Q: How to use SQL CE client to connect to SQL server?

Applied to:

Platform	*OS version*	*XPAC utility version*
XPAC series	*All versions (WinCE6)*	**Note1**

Note1: *It doesn't matter with the utility.*

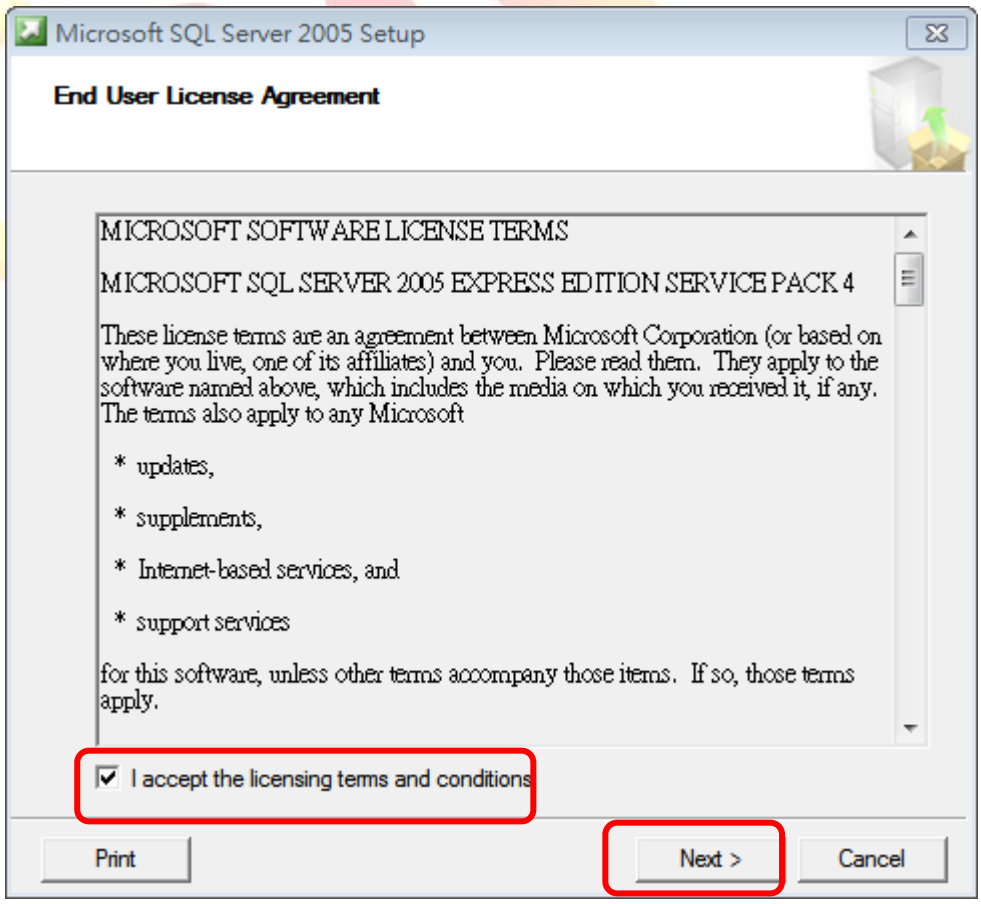
We take 2 file "SQL Server 2005 Express Edition" and SQL Server Management Studio Express for example, you also use other edition.

1. SQL Server 2005 Express Edition Service Pack 4 (SQLEXPR.EXE)
   (http://www.microsoft.com/downloads/en/details.aspx?displaylang=en&FamilyID=26435597-b28e-4568-9d16-017bdf47abdc)
2. SQL Server Management Studio Express Service Pack 4 (SQLServer2005_SSMSEE.msi)
   (http://www.microsoft.com/downloads/en/details.aspx?displaylang=en&FamilyID=76ea83da-4797-4f11-a834-456ee9dc3764)

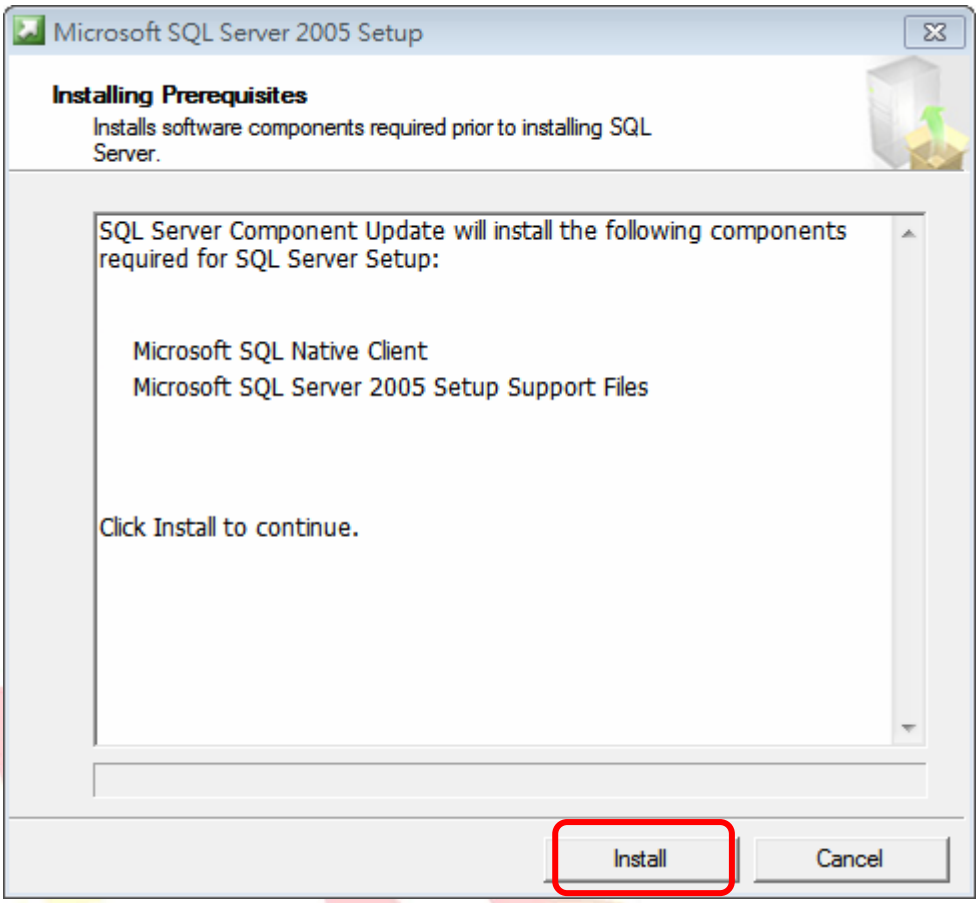
[Inatall Software]

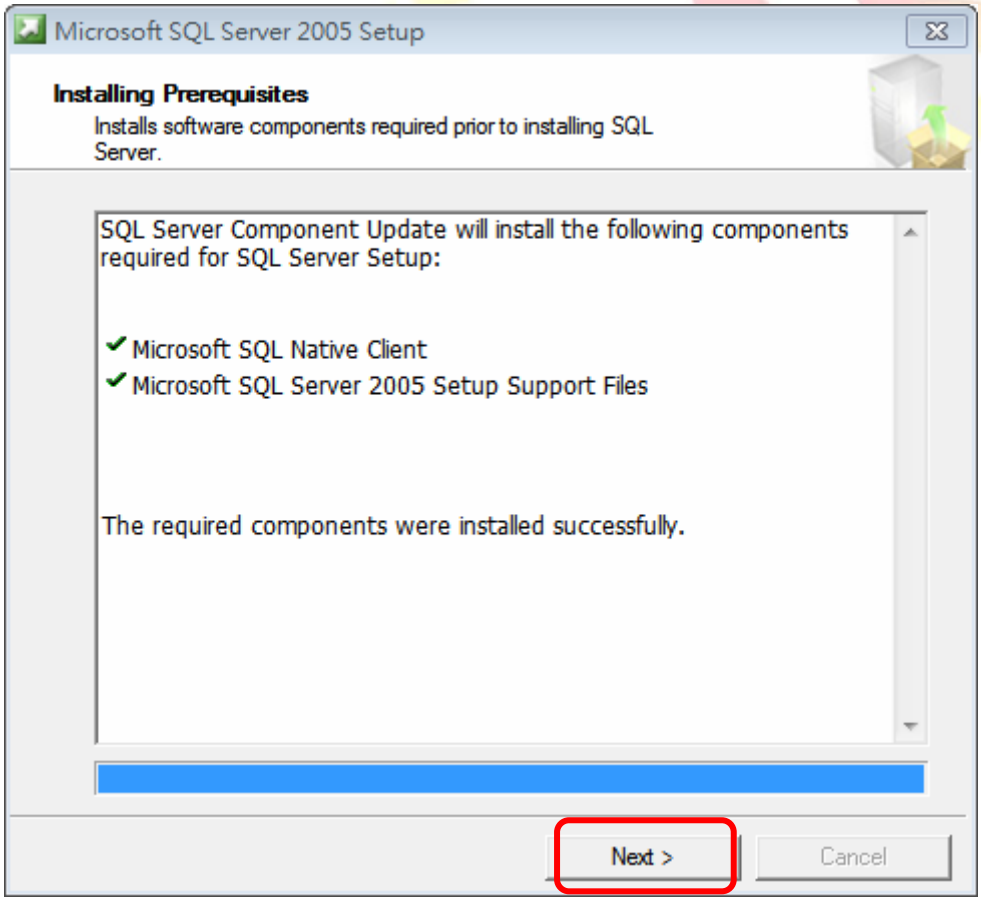
STEP 1: Install SQL Server 2005 Express Edition

There are two places need to be adjusted.

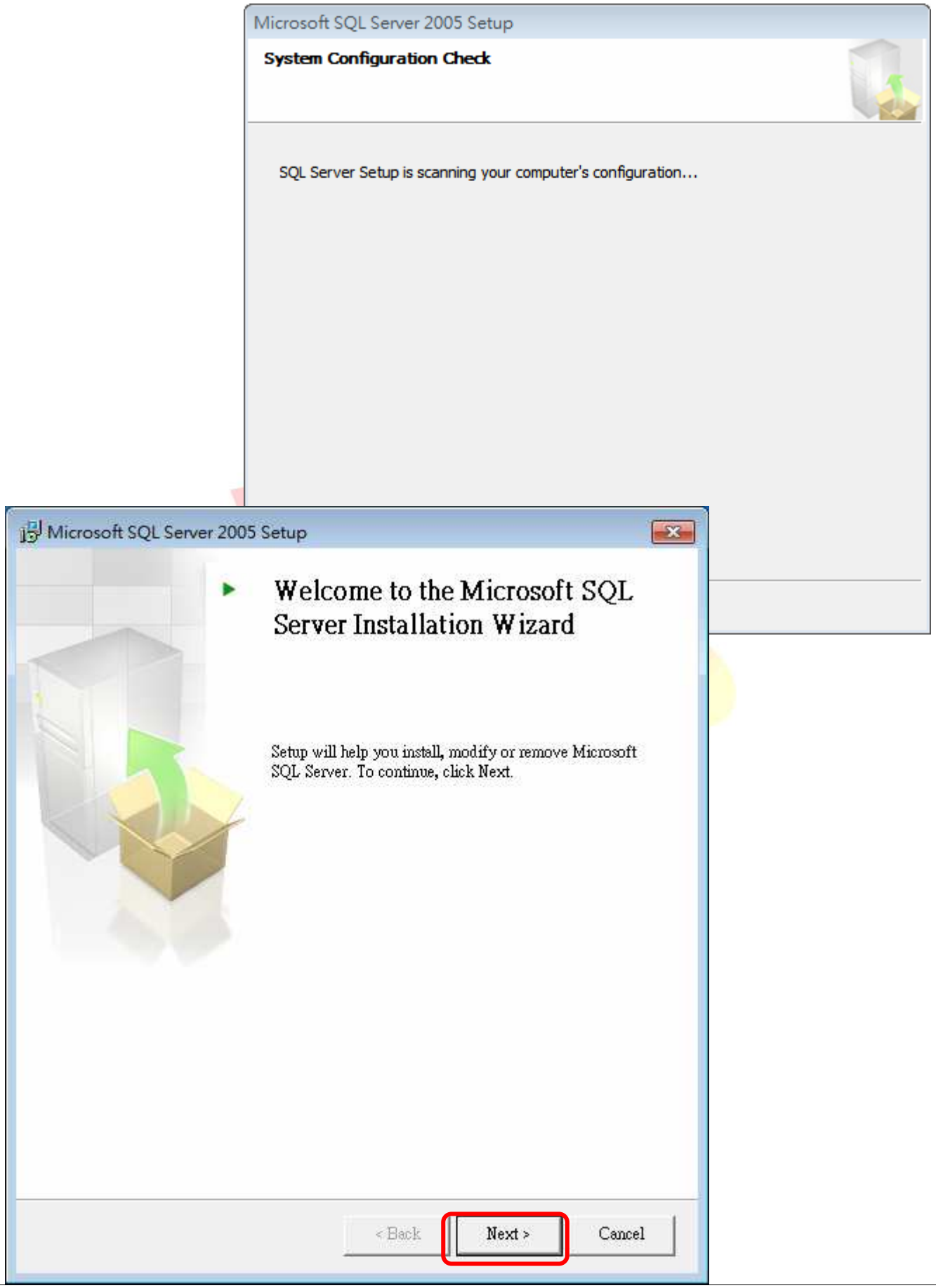


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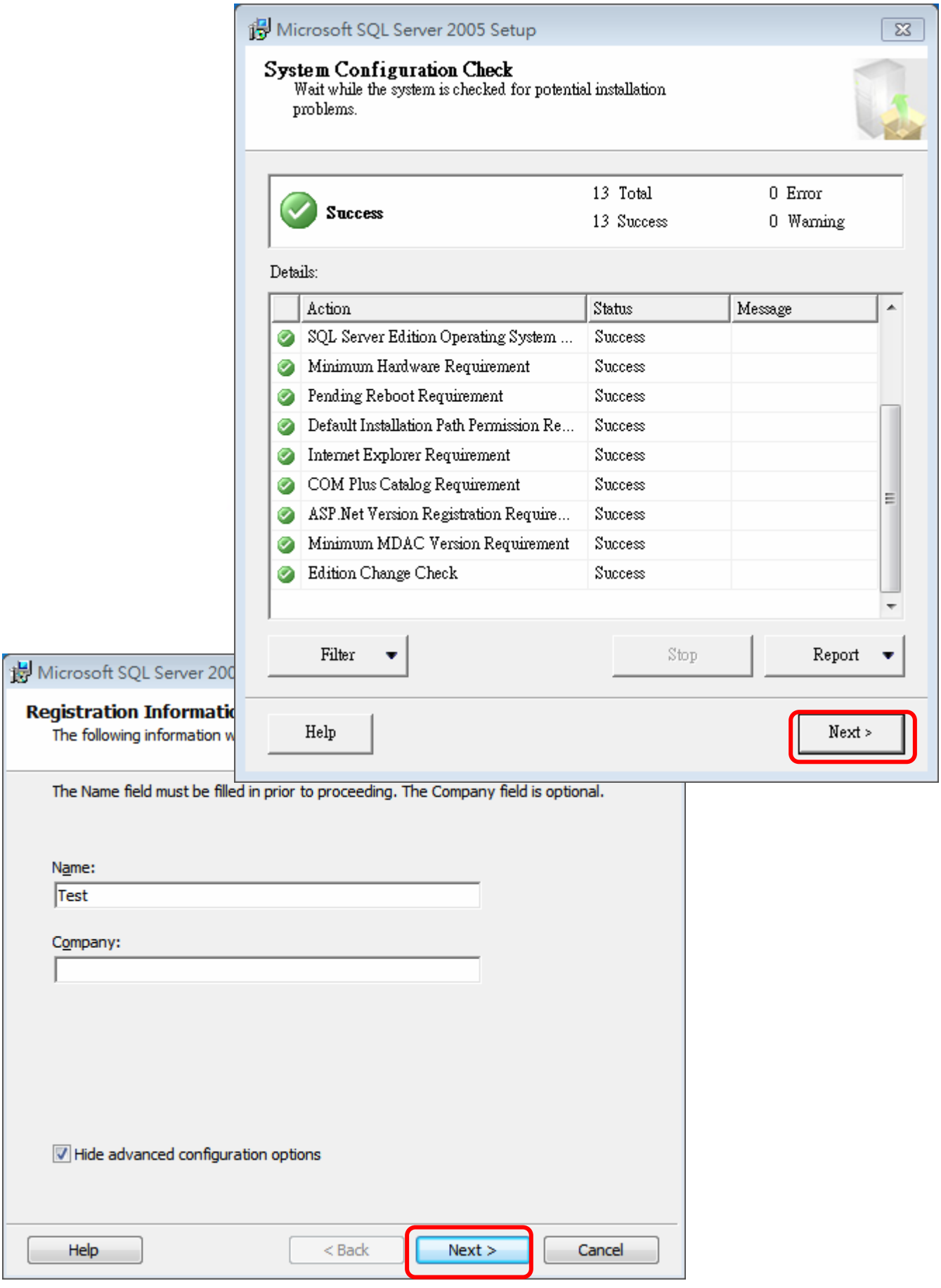




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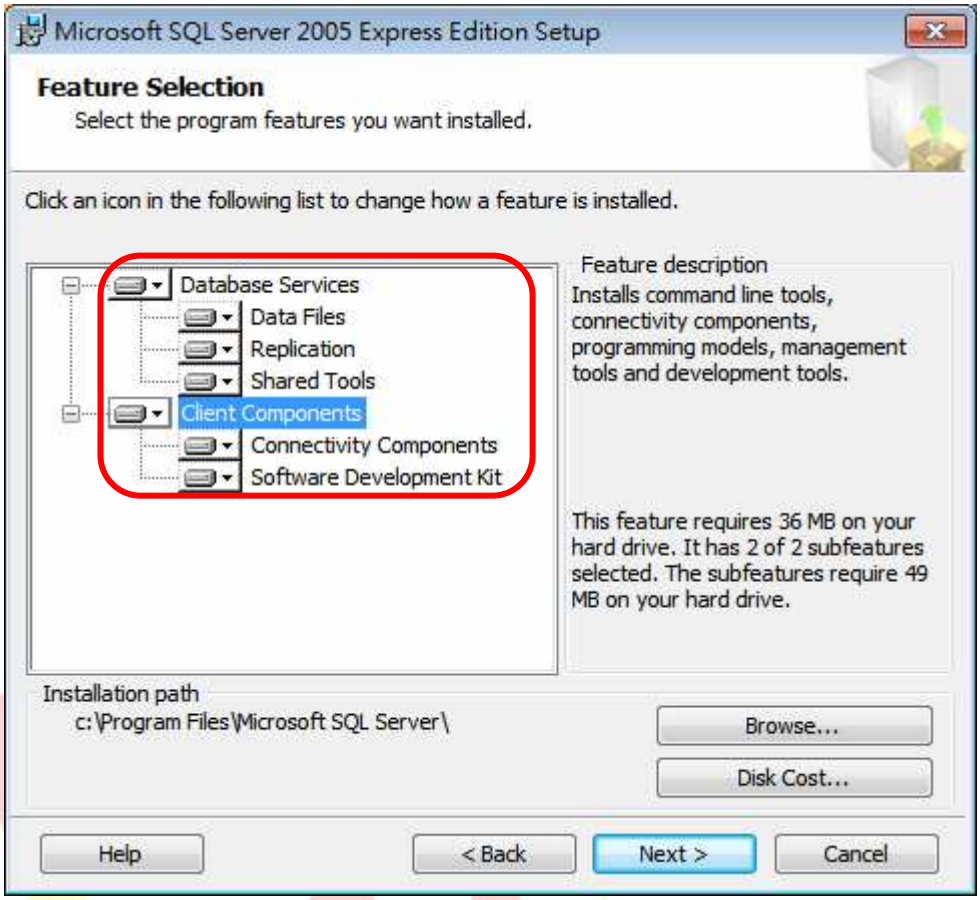


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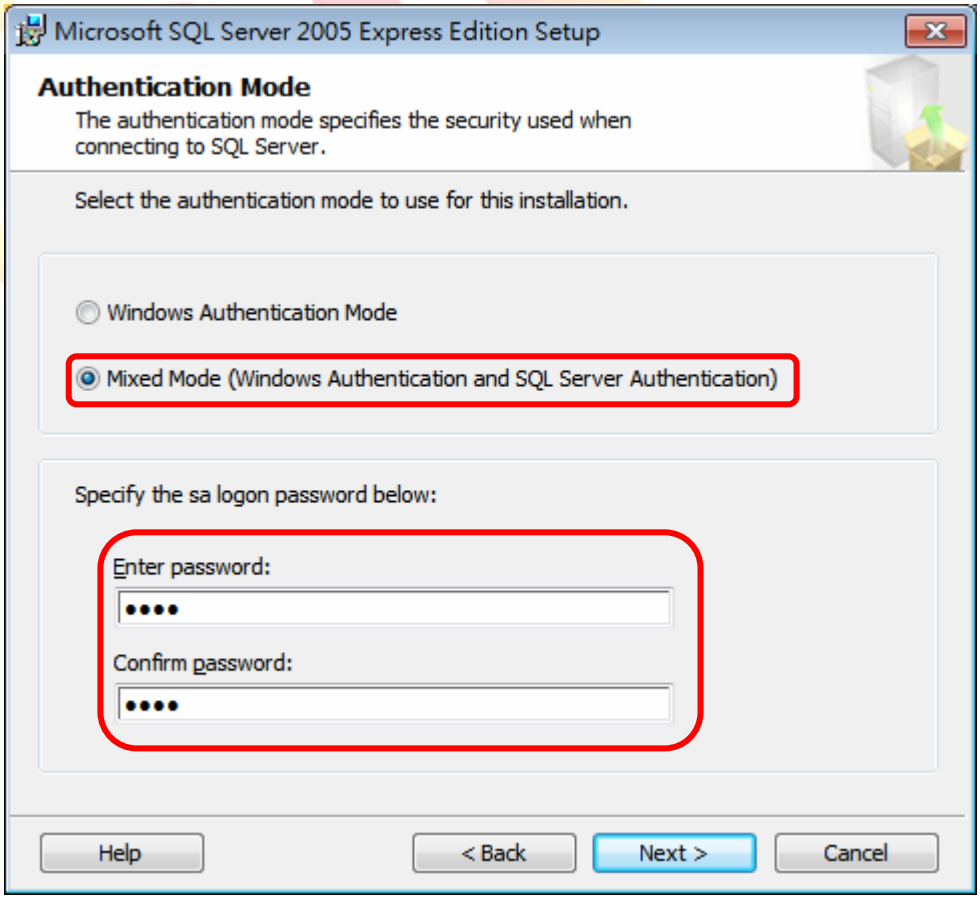


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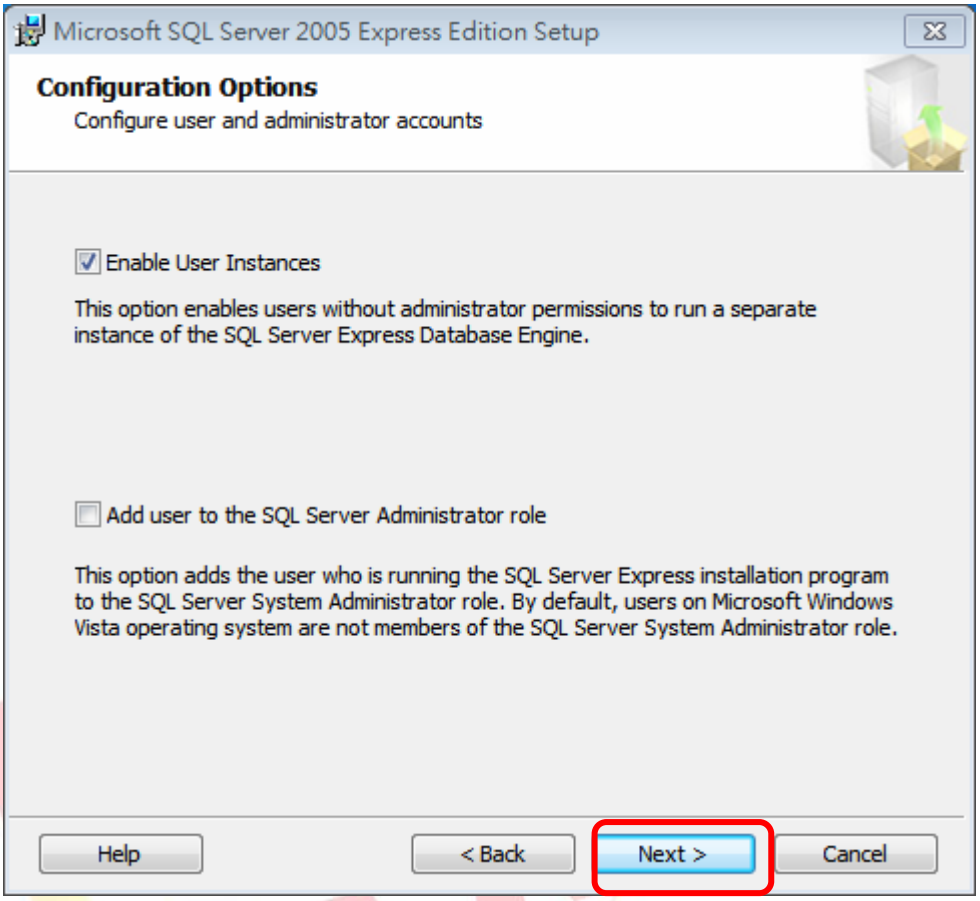
STEP 1.1: Select all components for Install.

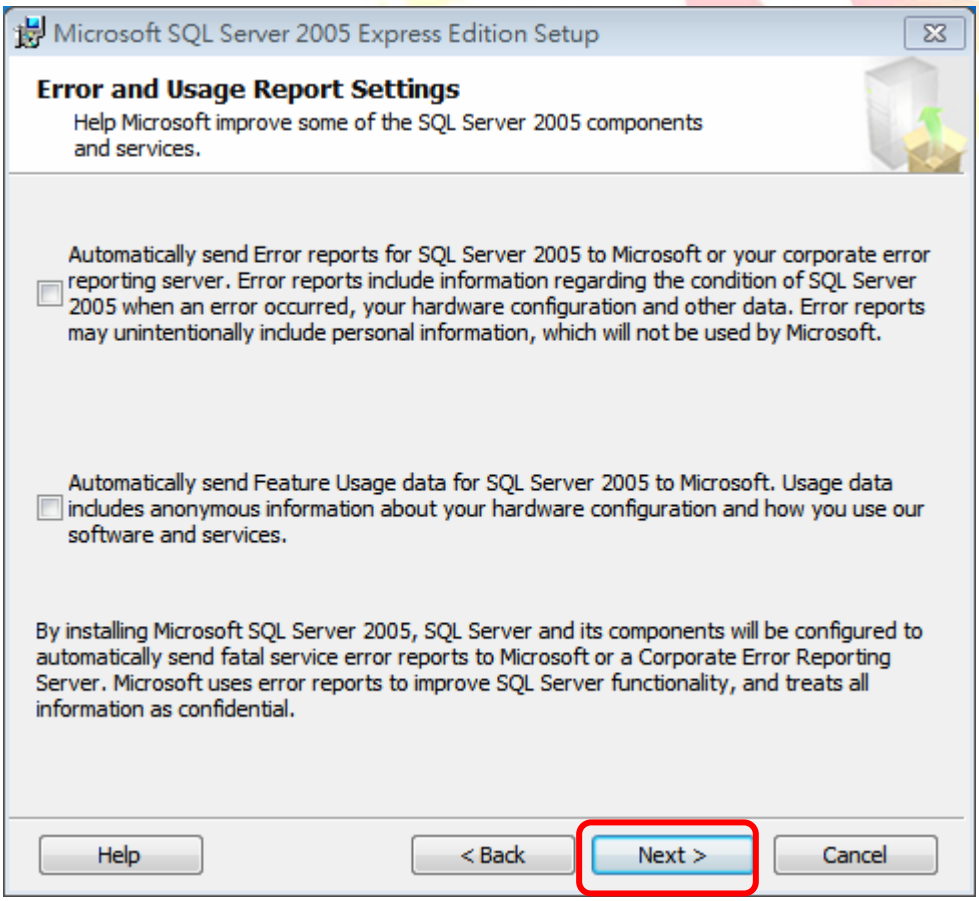


STEP 1.2: Choose “Mixed mode” and set the password. Please remember the password which will be used in the following steps.

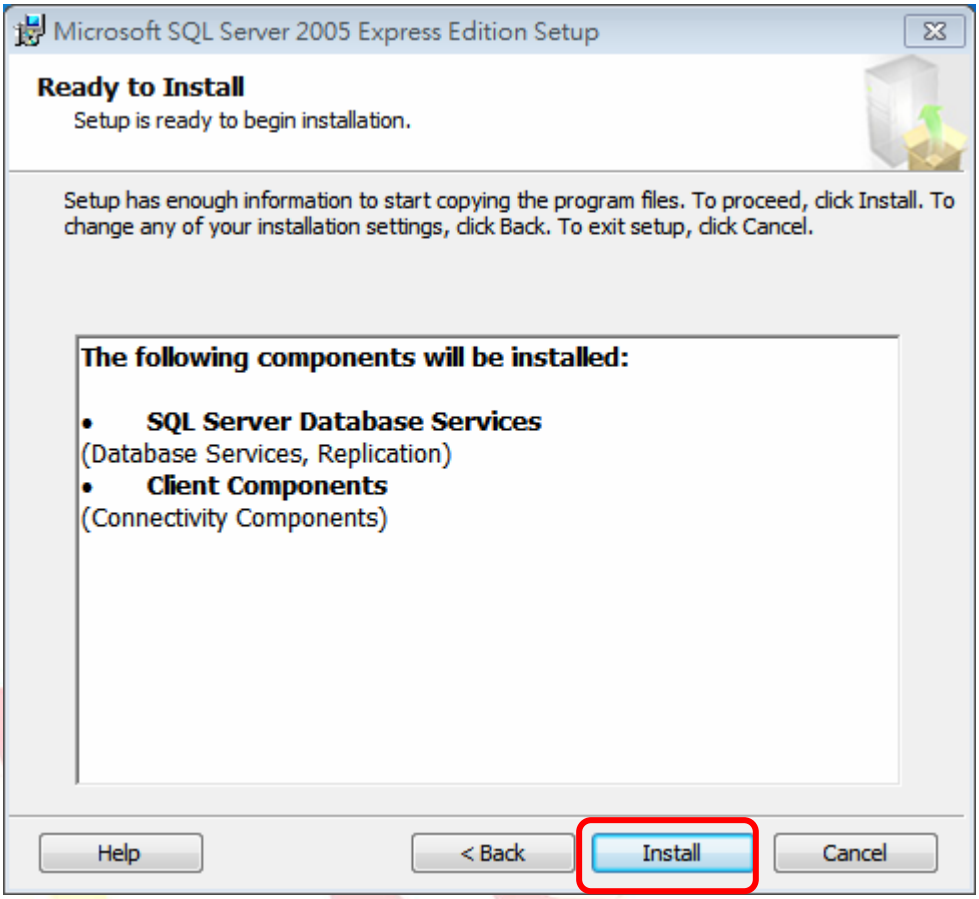


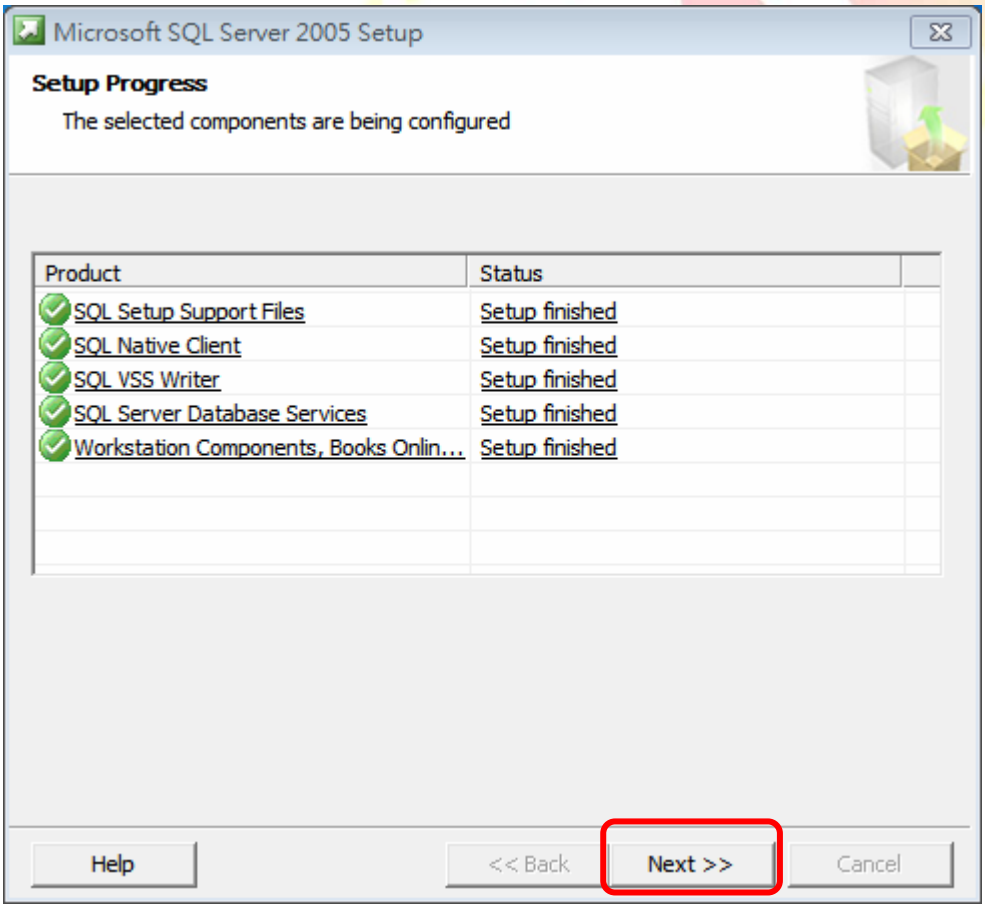
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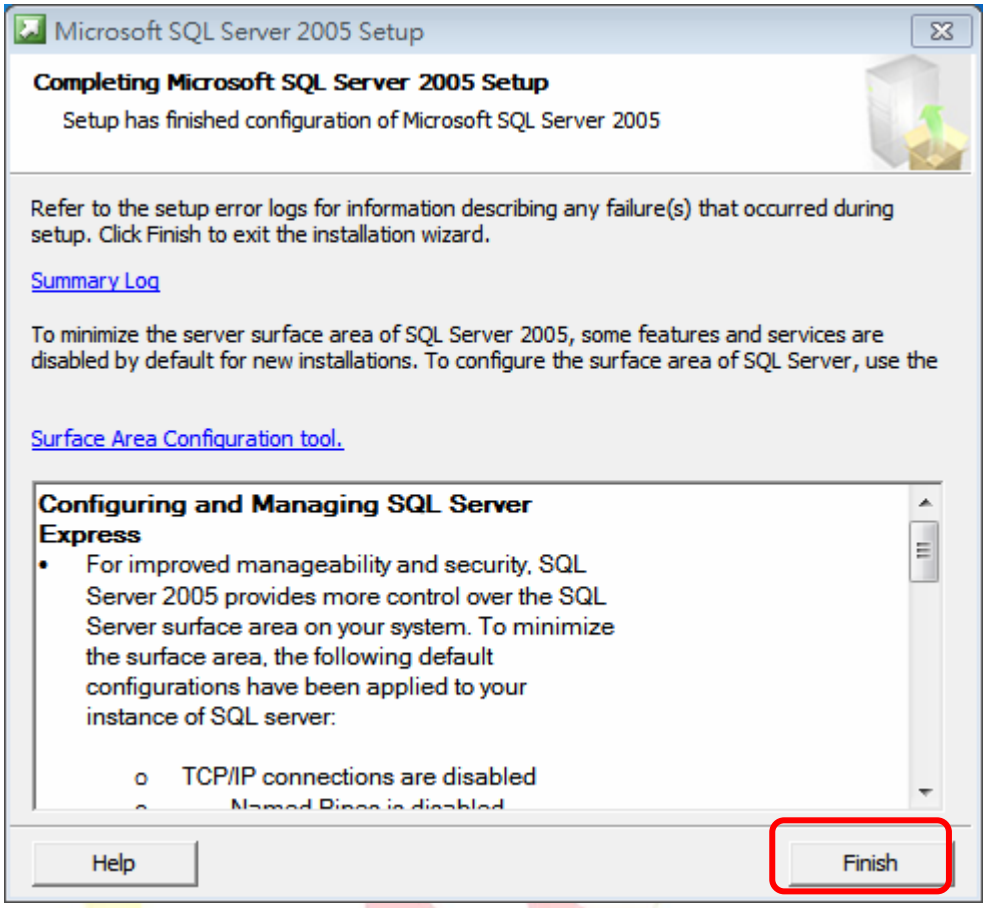


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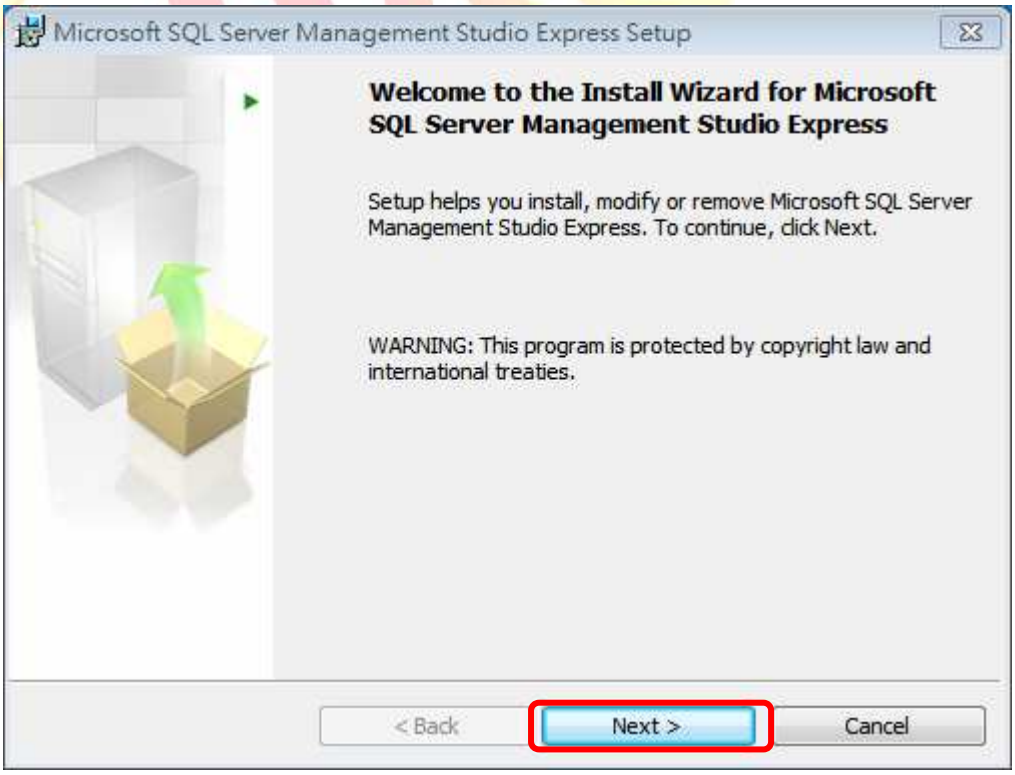




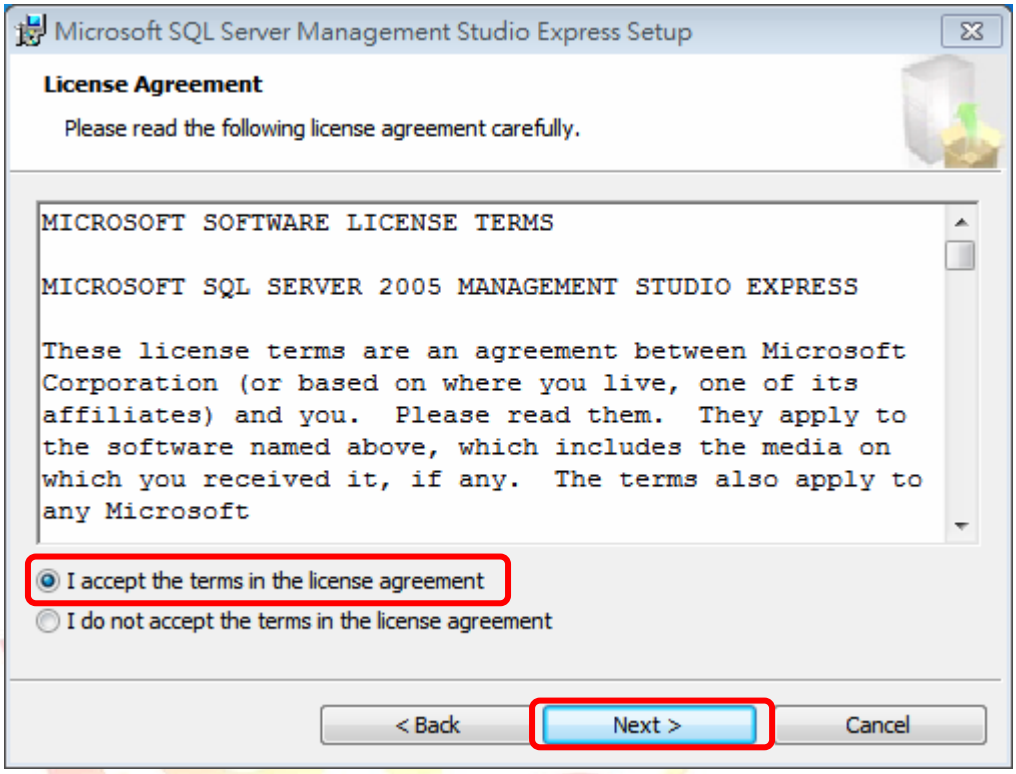
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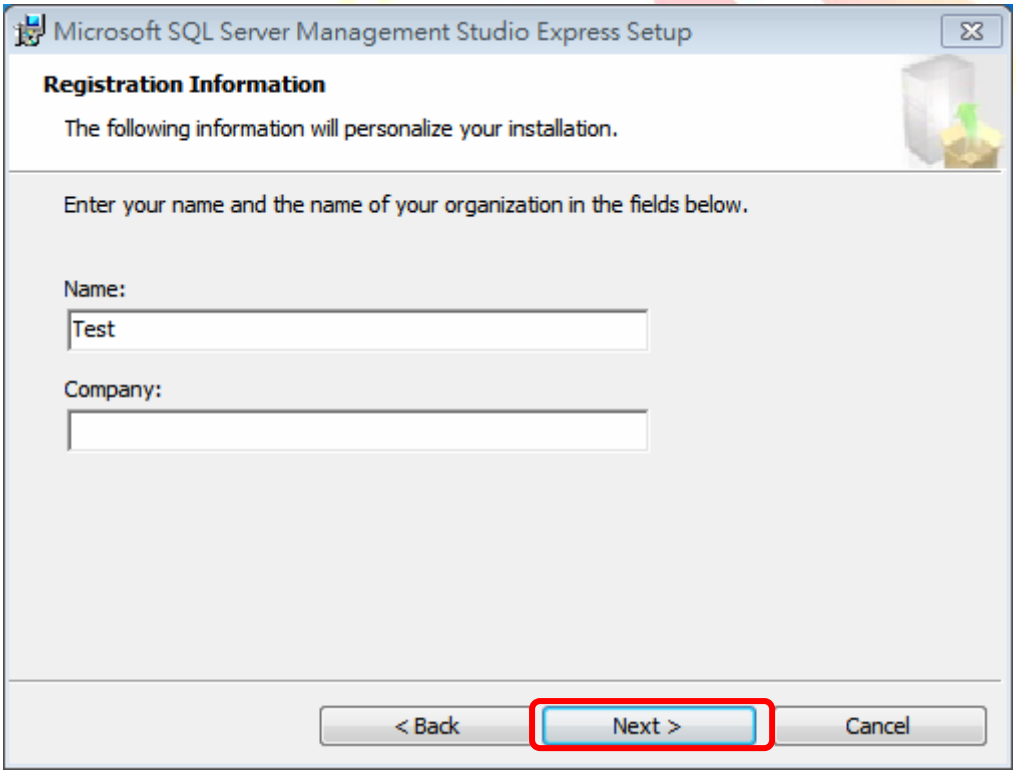


STEP 2: Install SQL Server Management Studio Express with the Setup Wizard

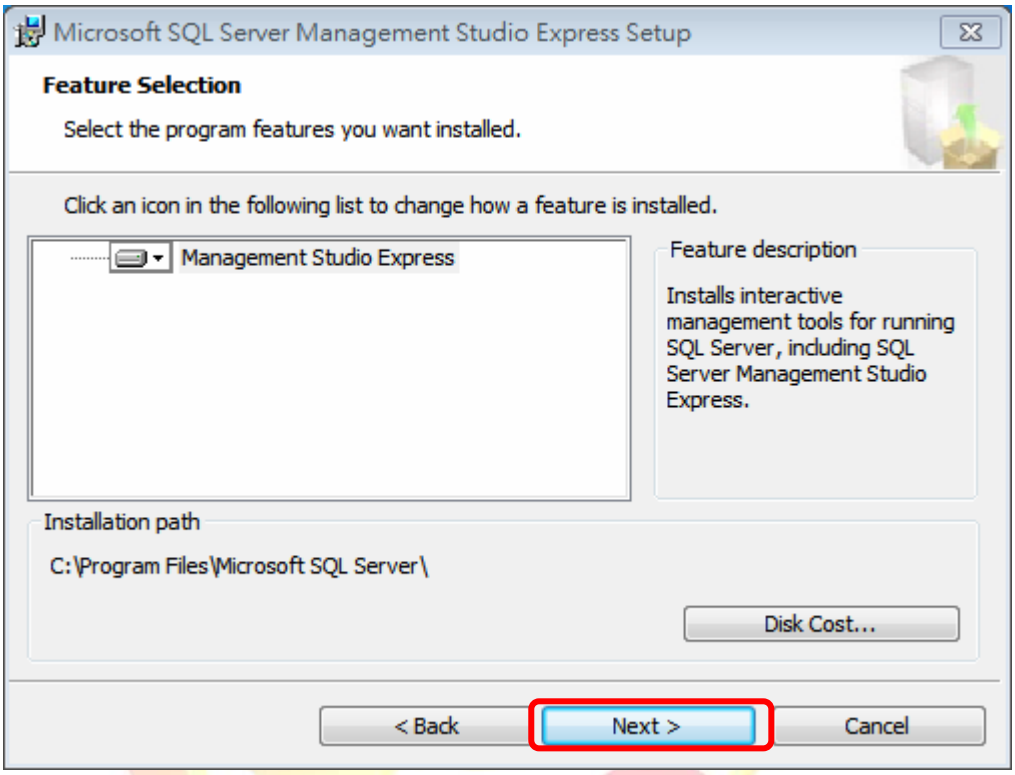


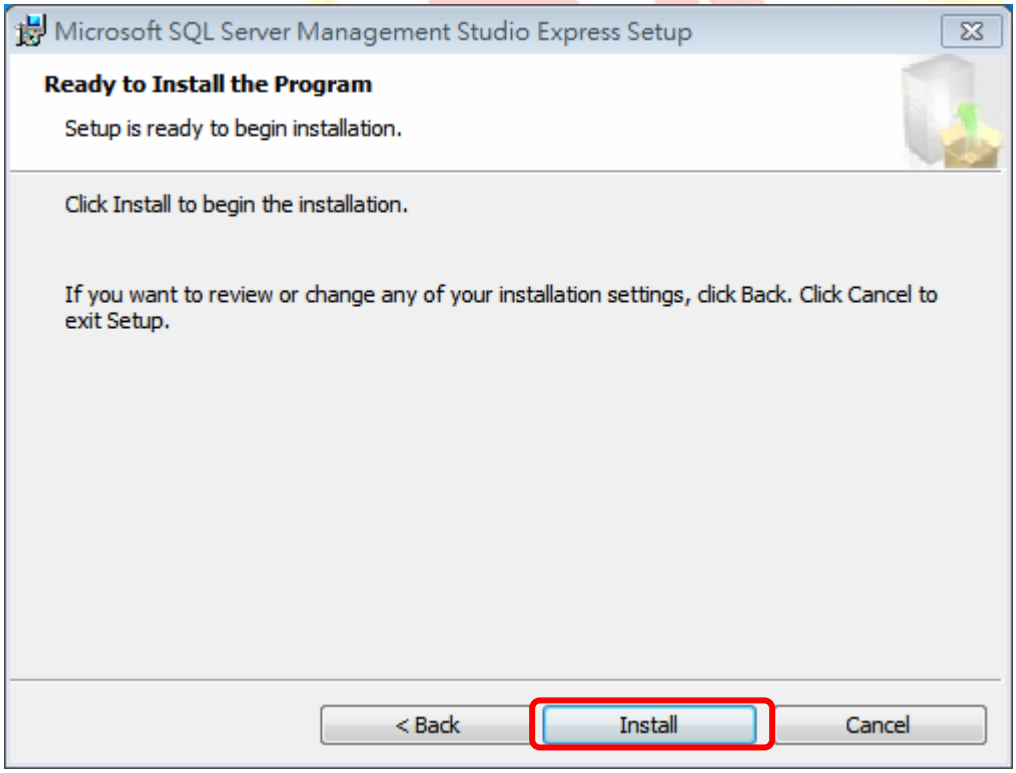
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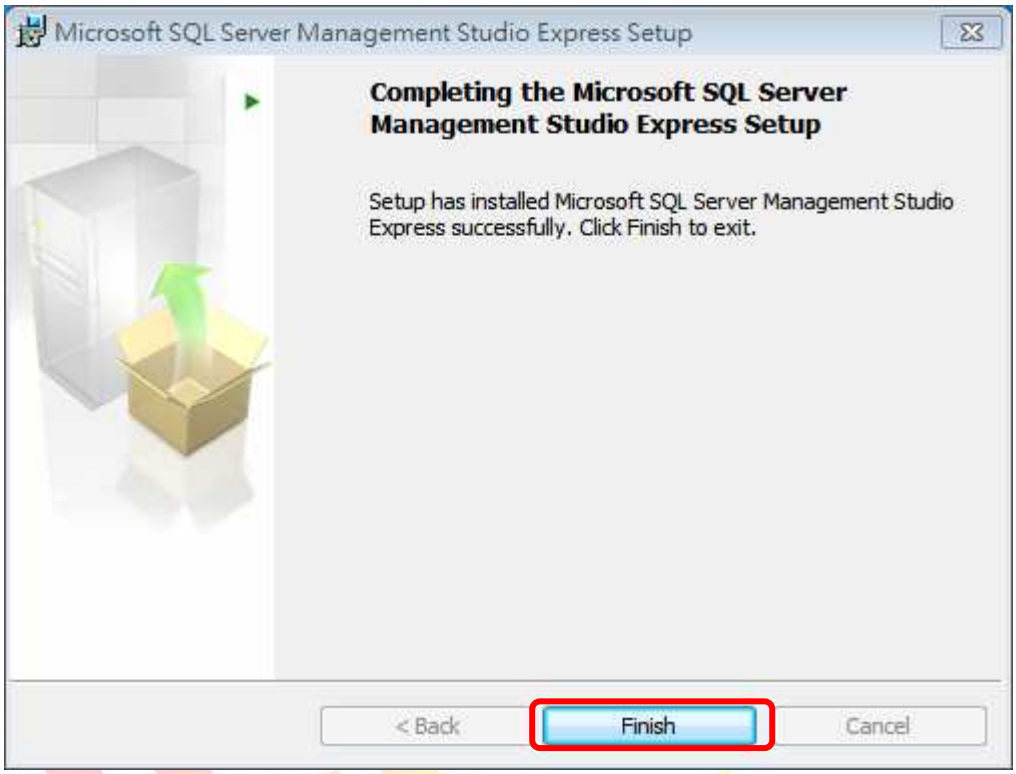


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[Config SQL Server]

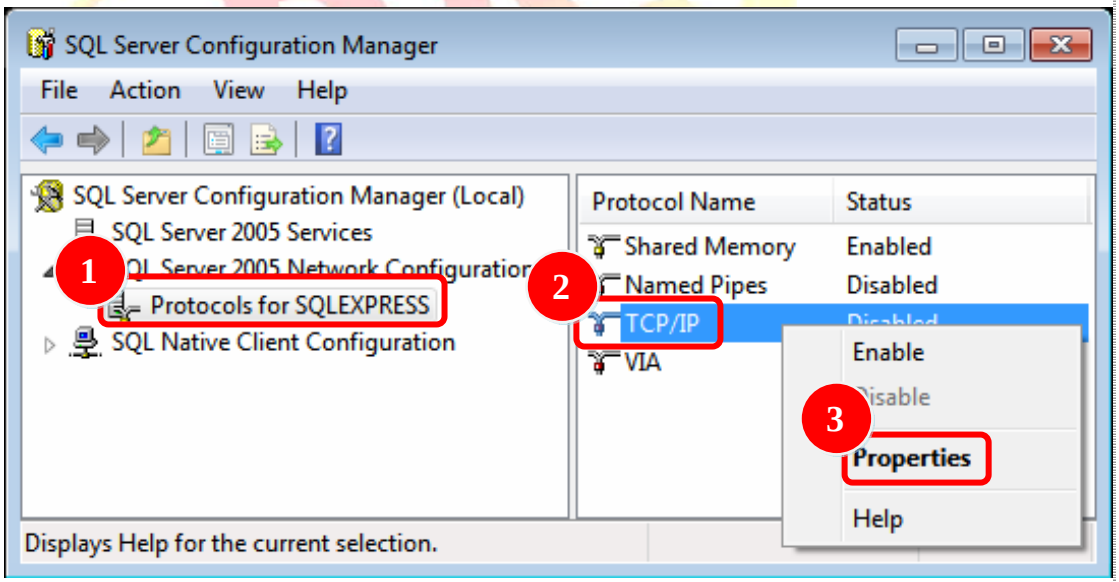
STEP 3: Execute “SQL Server Configuration Manager”

STEP 3.1: Enter “Content” to set

Part 1: Select “Potocols for SQLEXPRESS”

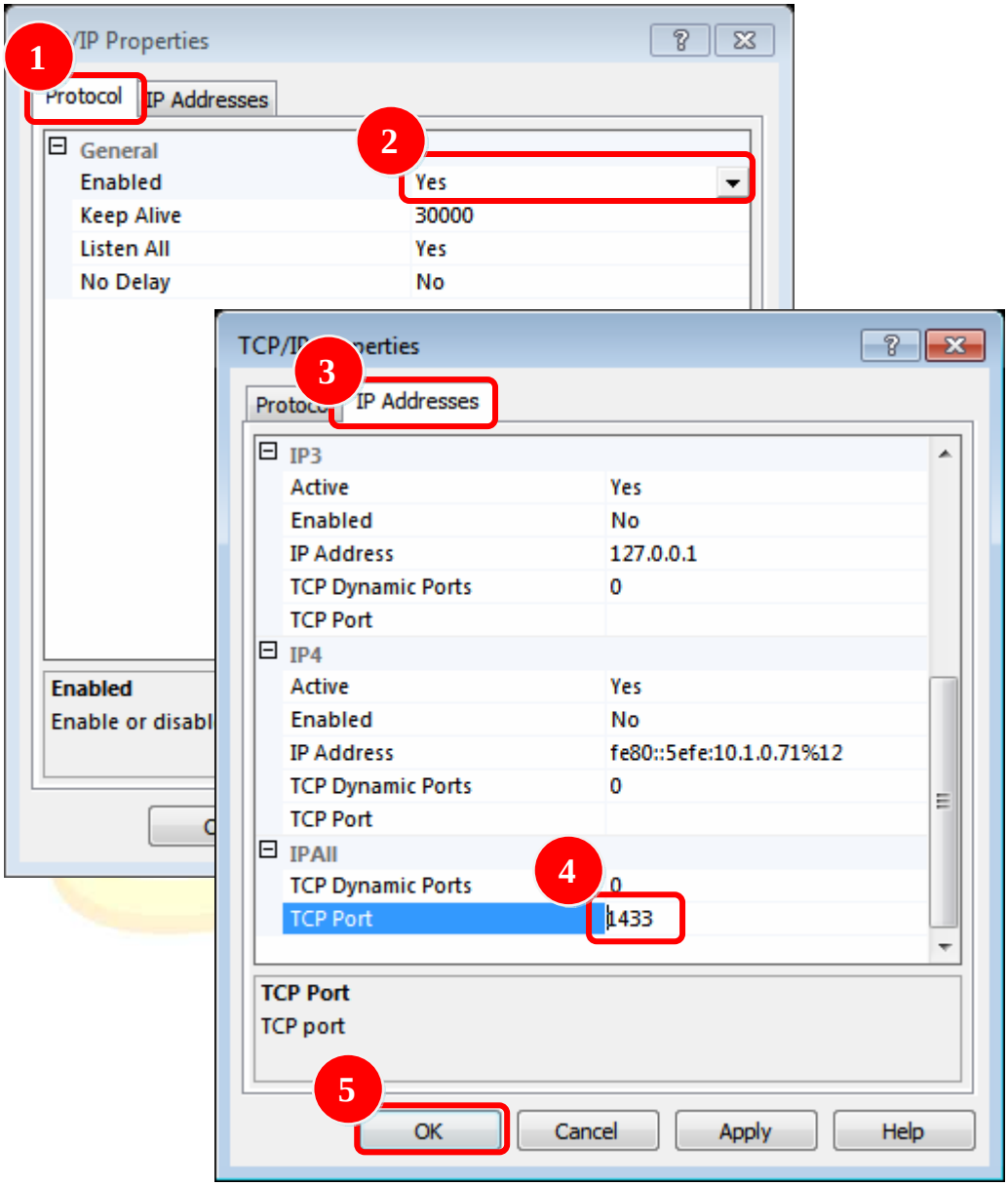
Part 2: Select “TCP/IP”

Part 3: Click “Content” to set



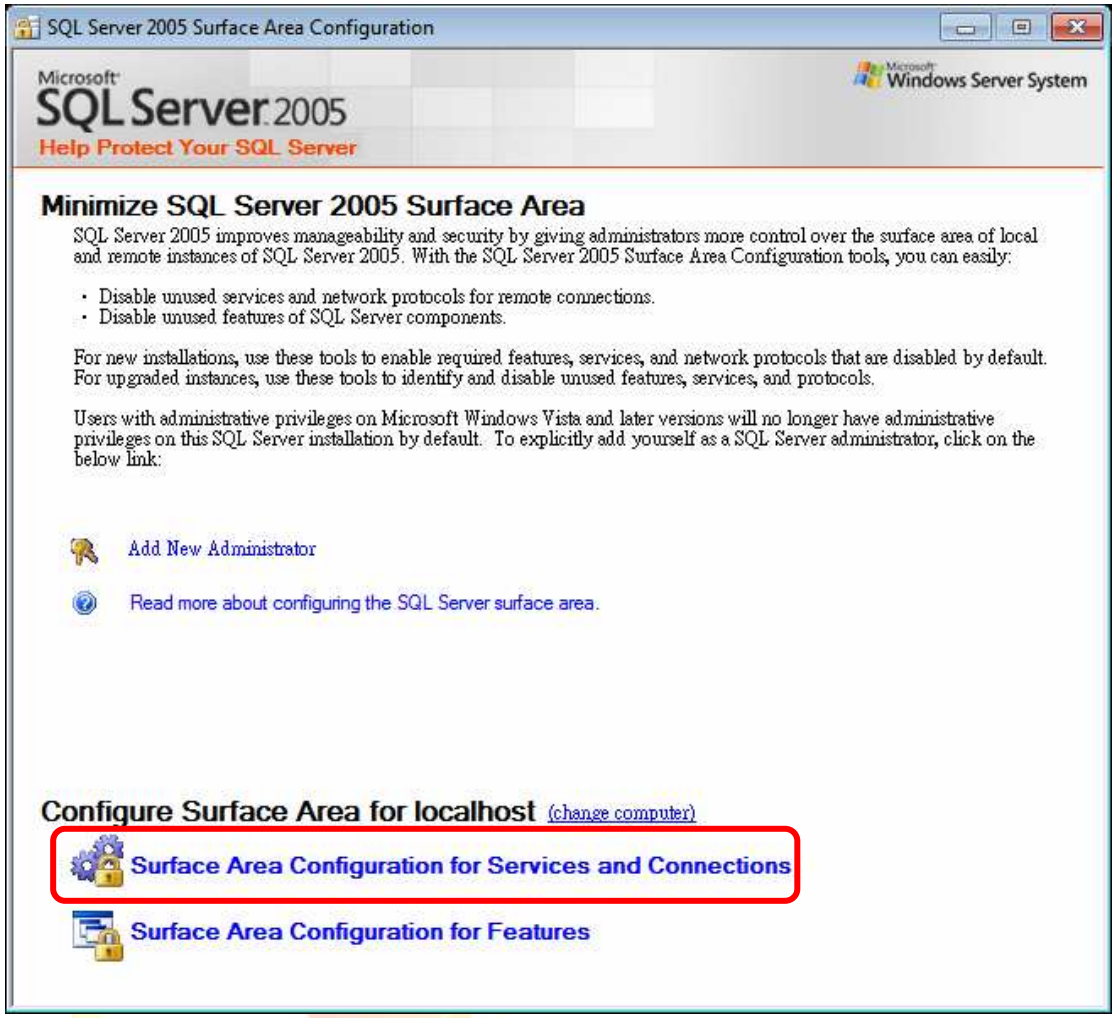
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STEP 3.2: Select “Yes” for “Enabled” at tab “Protocol”
Part 1: Select tab “Protocol”
Part 2: Choose the “Enable” to “Yes”
Part 3: Select tab “IP Addresses”
Part 4: Modify the “TCP Port” to 1433
Part 5: Click button “OK”



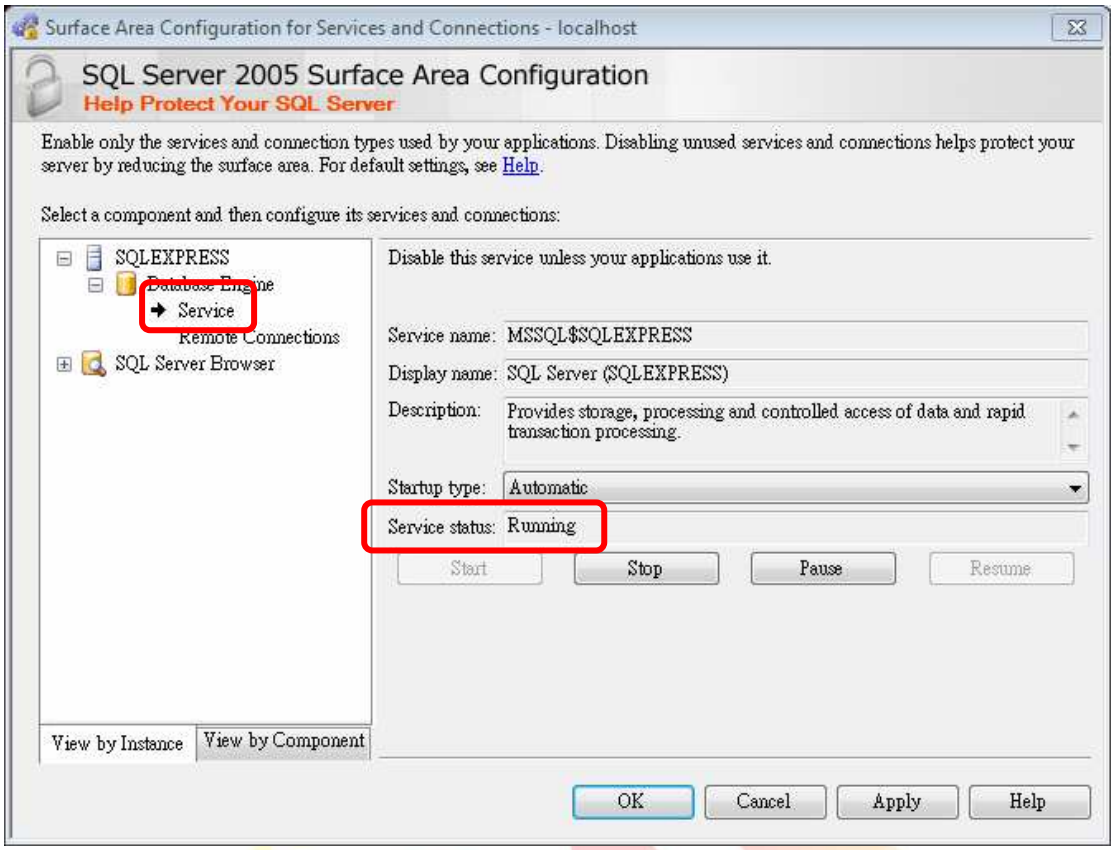
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STEP 3: Execute “SQL Server Surface Area Configuration” and Choose “Surface Area Configuration for Service and Connections”

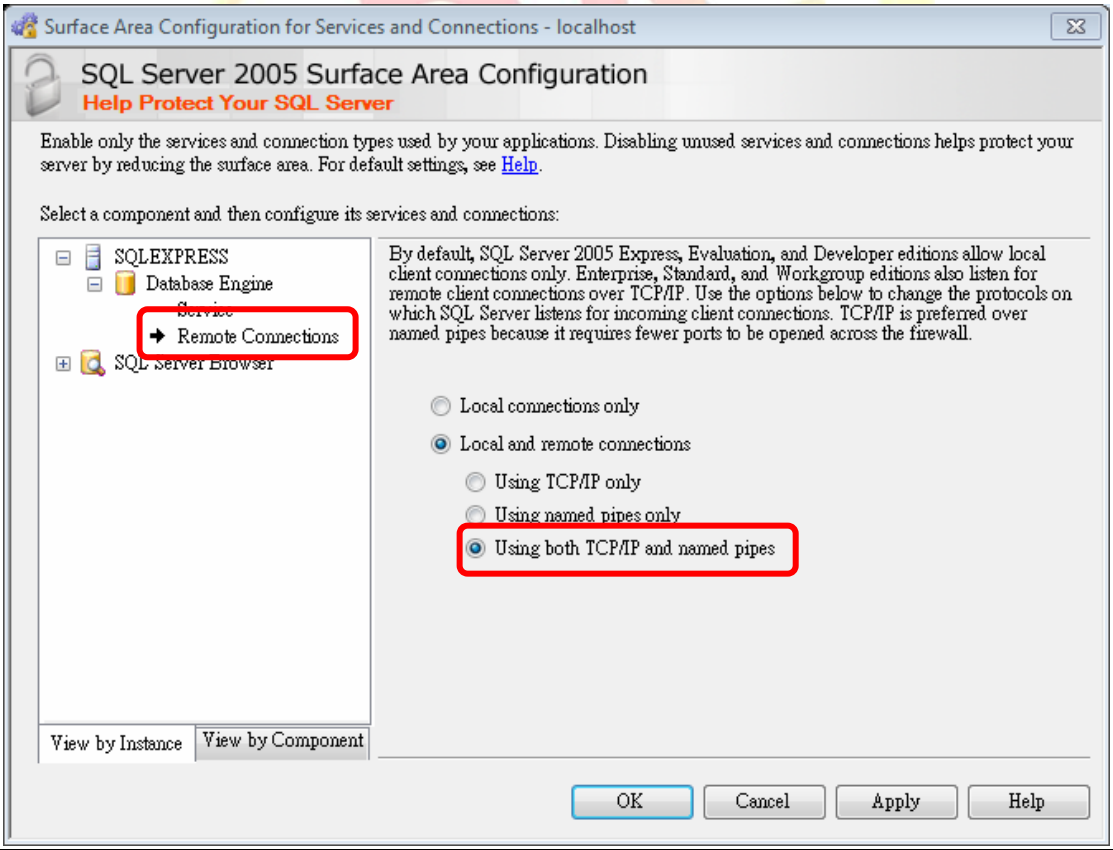


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STEP 3.1: Check the “Service status” is “Running”

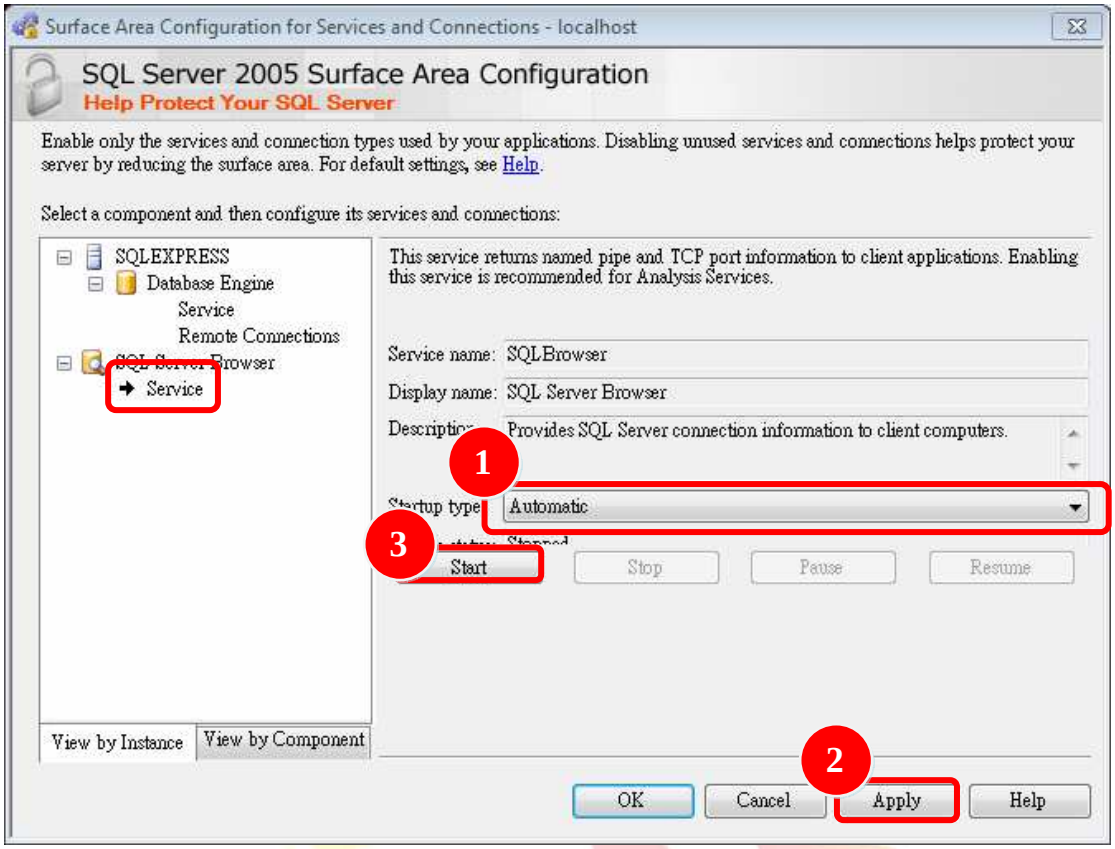


STEP 3.2: Choose the “Using both TCP/IP and named pipes”

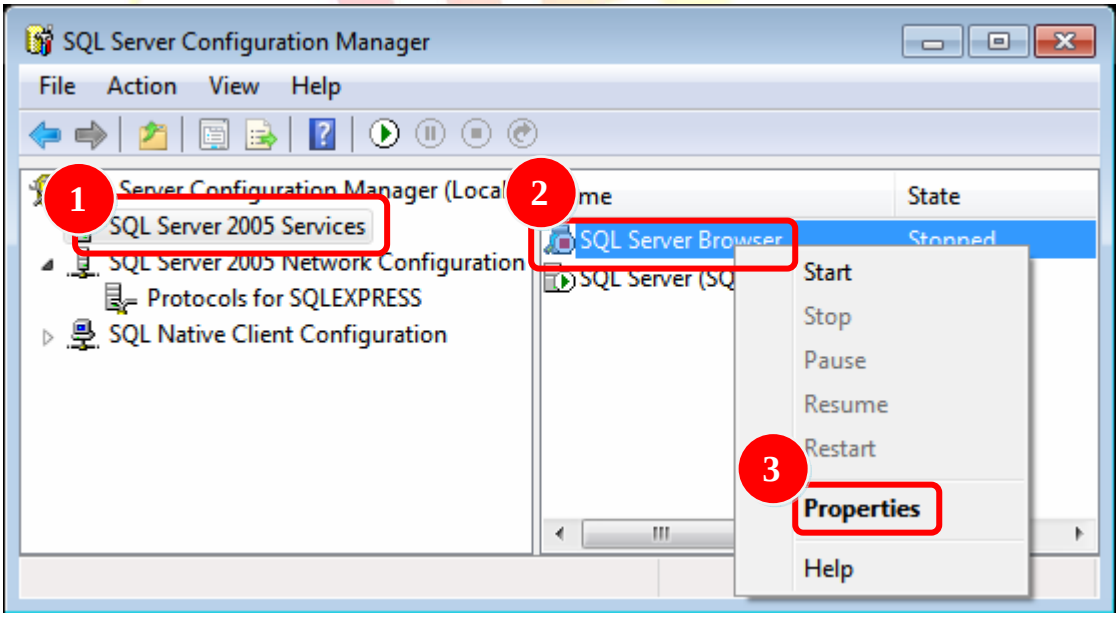


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STEP 3.3: Set “Automatic” ➔ Press “Apply” ➔ Press “Start”

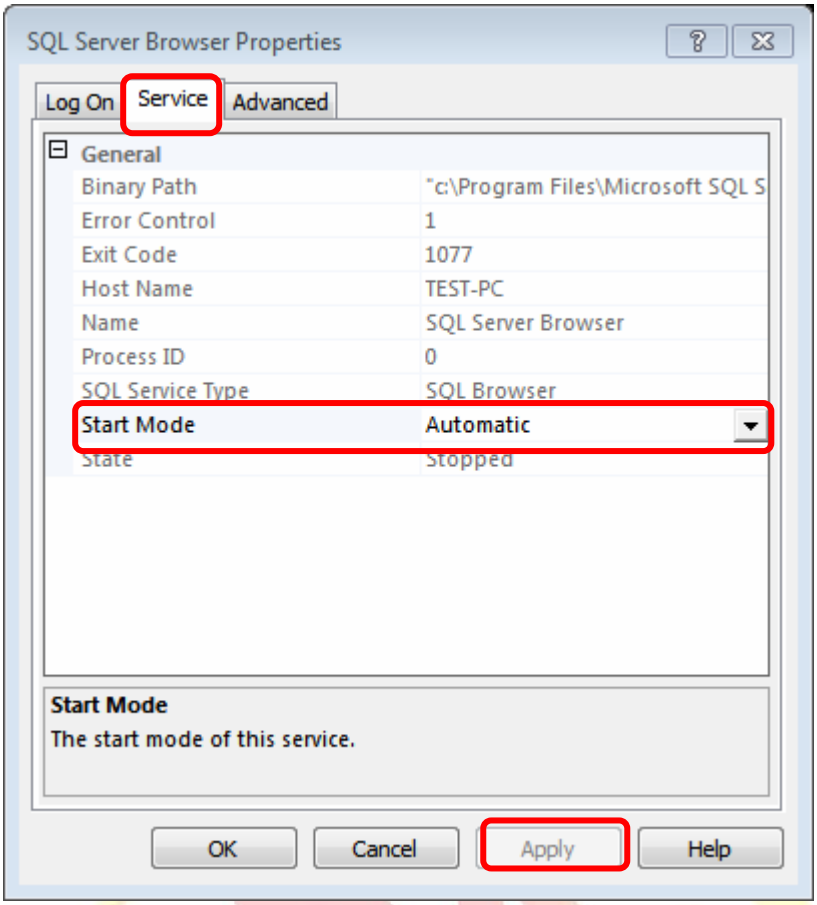


STEP 4: Execute “SQL Server Configuration Manager”
STEP 4.1: SQL Server 2005 Services ➔ SQL Server Brower ➔”Content”

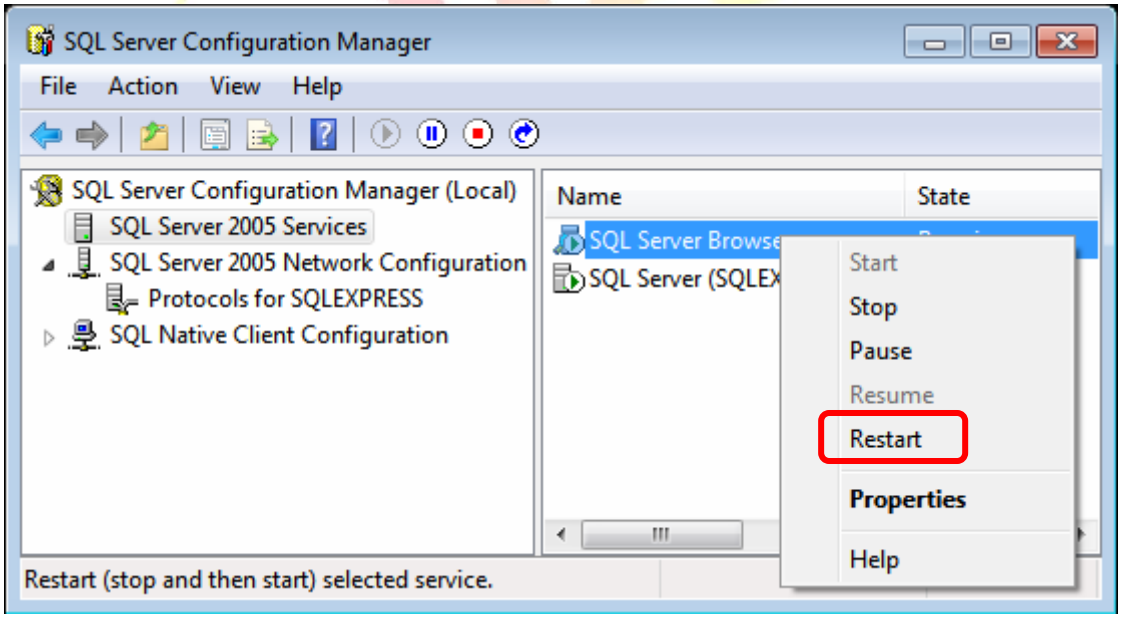


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STEP 4.2: Service ➔ Set “Start Mode” to Automatic ➔ Press “Apply” button



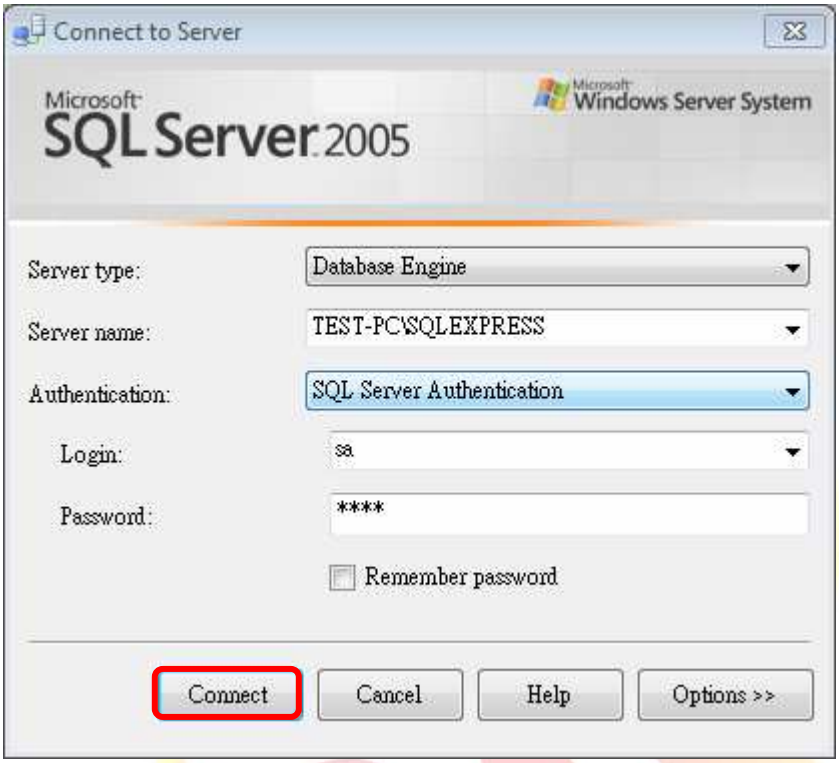
STEP 4.2: Restart to refresh the configurations for SQL Server Brower/SQL Server(SQLEXPRESS).



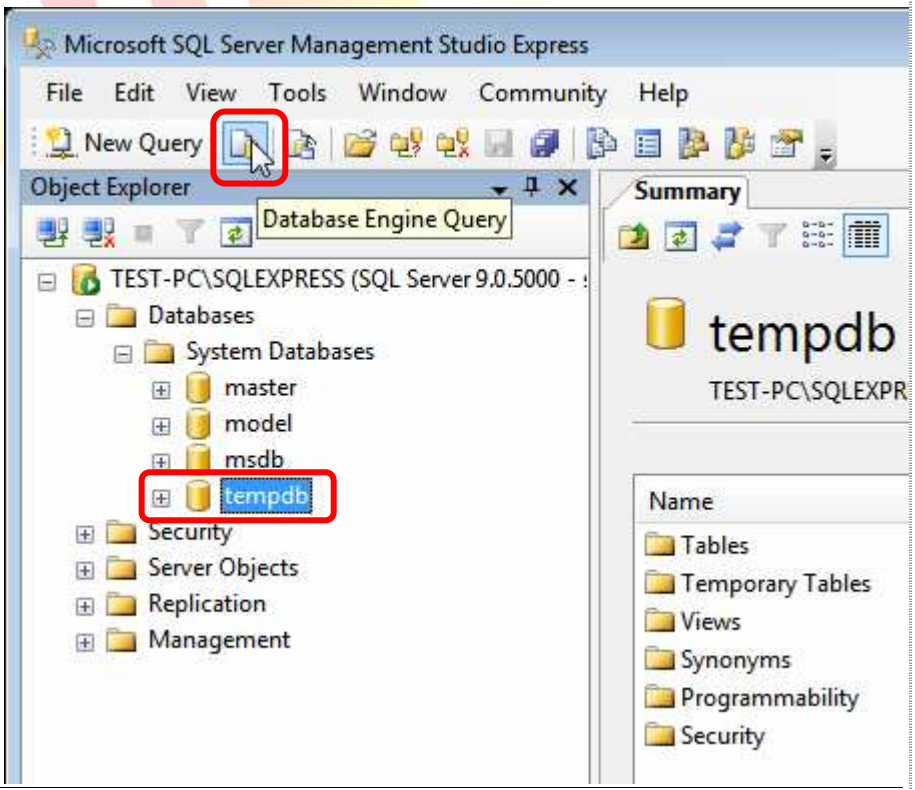
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[Create Database]

STEP 5: Execute “SQL Server Management Studio Express”
STEP 5.1: The Login “sa” is administer, and enter the password that is set in Step1.2

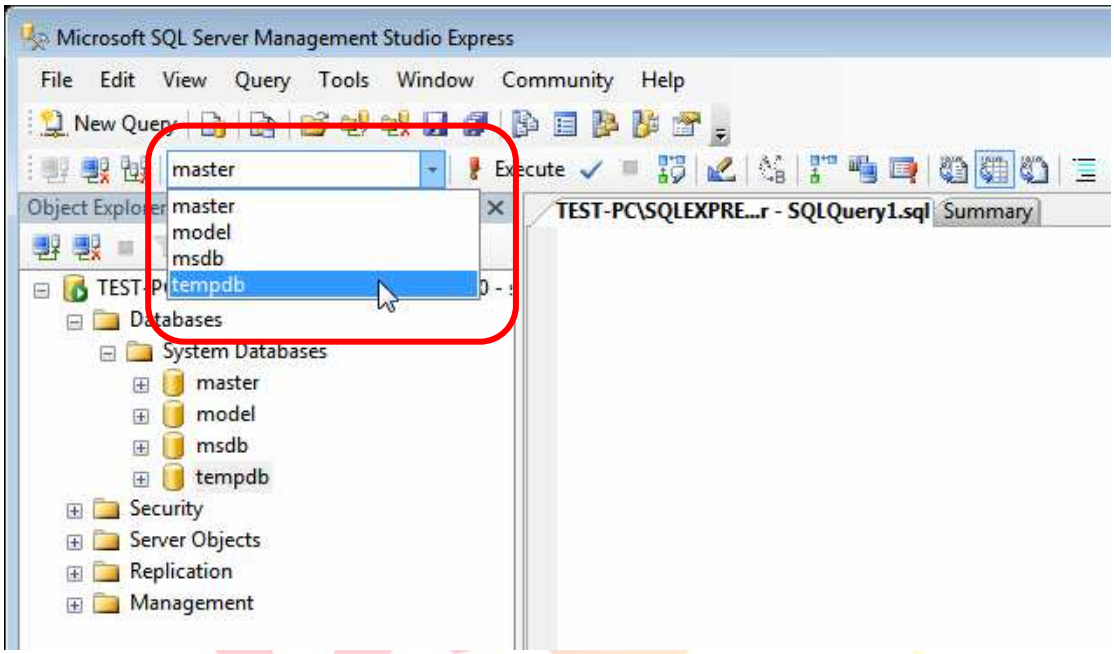


STEP 5.2: Click “Database Engine Query” on “SQL Server Management Studio Express”
And then you have to login again.



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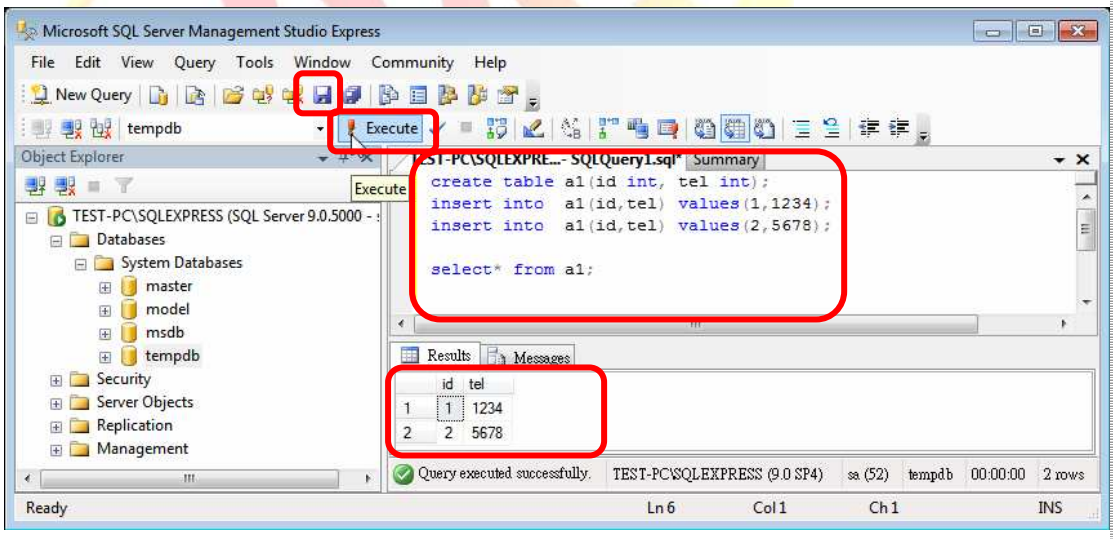
STEP 5.3: Select a database to build table. The example select “tempdb” database.



STEP 5.3: Write the following codes and press “Execute” button. Then, save it.

```
create table a1(id int, tel int);
insert into  a1(id,tel) values(1,1234);
insert into  a1(id,tel) values(2,5678);

select* from a1;
```



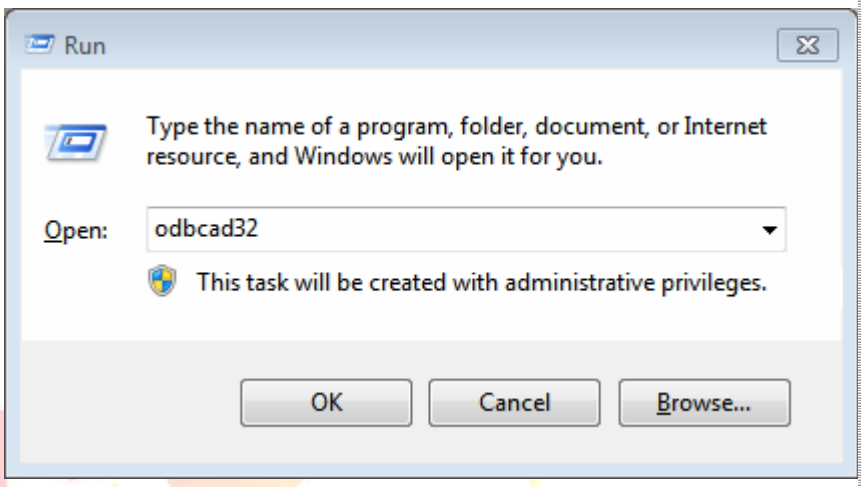
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[Close firewall on your PC]

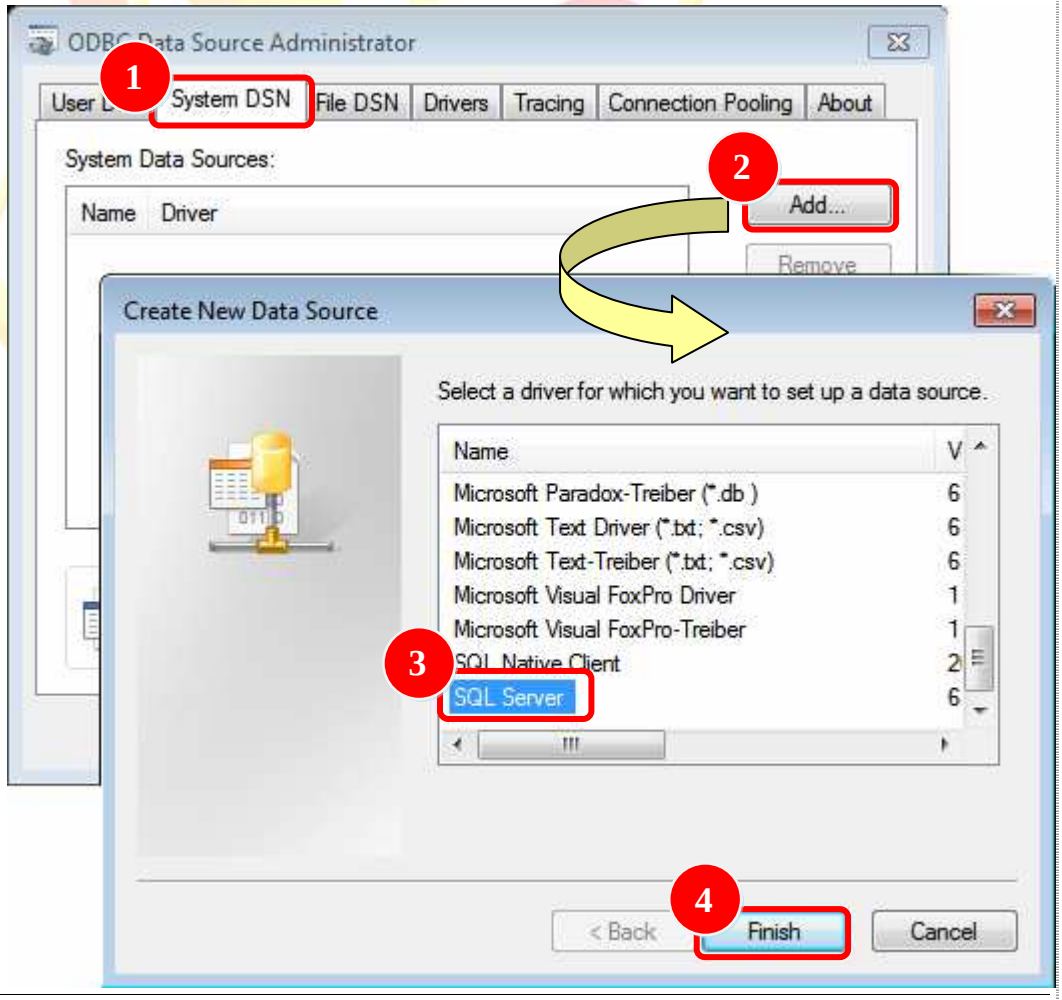
You have to close SQL server's firewall at control panel.
If you don't close the firewall, the other device will connect fail when them client this SQL server.

[Enable SQL Server by ODBC]

STEP 6.1: (Windows Key) + R→enter"odbcad32"

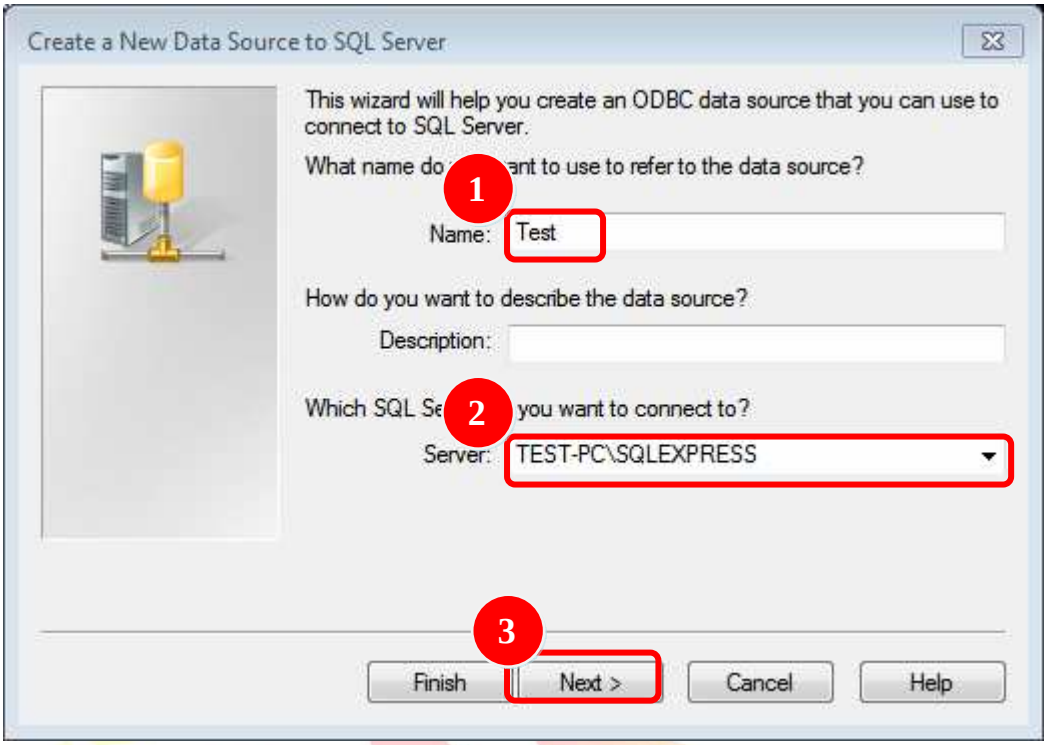


STEP 6.2: Add System DSN
Part 1: Select tab "System DSN"
Part 2: Click button "Add…"
Part 3: Select list "SQL Server"
Part 4: Click button "Finish"

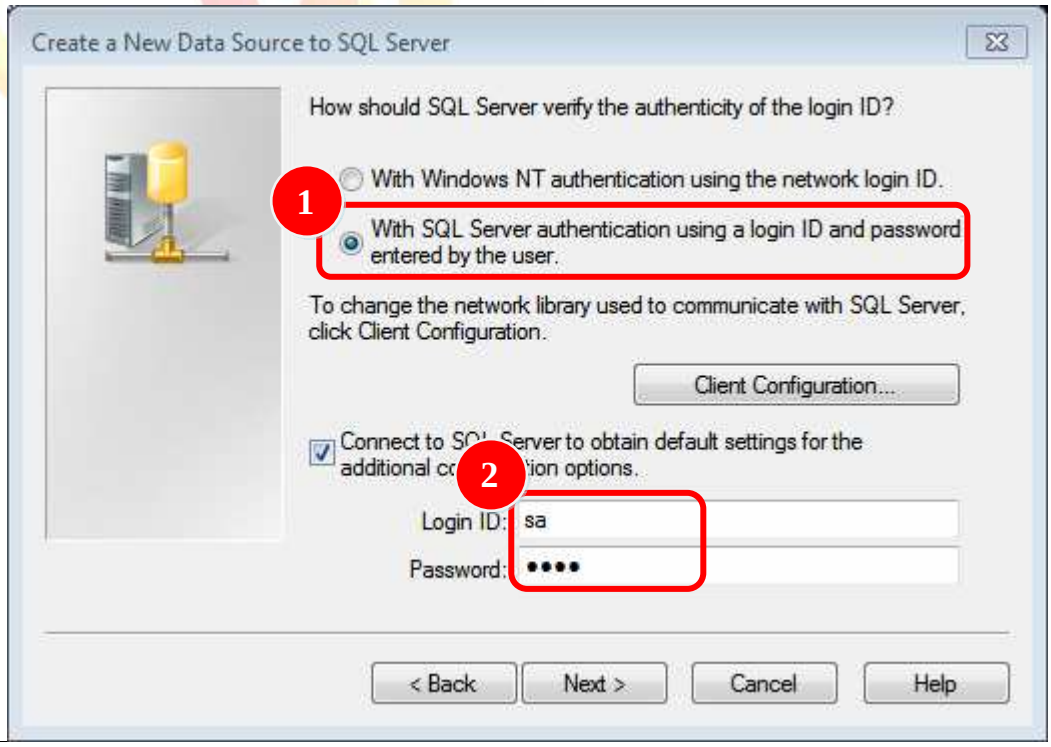


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There are two places need to be adjusted.
STEP 6.3: Create a New Data Source to SQL Server
Part 1: Modify the name by yourself
Part 2: Click ComboBox to select the data on this PC



STEP 6.3: Select login mode
Part 1: Choose second radiobox
Part 2: The login code must be “sa”. Input a password that is set in Step1.



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[Modify the SqlSrRemote demo to connect remote SQL server]

[C#]

Modify IP, database name, ID, password

```
string strConn = " server=10.1.0.56\sqlexpress;database=tempdb;user id=sa;password=1234;";
```

Connect target SQL

```
SqlConnection connRemote = new SqlConnection(strConn);
connRemote.Open();
```

Select* from a1

```
strSql = "select* from a1";
sqlCmd.Connection = connRemote;
sqlCmd.CommandText = strSql;
sqlReader = sqlCmd.ExecuteReader();
```

Create tabe and display the from

```
dTable = new DataTable("a1");
dTable.Columns.Add("id", typeof(int));
dTable.Columns.Add("tel", typeof(int));

while (sqlReader.Read())
{
    dRow = dTable.NewRow();
    dRow["id"] = sqlReader["id"];
    dRow["tel"] = sqlReader["tel"];
    dTable.Rows.Add(dRow);

    dbCount += 1;
}

dataGrid1.DataSource = dTable;
label5.Text = "Number: " + dbCount;
sqlCmd.Dispose();
sqlReader.Close();
```

Standard command program

```
string strSql = null;
SqlCommand sqlCmd = new SqlCommand();
SqlDataReader sqlReader = default(SqlDataReader);
strSql = "You want execute SQL command";
sqlCmd.Connection = connRemote;
sqlCmd.CommandText = strSql;
sqlReader = sqlCmd.ExecuteReader();
sqlCmd.Dispose();
sqlReader.Close();
```


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[VB.net]
Modify IP, database name, ID, password

```
Dim strConn As String = " server=10.1.0.56\sqlexpress;database=tempdb;user id=sa;password=1234;"
```

Connect target SQL

```
Dim connRemote As New SqlConnection (strConn)
connRemote.Open()
```

Select* from a1

```
strSql = "select* from a1"
sqlCmd.Connection = connRemote
sqlCmd.CommandText = strSql
sqlReader = sqlCmd.ExecuteReader()
```

Create tabe and display the from

```
dTable = New DataTable ("a1")
dTable.Columns.Add("id", GetType(Integer))
dTable.Columns.Add(""tel", GetType(Integer))

While sqlReader.Read()dRow = dTable.NewRow();
    dbCount += 1;
    dRow = dTable.NewRow()
    dRow("id") = sqlReader("id")
    dRow("tel") = sqlReader("tel")
    dTable.Rows.Add(dRow)
    dbCount += 1
End While

dataGrid1.DataSource = dTable
label5.Text = "Number: " + dbCount
sqlCmd.Dispose()
sqlReader.Close()
```

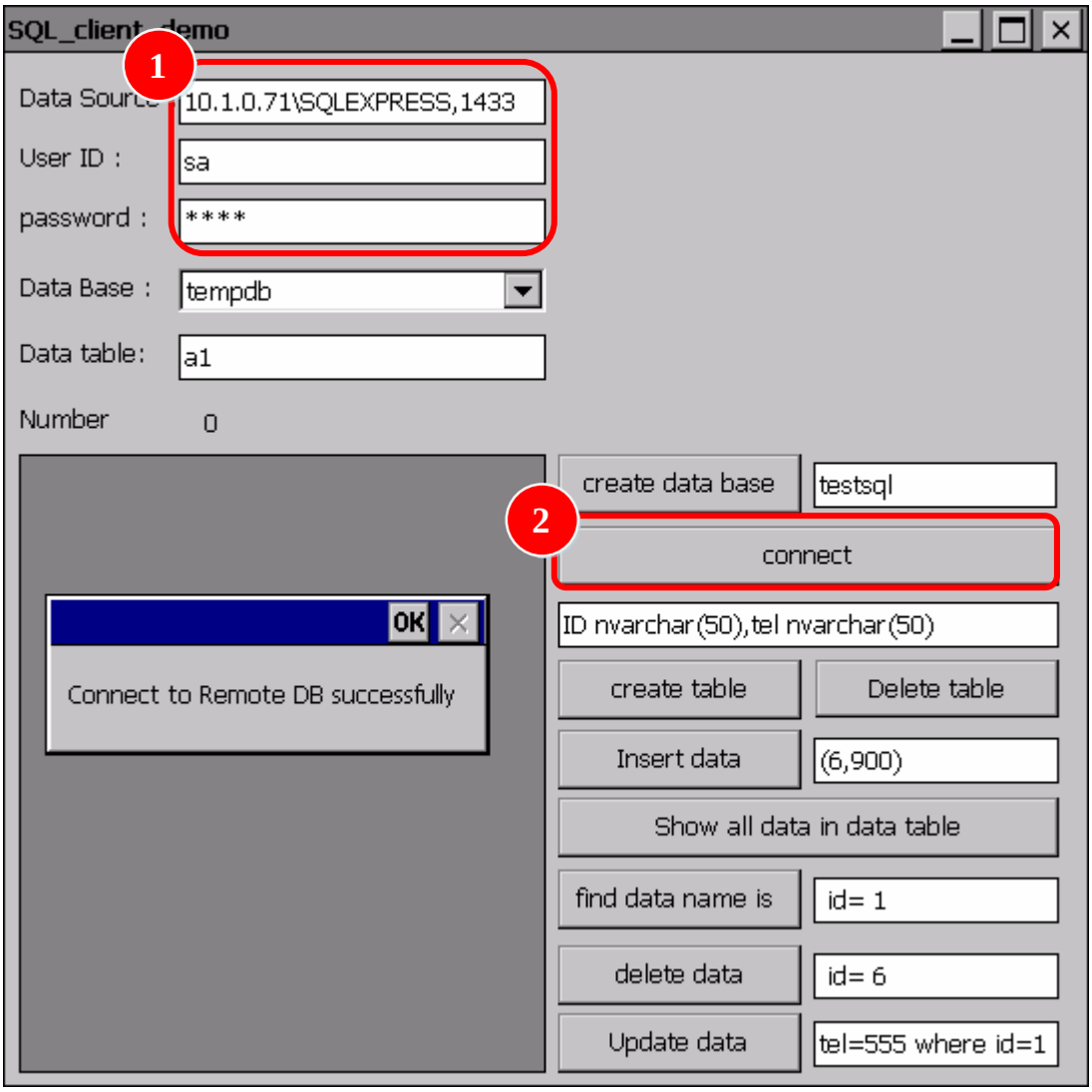
Standard command program

```
Dim strSql As String = Nothing
Dim sqlCmd As New SqlCommand()
Dim sqlReader As SqlDataReader = Nothing
strSql = "You want execute SQL command"
sqlCmd.Connection = connRemote
sqlCmd.CommandText = strSql
sqlReader = sqlCmd.ExecuteReader()
sqlCmd.Dispose()
sqlReader.Close()
```


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[Demo Program]

STEP 1: Enter the target server, user id, password
Part 1: Enter the target server, database user id, password
Part 2: Click button “connect”, it will show the message box if it connect success



STEP 2: Select ComboBox “Data Base” for CREATE, SELECT, INSERT, DELETE, etc.

Button information for this example, and the red string user can be change.
Create data base: "CREATE DATABASE **testsql**"
Create table: "CREATE TABLE **a1(ID nvarchar(50),tel nvarchar(50)**)"
Delete table: "DROP TABLE **a1**"
Insert data: "Insert Into **a1** Values **(6,900)**"
Show all data in data table: "Select * from **a1**"
Find data name is: " Select * from **a1** where **id= 1**"
Delete data: "delete from **a1** where **id= 6**"
Update data: "Update **a1** set **tel=555 where id=1**"

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