
Action: Text



- Make 1 dynamic tag : IDSEARCH (yellow box)

Config: EntryData

Action: Text



- Make 4 texts and rectangle objects : Insert, Update, Delete and Select

Config: Touch

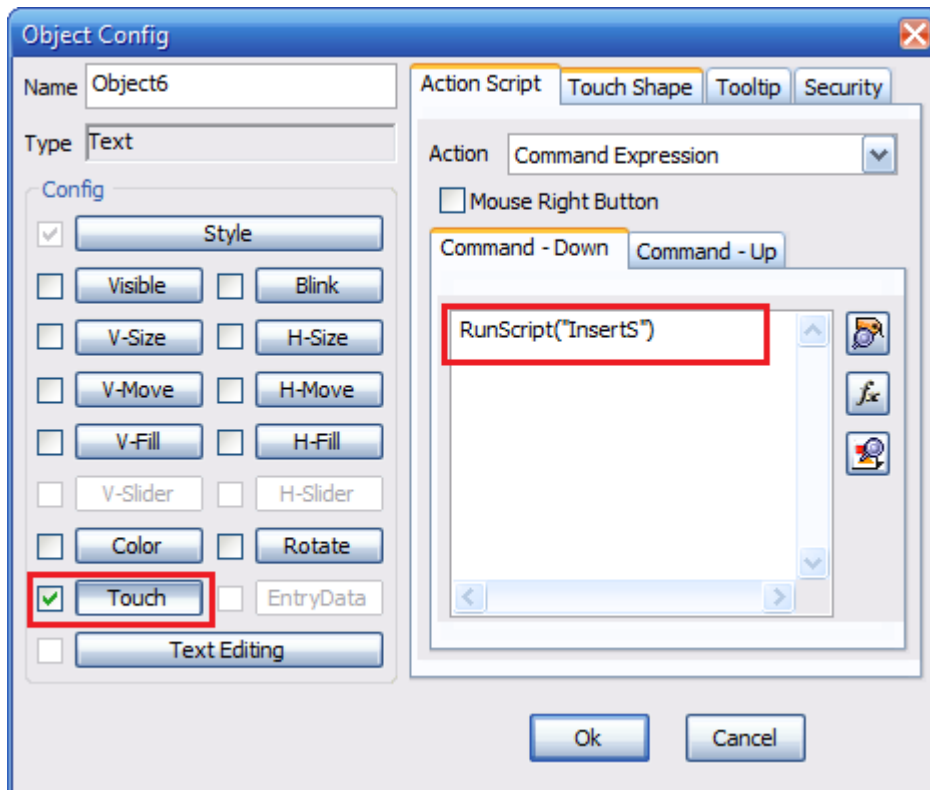
Action: Command Expression

Command Down: RunScript("InsertS")

RunScript("UpdateS")

RunScript("DeleteS")

RunScript("SelectS")



- Save the page and run CimonX with DS license key lock.
- If you double click dynamic tag and write ID and click "Select", you can see the its database information.

200011

200012

Select

Hong

Computer

1. write ID number at IDSEARCH in Database  
Example : 200012

Insert

Update

Delete

Name	Description	Value	Status	Alarm
ID		200011		
IDSEARCH		200012		
NAME		Hong		
MAJOR		Computer		

Change Tag Value

Name: IDSEARCH

Desc.:

Type: Virtual Tag

Device:

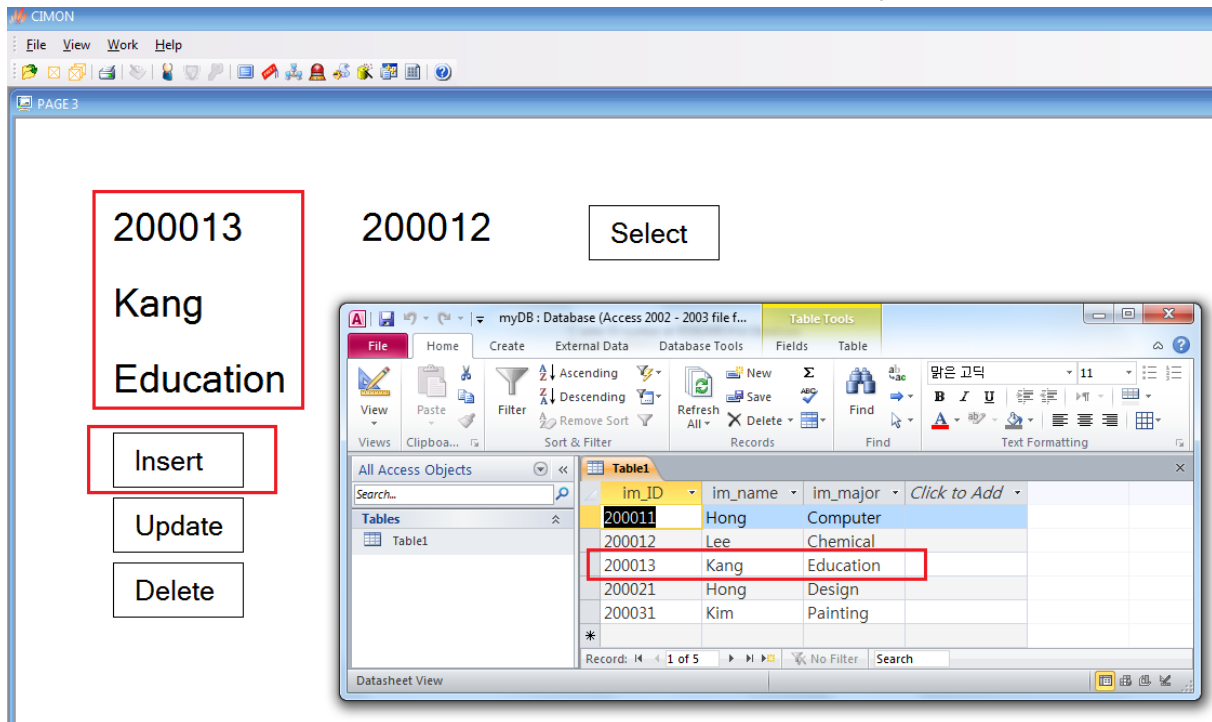
Address:

Current Value: 200012

New Value: 200012

Apply Close

- If you double click dynamic tag and write ID, name and major and then click "Insert", you can see the new database is inserted in Access 2010 as below picture.



You can test other functions like Update and Delete with the same method.