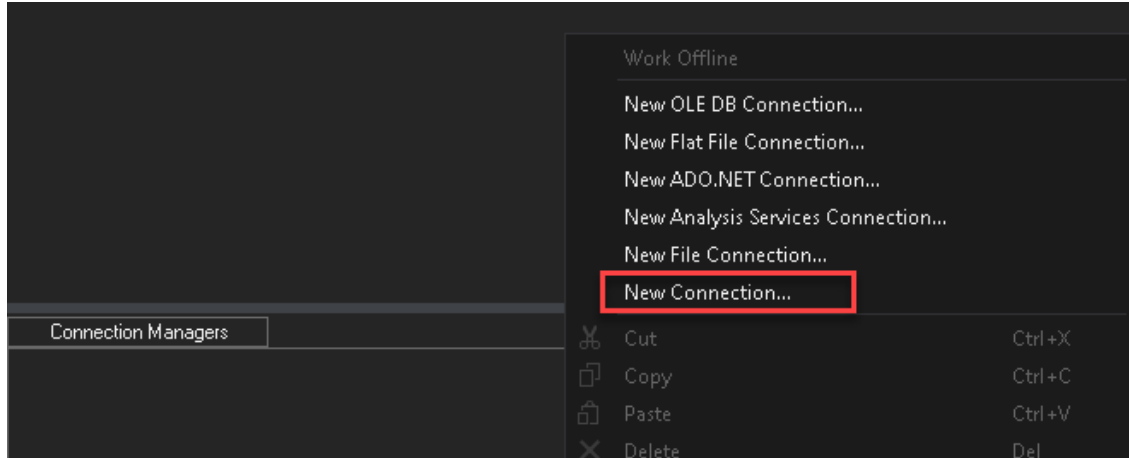


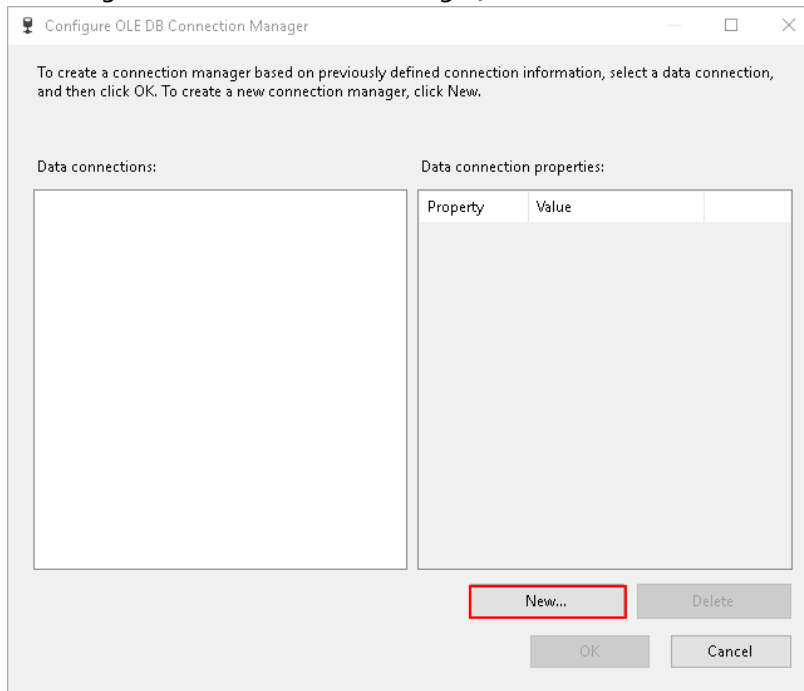
SQL SERVER INTEGRATION SERVICES

MODULE 04 – LAB 02: EVENT HANDLERS

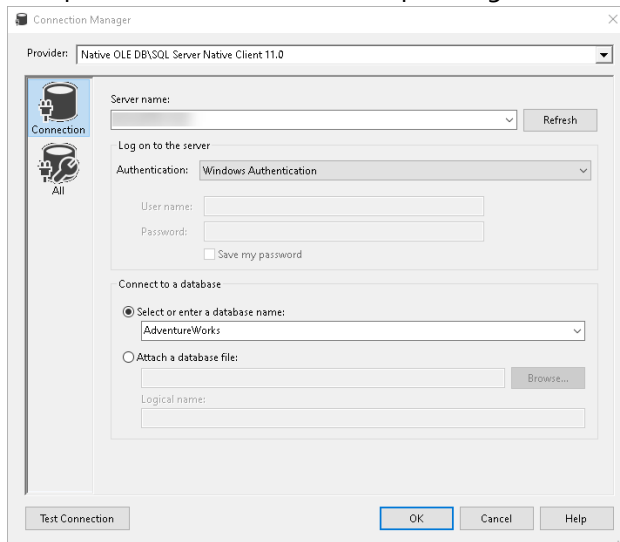
1. Create new integration services project.
2. Set up a connection manager for the database. In the bottom center pane under Connection Manager, right-click select New Ole-DB Connection.



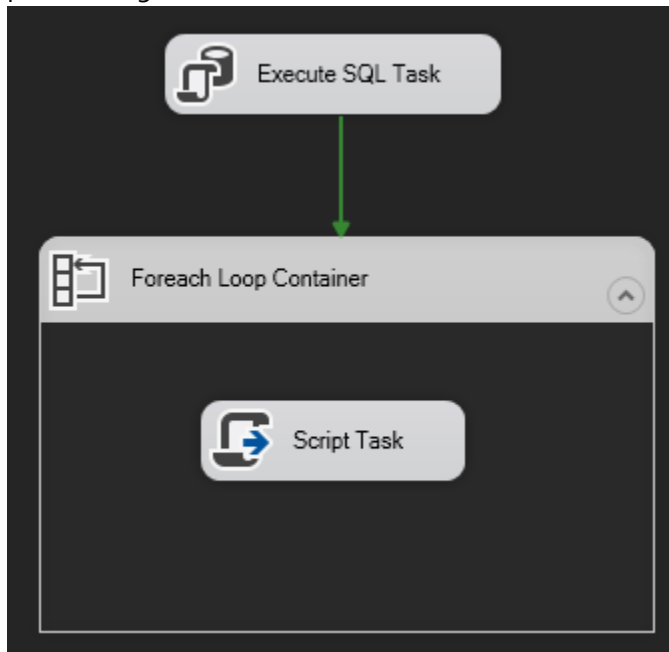
3. In Configure OLE DB Connect Manager, click New.



4. Setup connection to SQL Server pointing to the AdventureWorks database.



5. Setup the tasks (Execute SQL Task, Foreach Loop Container, and Script Task). and link them as per the diagram below.



6. Setup two package variables (PersonID and Persons).

Name	Scope	Data type	Value
PersonID	Package	Int32	0
Persons	Package	Object	System.Object

7. Configure the Execute SQL Task linking to connection created in Step #1.

8. Execute the SQL Statement (SELECT TOP 2 BusinessEntityID FROM Person.Person ORDER BY 1), output the results to a "Full result set."

Execute SQL Task Editor

Configure the properties required to run SQL statements and stored procedures using the selected connection.

General

Name: Execute SQL Task

Description: Execute SQL Task

Options

TimeOut: 0

CodePage: 1252

TypeConversionMode: Allowed

Result Set

ResultSet: Full result set

SQL Statement

ConnectionType: OLE DB

Connection: MOGUPTA-PC01.AdventureWorks2012

SQLSourceType: Direct input

SQLStatement: SELECT Top 2 BusinessEntityID FROM Person.Person ORDER BY 1

IsQueryStoredProcedure:

BypassPrepare:

Name

Specifies the name of the task.

Browse... Build Query... Parse Query

OK Cancel Help

9. Save the result set to a variable created in step #6.

Execute SQL Task Editor

Configure the properties required to run SQL statements and stored procedures using the selected connection.

Result Set

Result Name: 0

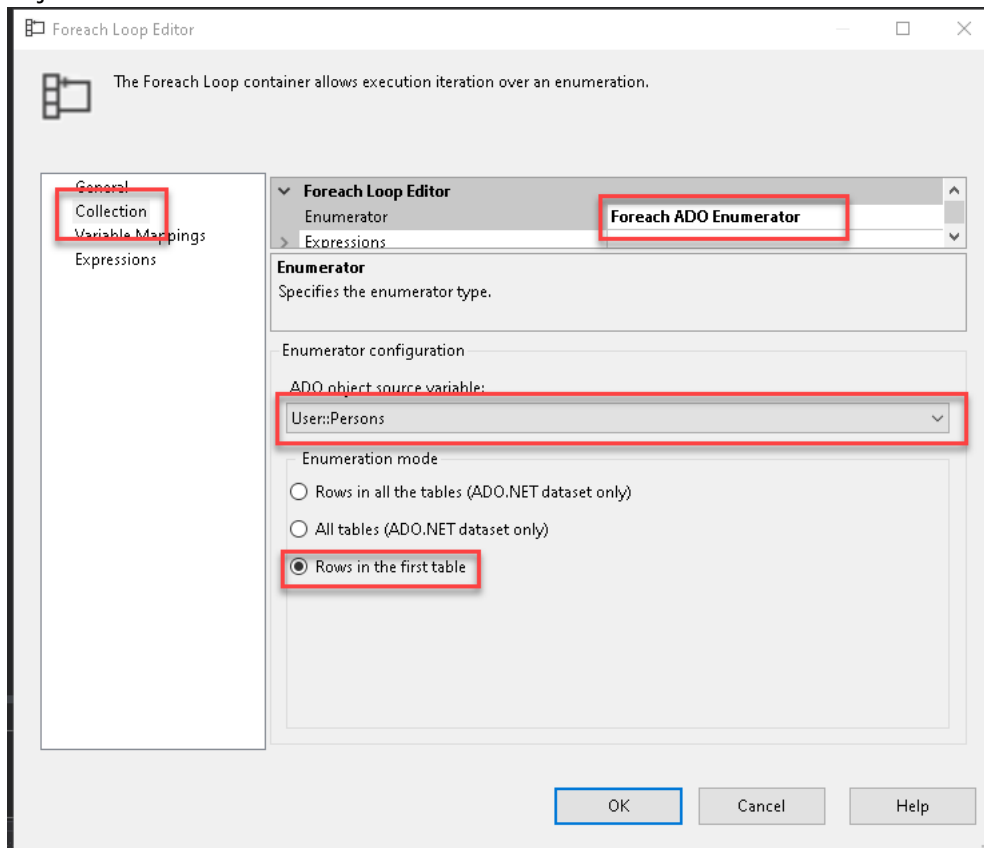
Variable Name: User::Persons

General

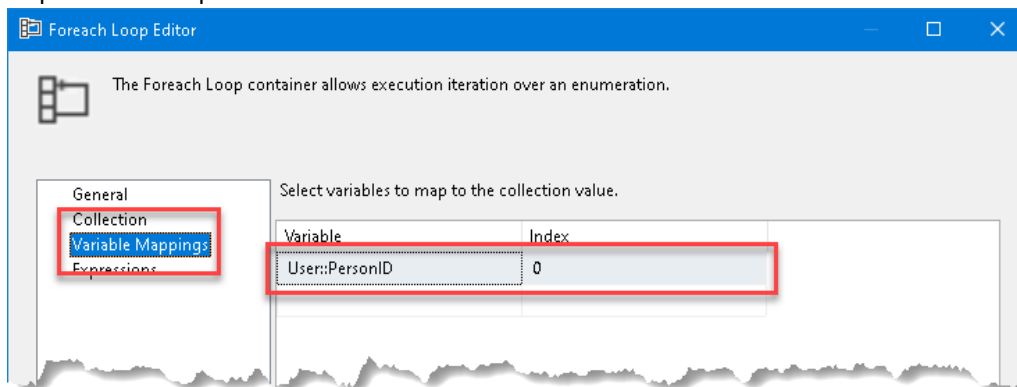
Parameter Mapping

Expressions

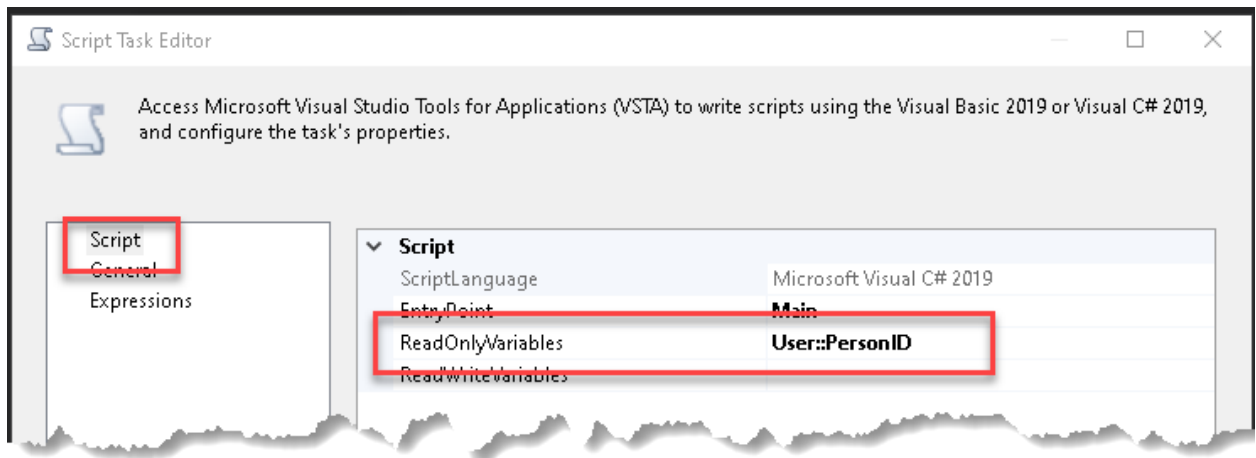
10. Configure the ForEach loop. Under Enumerator select "Foreach ADO Enumerator". From ADO object select the variable User::Persons.



11. Capture the output of each row in result set and save it to variable User::PersonID.



12. Modify the script task, pass in User::PersonID as ReadOnlyVariable. Add the following code in the script:



```
public void Main()
{
    // TODO: Add your code here

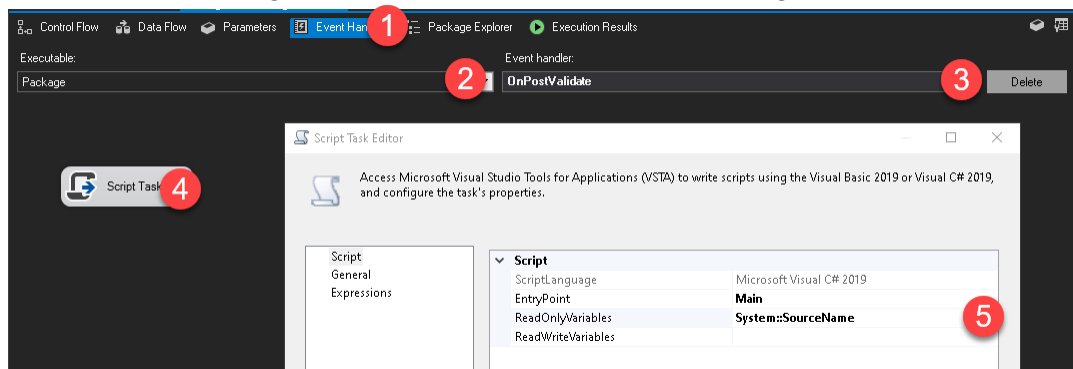
    int iPersonID = Convert.ToInt32(Dts.Variables["User::PersonID"].Value);

    MessageBox.Show("Person ID: " + Convert.ToString(iPersonID));
    if (iPersonID == 2)
    {
        Dts.TaskResult = (int)ScriptResults.Failure;
    }
    else
    {
        Dts.TaskResult = (int)ScriptResults.Success;
    }
}
```

```
int iPersonID = Convert.ToInt32(Dts.Variables["User::PersonID"].Value);
MessageBox.Show("Person ID: " + Convert.ToString(iPersonID));
if (iPersonID == 2)
{
    Dts.TaskResult = (int)ScriptResults.Failure;
}
else
{
    Dts.TaskResult = (int)ScriptResults.Success;
}
```

13. After setting up the script test, it out. It should come back with two messages and fail because of result status returned from script.

14. Next add the following steps for each of the events under package.

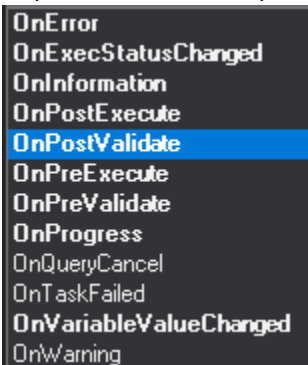


- Go to Event Handler under package.
- Select Package from Executable.
- Select first event in list.
- Create Script Task.
- In script task pass in ReadOnlyVariable, System::SourceName.
- Create the following script.

```
public void Main()
{
    // TODO: Add your code here
    //System::SourceName, System::CreatorName
    MessageBox.Show("OnPostValidate: SourceName [" + Dts.Variables["System::SourceName"].Value + "]");
    Dts.TaskResult = (int)ScriptResults.Success;
}
```

```
MessageBox.Show("OnPostValidate: SourceName [" +
    Dts.Variables["System::SourceName"].Value + "]");
```

- Repeat the above steps for each event under Package.



15. Execute the package and review what order the events are raised. Notice how events are bubbled up from deepest execution "Script Task" in Container to Package level.