



UNIVERSIDAD PRIVADA DE TACNA
FACULTAD DE INGENIERIA
ESCUELA PROFESIONAL DE INGENIERIA DE
SISTEMAS

TITULO:

PRACTICA DE LABORATORIO 02: IMPORTACION, DATA FLOW,
TRASLADO DE ARCHIVOS

Curso:

Inteligencia De Negocios

Docente:

Ing. Patrick Cuadros Quiroga

Alumno:

Herrera Amezquita, Derian Francisco

(2017059489)

Tacna - Perú

2021

Índice

| | |
|---|----------|
| 1. Objetivos | 1 |
| 2. Requerimientos | 1 |
| 3. Desarrollo | 1 |
| 3.1. TAREA 1: Importacion de Datos Usando El WIZARD – SQL MANAGMENT . . . | 1 |
| 3.2. TAREA 2: Creamos Nuestro Primer PAQUETE DTSX | 7 |

1. Objetivos

IMPORTAR DATOS USANDO EL WIZARD Y Desarrollar mis primeros PAQUETES DTSX

2. Requerimientos

Conocimientos

Para el desarrollo de esta práctica se requerirá de los siguientes conocimientos básicos:

- Conocimientos básicos de administración de base de datos Microsoft SQL Server.
- Conocimientos básicos de SQL.

Software

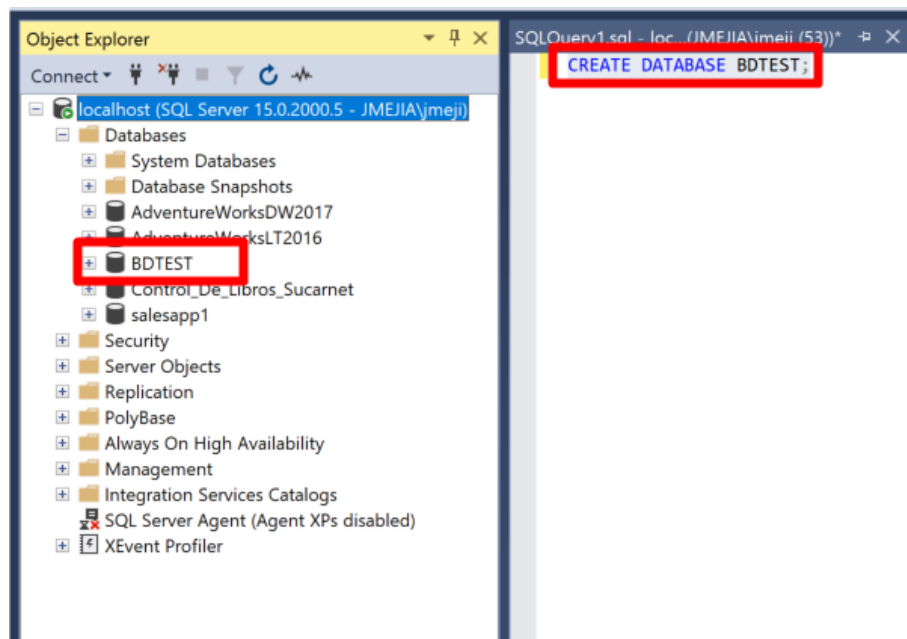
Asimismo se necesita los siguientes aplicativos:

- Microsoft SQL Server 2016 o superior
- Base de datos AdventureWorksLT2012 o superior
- SQL Server Intergration Services
- BD Adventure Work(OLTP Y DATAWAREHOUSE)

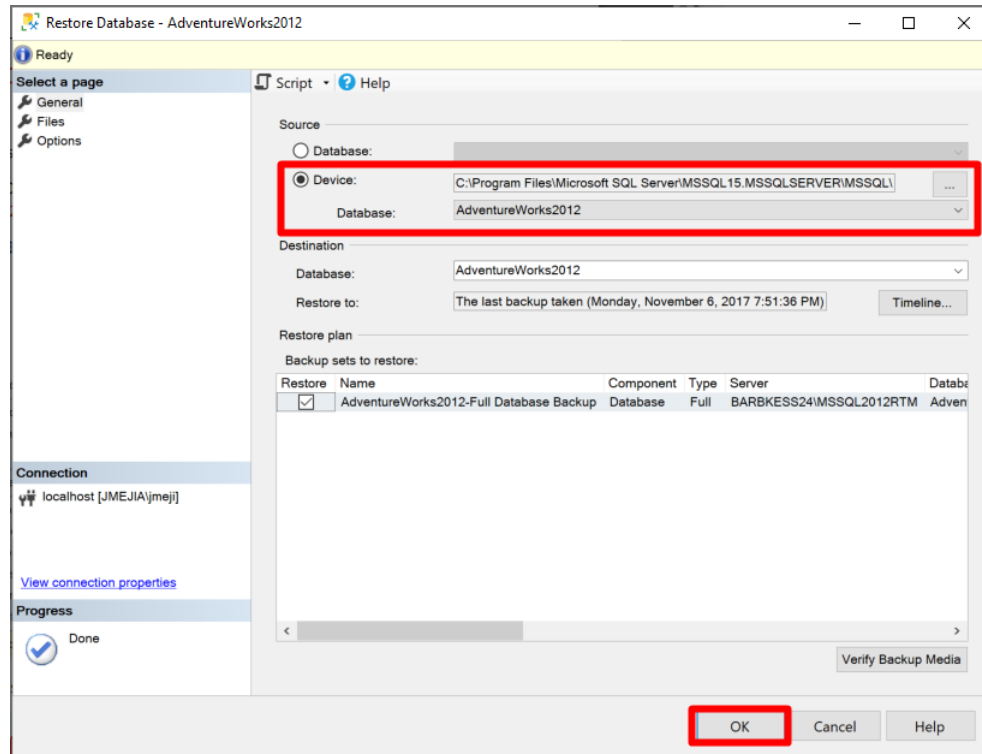
3. Desarrollo

3.1. TAREA 1: Importacion de Datos Usando El WIZARD – SQL MANAGMENT

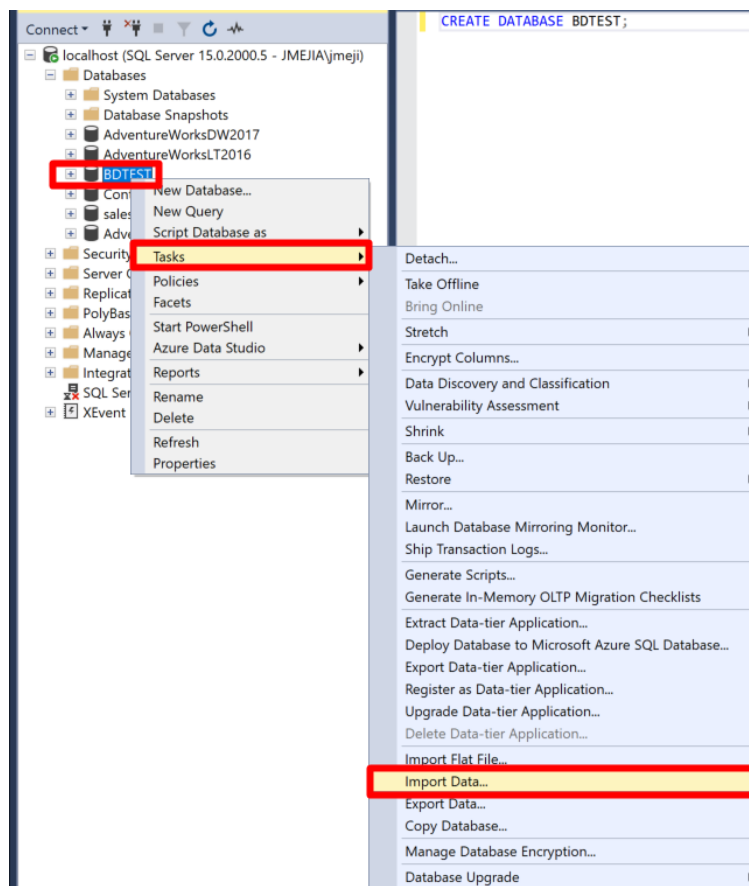
1. Crearemos una base de datos llamada BDTEST



2. Importamos la base de datos desde AdventureWorks.



3. Escribir el Servidor y seleccionar la base de datos



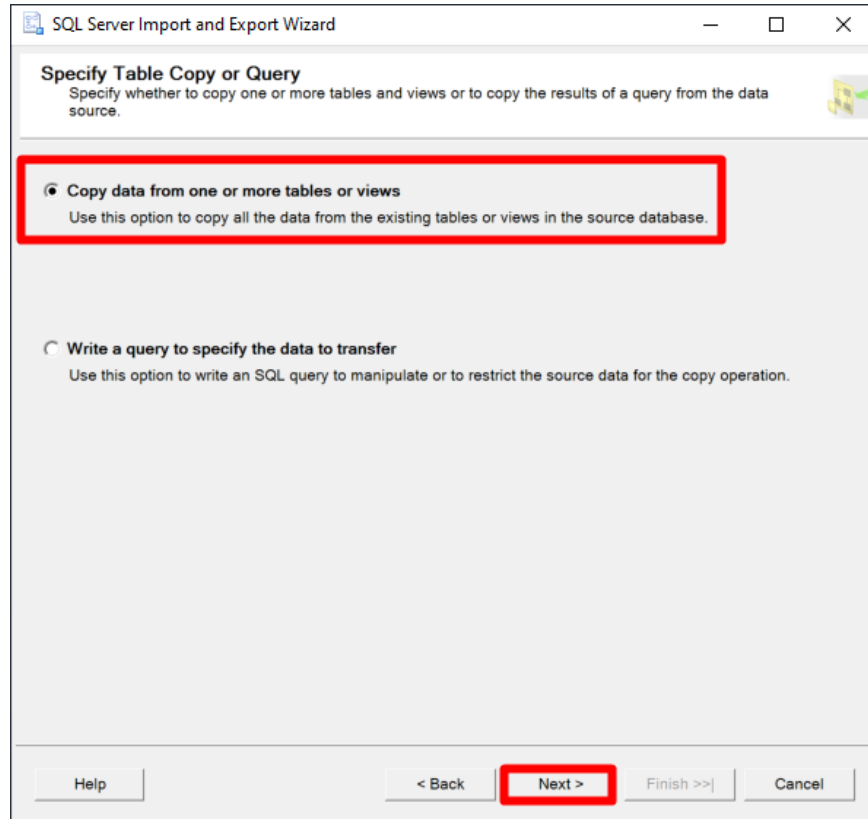
4. Data Source: La base de donde vamos a importar

The screenshot shows the 'Choose a Data Source' step of the SQL Server Import and Export Wizard. The window title is 'SQL Server Import and Export Wizard'. The main heading is 'Choose a Data Source' with the instruction 'Select the source from which to copy data.' Below this, there are three main sections: 'Data source:', 'Server name:', and 'Authentication'. The 'Data source:' dropdown is set to 'SQL Server Native Client 11.0'. The 'Server name:' dropdown is set to 'localhost'. The 'Authentication' section has two radio buttons: 'Use Windows Authentication' (selected) and 'Use SQL Server Authentication'. Below the authentication section, there is a 'Database:' dropdown set to 'AdventureWorks2012' and a 'Refresh' button. At the bottom of the window, there are navigation buttons: 'Help', '< Back', 'Next >' (highlighted with a red box), 'Finish >>', and 'Cancel'.

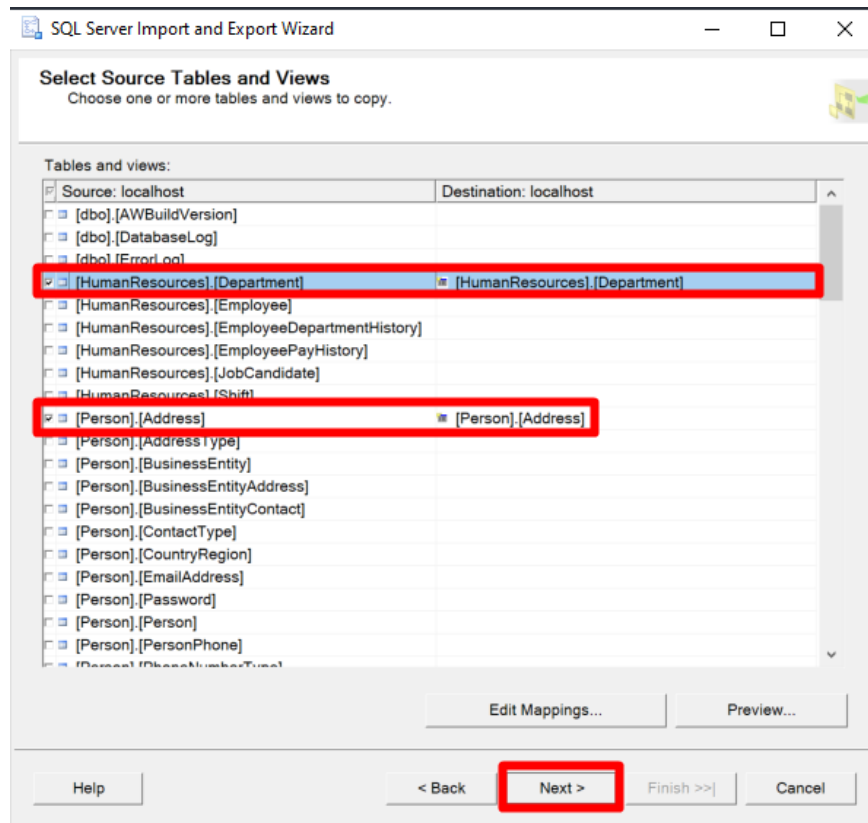
5. Destination: La Base donde vamos a cargar los datos

The screenshot shows the 'Choose a Destination' step of the SQL Server Import and Export Wizard. The window title is 'SQL Server Import and Export Wizard'. The main heading is 'Choose a Destination' with the instruction 'Specify where to copy data to.' Below this, there are three main sections: 'Destination:', 'Server name:', and 'Authentication'. The 'Destination:' dropdown is set to 'SQL Server Native Client 11.0'. The 'Server name:' dropdown is set to 'localhost'. The 'Authentication' section has two radio buttons: 'Use Windows Authentication' (selected) and 'Use SQL Server Authentication'. Below the authentication section, there is a 'Database:' dropdown set to 'BDTEST' and a 'Refresh' button. At the bottom of the window, there are navigation buttons: 'Help', '< Back', 'Next >' (highlighted with a red box), 'Finish >>', and 'Cancel'.

6. Especificar si se realizará copia o consulta, en este caso elejimos copia.



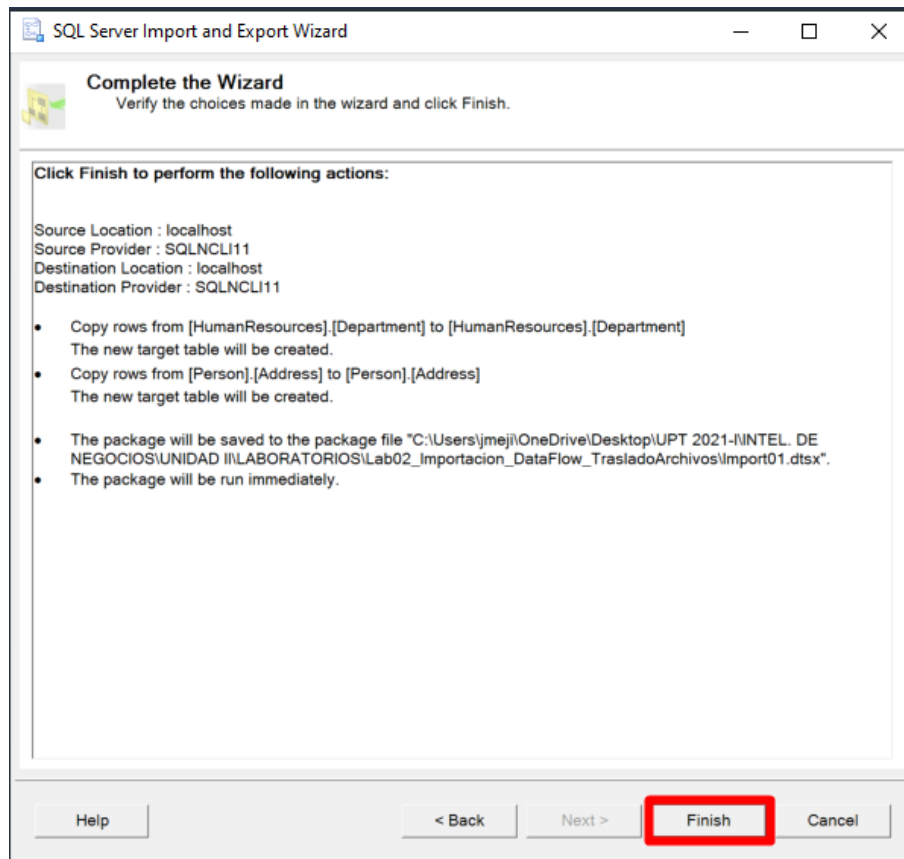
7. Seleccionamos las tablas HumanResources y Person



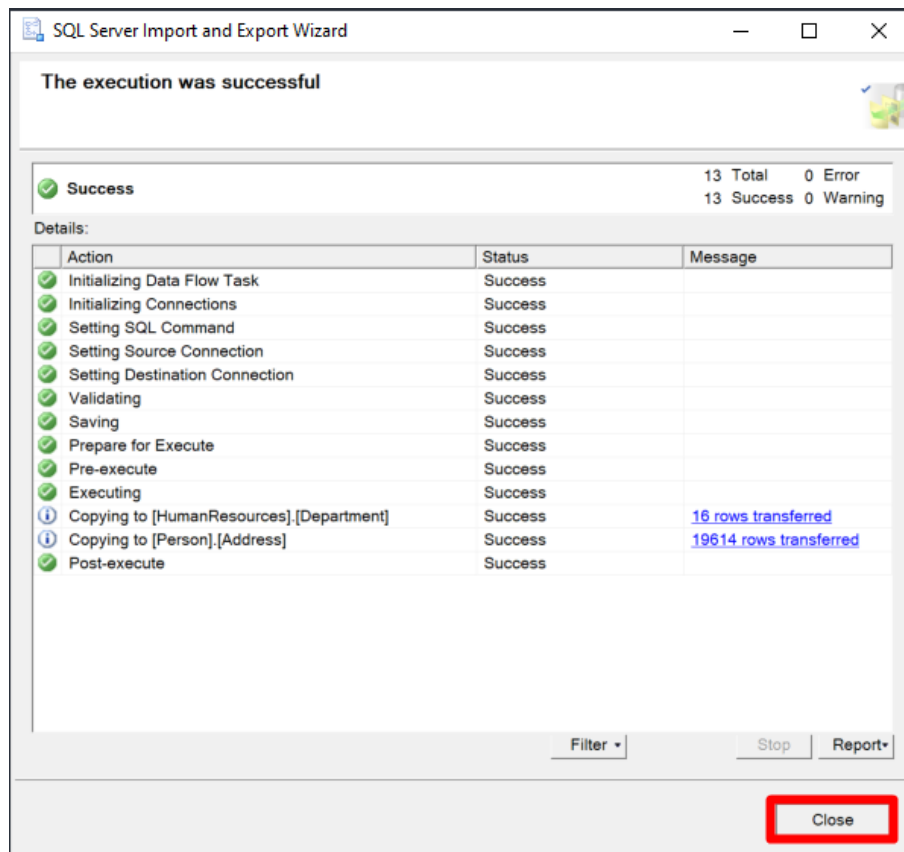
8. Guardamos y ejecutamos.

The screenshot shows the 'Save and Run Package' step of the SQL Server Import and Export Wizard. The window title is 'SQL Server Import and Export Wizard'. The main heading is 'Save and Run Package' with the instruction 'Indicate whether to save the SSIS package.' Below this, there are two checked checkboxes: 'Run immediately' and 'Save SSIS Package'. Under 'Save SSIS Package', there are two radio buttons: 'SQL Server' (unselected) and 'File system' (selected). Below these, there is a 'Package protection level:' section with a dropdown menu set to 'Encrypt sensitive data with user key'. There are also input fields for 'Password:' and 'Retype password:'. At the bottom, there are buttons for 'Help', '< Back', 'Next >' (highlighted with a red box), 'Finish >>', and 'Cancel'.

The screenshot shows the 'Save SSIS Package' step of the SQL Server Import and Export Wizard. The window title is 'SQL Server Import and Export Wizard'. The main heading is 'Save SSIS Package' with the instruction 'You can save the SSIS package for reuse. You must save the package to schedule it for later execution.' Below this, there are input fields for 'Name:' (containing 'Import01') and 'Description:' (containing 'SSIS Package Description'). The 'Target:' is set to 'File System'. Below these, there is a 'File name:' section with a text box containing the path 'C:\Users\jmej\OneDrive\Desktop\UPT 2021-INTEL. DE NEGOCIOS\UNIDAD I\LABORATO' and a 'Browse...' button. At the bottom, there are buttons for 'Help', '< Back', 'Next >' (highlighted with a red box), 'Finish >>', and 'Cancel'.

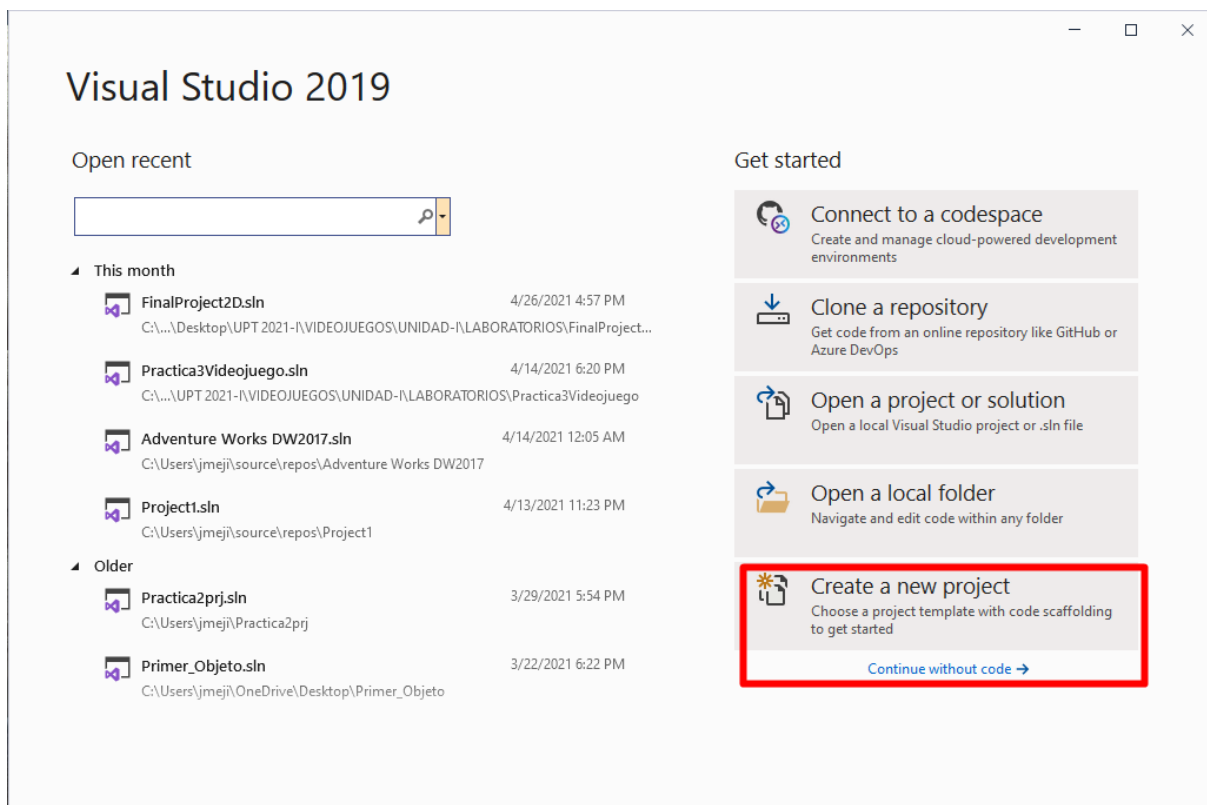
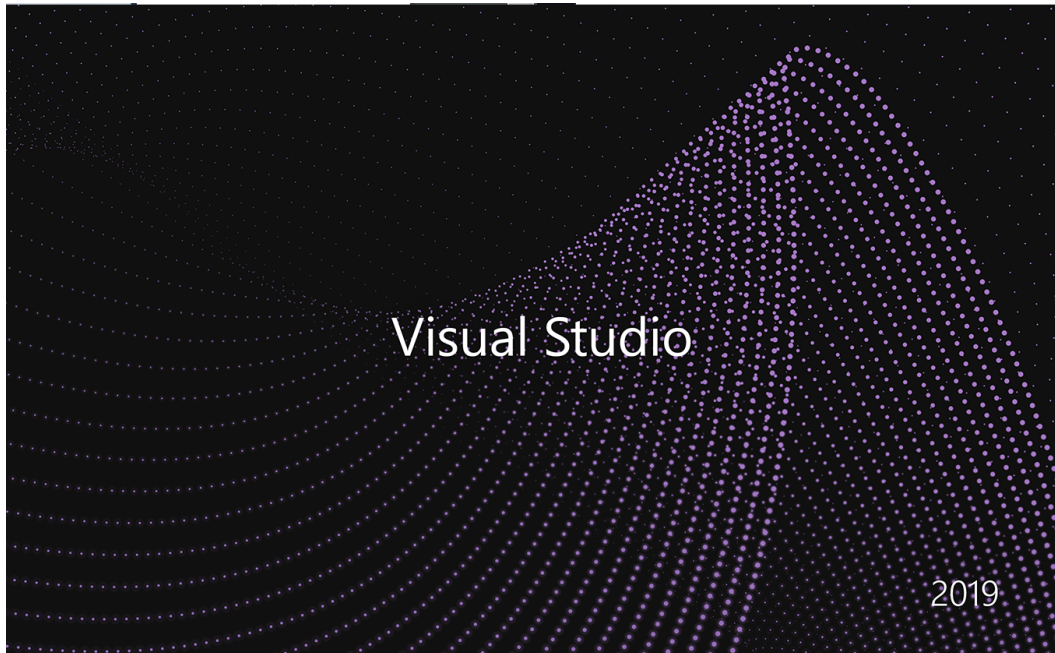


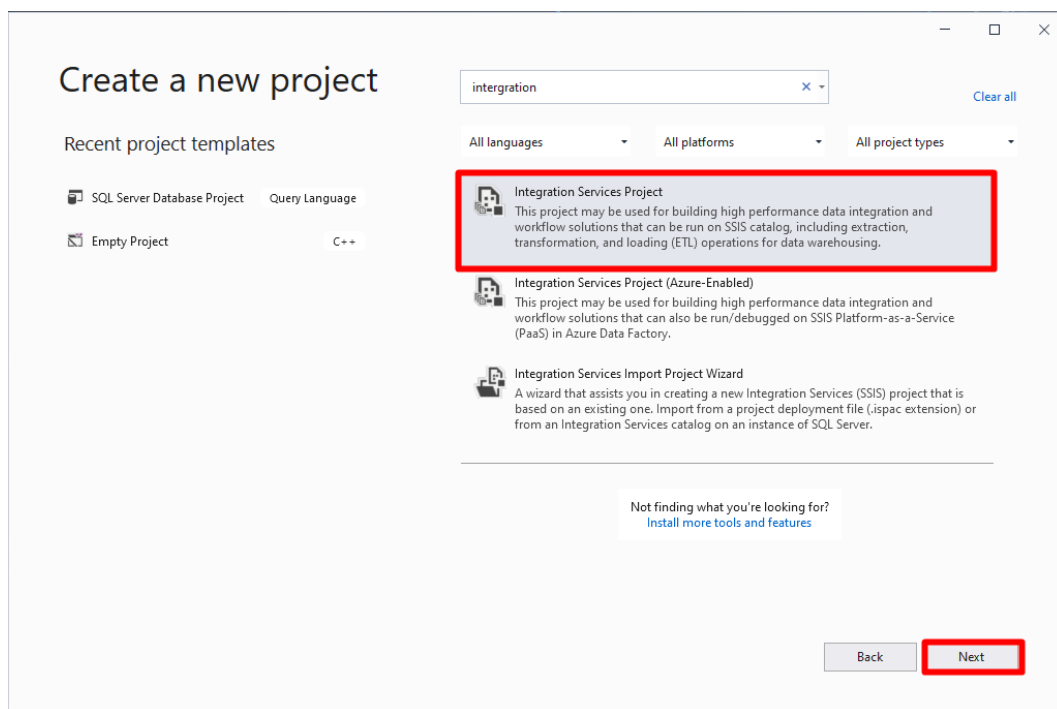
9. Se observa que se realizó correctamente la ejecución



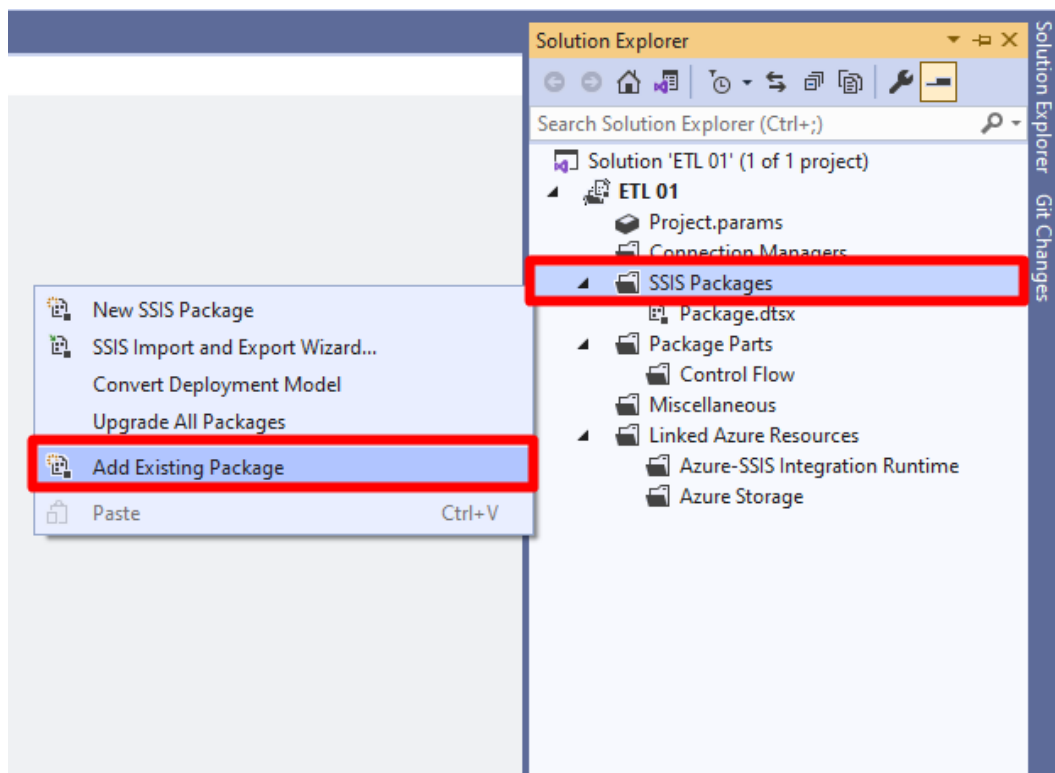
3.2. TAREA 2: Creamos Nuestro Primer PAQUETE DTSX

1. Abrimos un Nuevo Proyecto en nuestro Visual Basic





2. En la ventana nueva, seccion Solucion Explorer, Agrego el paquete generado antes.



Add Copy of Existing Package

Specify the location of the package to be added.

Package location: File System

Server:

Authentication

Authentication type: Windows Authentication

User name:

Password:

Package path: C:\Users\jmeji\OneDrive\Desktop\UPT 2021-I\INTEL. D ...

OK Cancel Help

SSIS Toolbox

Search SSIS Toolbox

Favorites

- Data Flow Task
- Execute SQL Task

Common

- Analysis Services Process Task
- Bulk Insert Task
- Data Profiling Task
- Execute Package Task
- Execute Process Task
- Expression Task
- File System Task
- FTP Task
- Hadoop File System Task
- Hadoop Hive Task
- Hadoop Pig Task
- Script Task
- Send Mail Task
- Web Service Task
- XML Task

Azure

Containers

Data Flow Task

Moves data between sources and destinations while transforming and cleaning. Data can be moved between tables and files while...

Find Samples

Control Flow

Preparation SQL Task 1

Data Flow Task 1

Package Explorer

Search Solution Explorer (Ctrl+;)

Solution 'ETL 01' (1 of 1 project)

- ETL 01
 - Project.params
 - Connection Managers
 - SSIS Packages
 - Import01.dtsx
 - Package.dtsx
 - Package Parts
 - Control Flow
 - Miscellaneous
 - Linked Azure Resources
 - Azure-SSIS Integration Runtime
 - Azure Storage

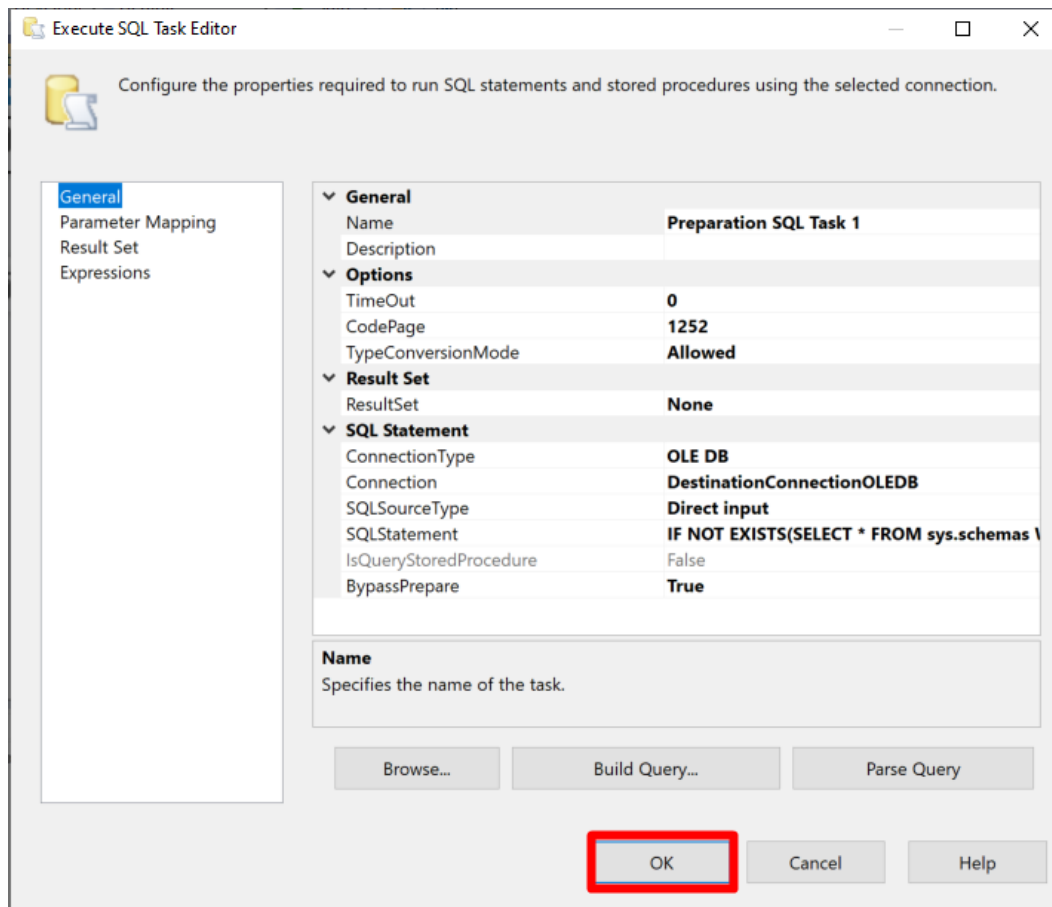
Connection Managers

DestinationConnectionOLEDB SourceConnectionOLEDB

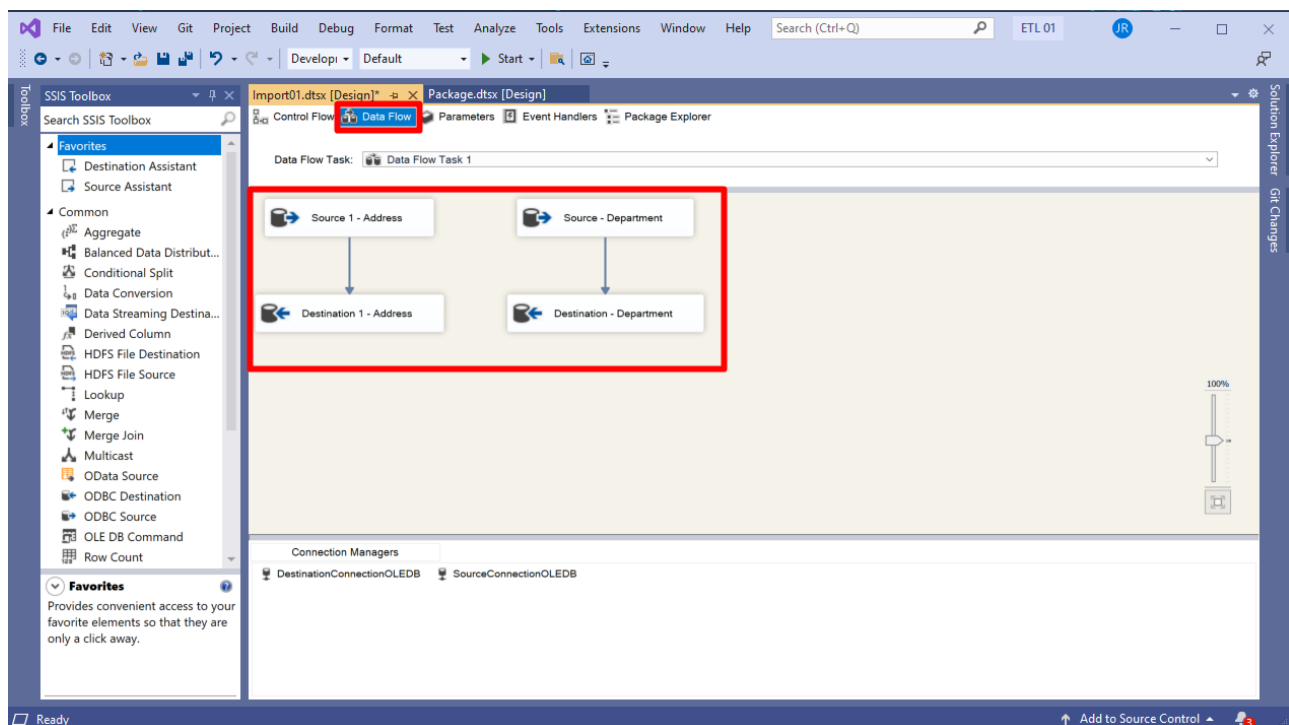
This item does not support previewing

Add to Source Control

3. Observamos las características obtenidas

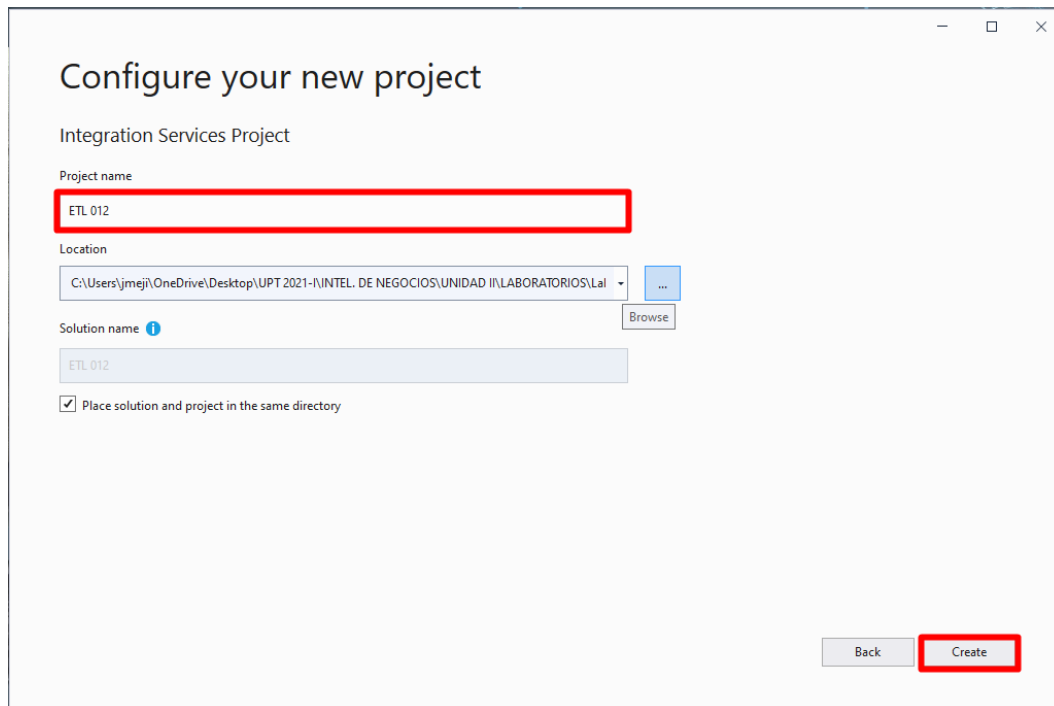


4. En la siguiente ventana mostramos el paquete que se ha importado.

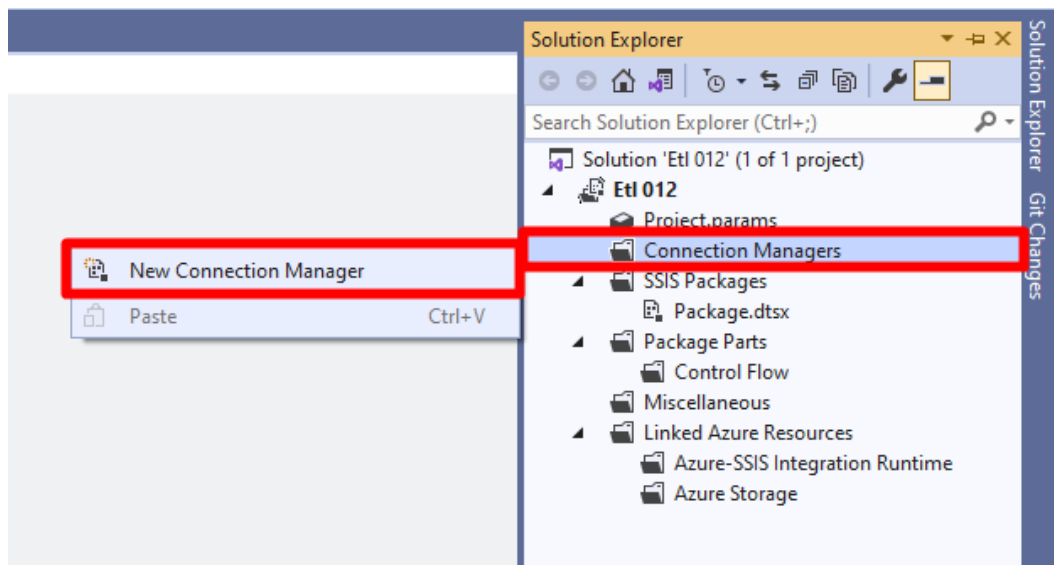


MI PRIMER PAQUETE, Muestra la cantidad de Registros de una Tabla

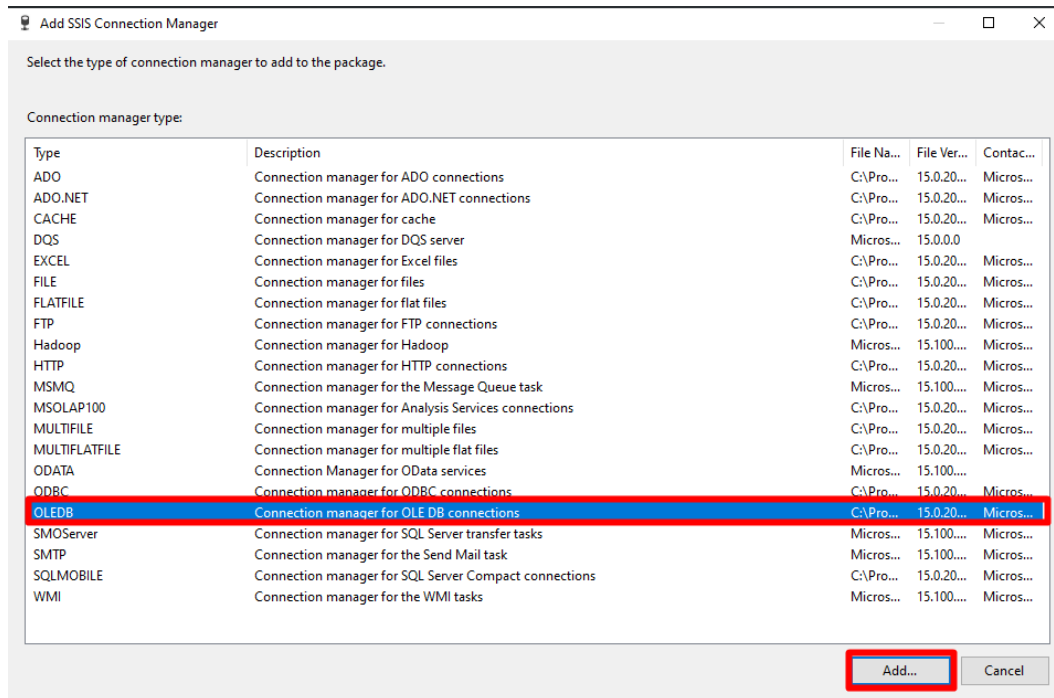
1. Creacion de Proyecto Intergration Services.



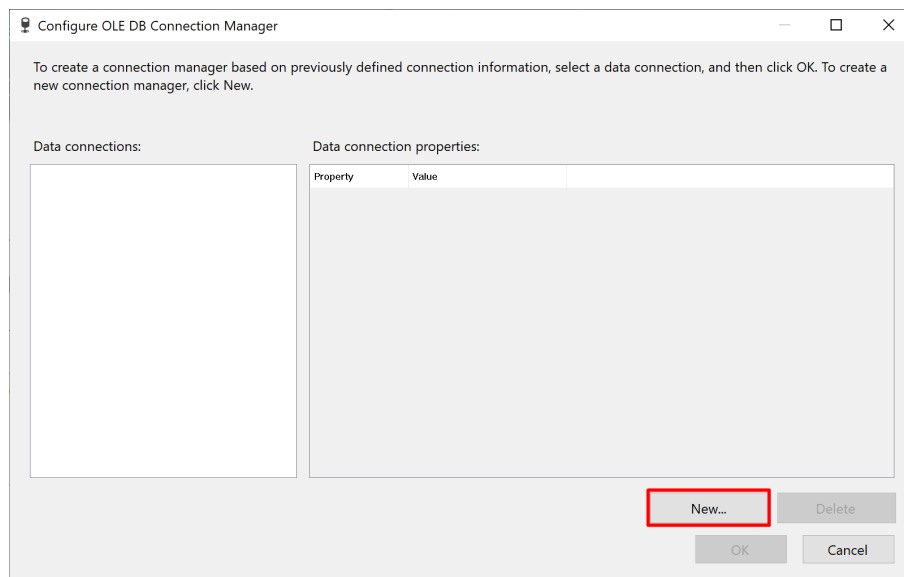
2. Creacion una conexion OLEDB para la base de datos AdventureWorks.



3. Selección de OLEDB como Driver de Conexión BD



4. Insertar el Server, Base de Datos y Testear.



Connection Manager

Provider: Native OLE DB\SQL Server Native Client 11.0

Connection

Server name: localhost Refresh

Log on to the server

Authentication: Windows Authentication

User name: Password: Save my password

Connect to a database

Select or enter a database name: AdventureWorks2012

Attach a database file: Browse... Logical name:

Test Connection OK Cancel Help

Connection Manager

Test connection succeeded.

Copy message OK

Configure OLE DB Connection Manager

To create a connection manager based on previously defined connection information, select a data connection, and then click OK. To create a new connection manager, click New.

Data connections:

localhost.AdventureWorks2012

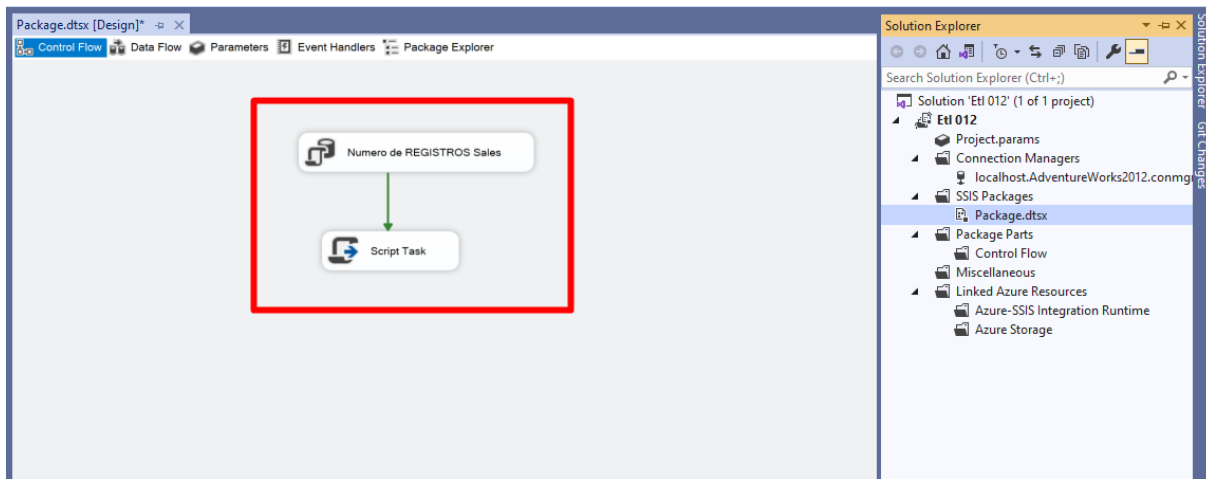
Data connection properties:

| Property | Value |
|---------------------|--------------------|
| Data Source | localhost |
| Initial Catalog | AdventureWorks2012 |
| Integrated Security | SSPI |
| Provider | SQLNCLI11.1 |

New... Delete OK Cancel

Insertar: Execute SQL Task y Script Task

1. Insertar los controles, Execute SQL Task Y Script Task.



2. Seleccionar:

ResultSet = "Single row".

ConnectionType=".OLE DB" junto con la conexión ya configurada.

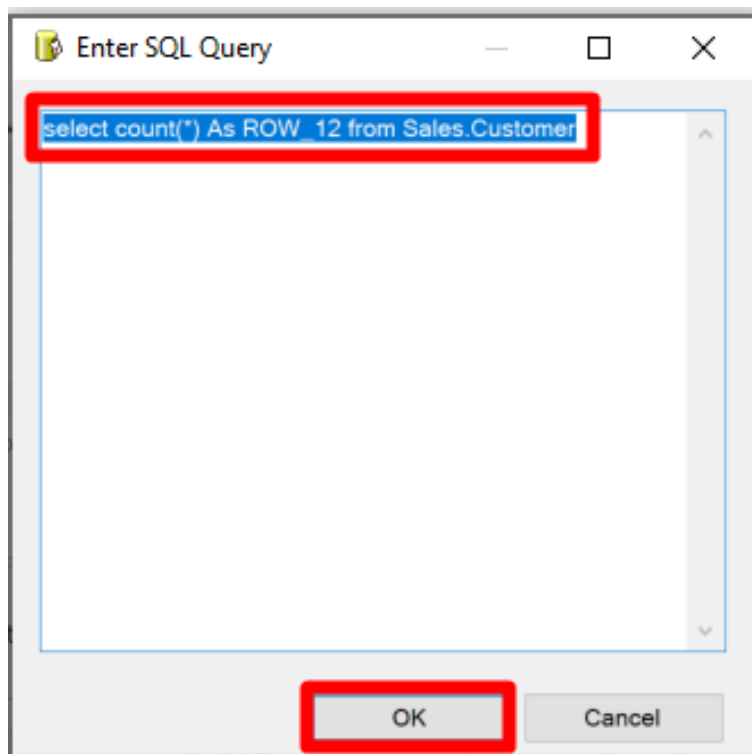
Digitar la Query.

The 'Execute SQL Task Editor' dialog box is shown. The 'General' tab is selected. The following fields are highlighted with red rectangles:

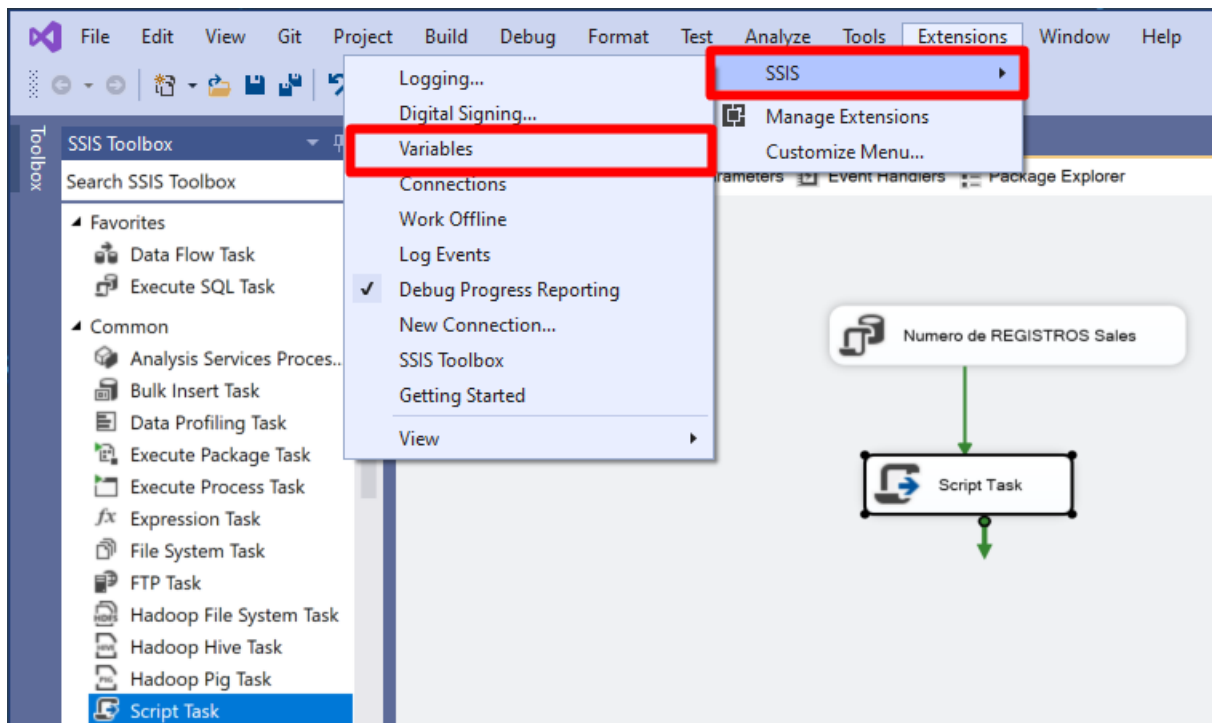
- Name:** Numero de REGISTROS Sales
- Description:** Execute SQL Task
- Options:** TimeOut: 0, CodePage: 1252, TypeConversionMode: Allowed
- Result Set:** ResultSet: Single row
- SQL Statement:** ConnectionType: OLE DB, Connection: localhost.AdventureWorks2012, SQLSourceType: Direct input, SQLStatement: select count(*) As ROW_12 from Sales.Custo, IsQueryStoredProcedure: False, BypassPrepare: True

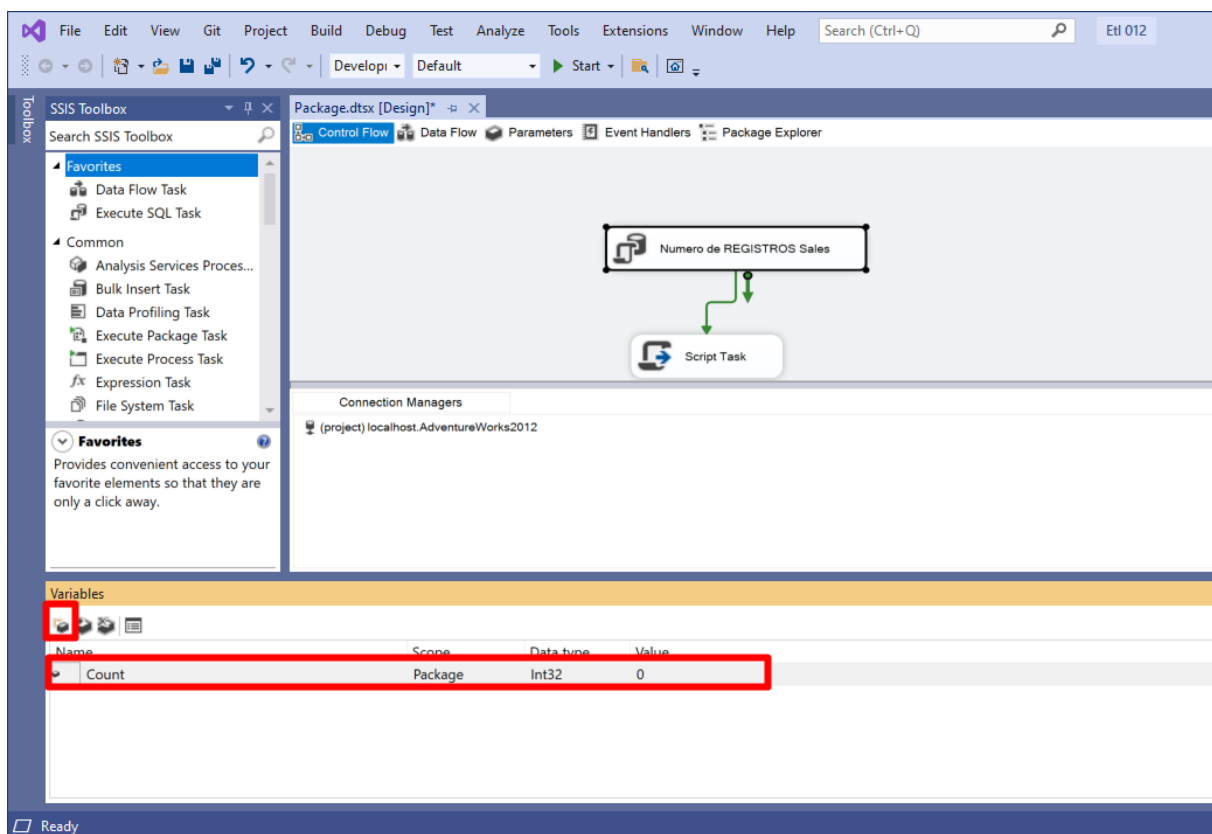
The 'BypassPrepare' section indicates: Indicates whether the task should prepare the query before executing it.

Buttons at the bottom: Browse..., Build Query..., Parse Query, OK, Cancel, Help.

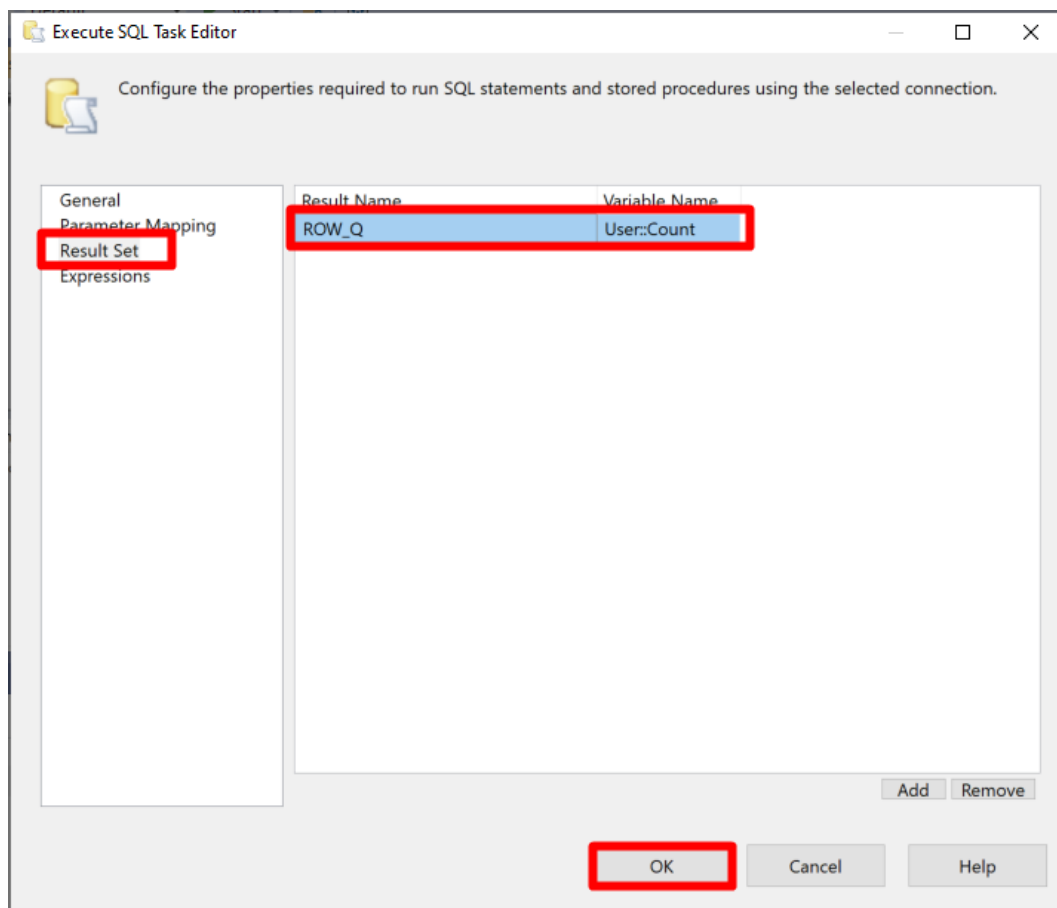


3. Crear la Variable.

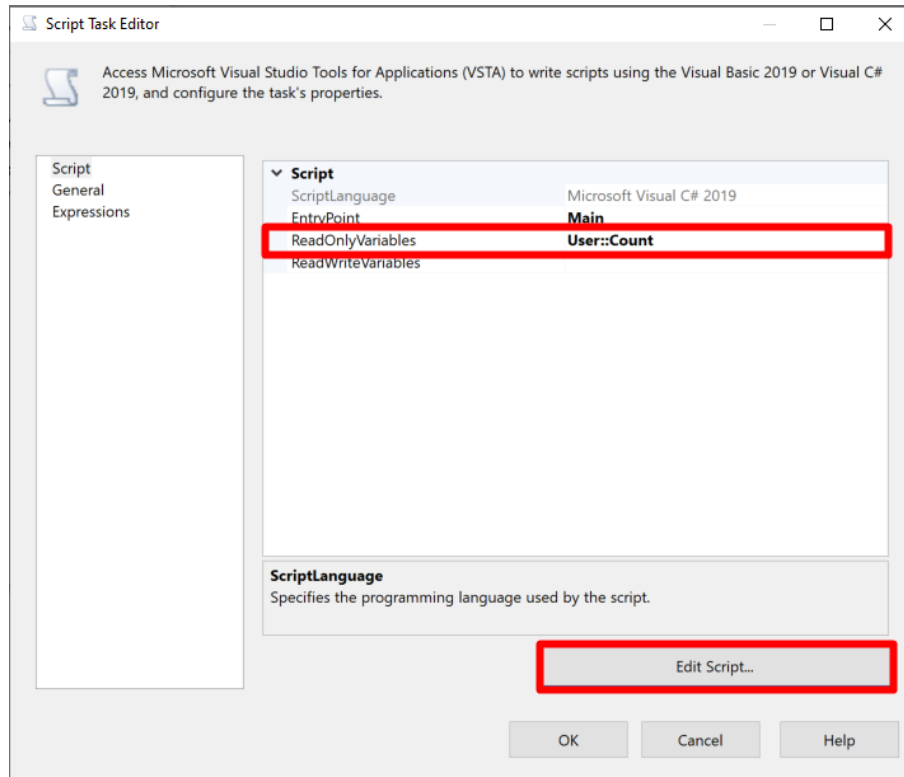




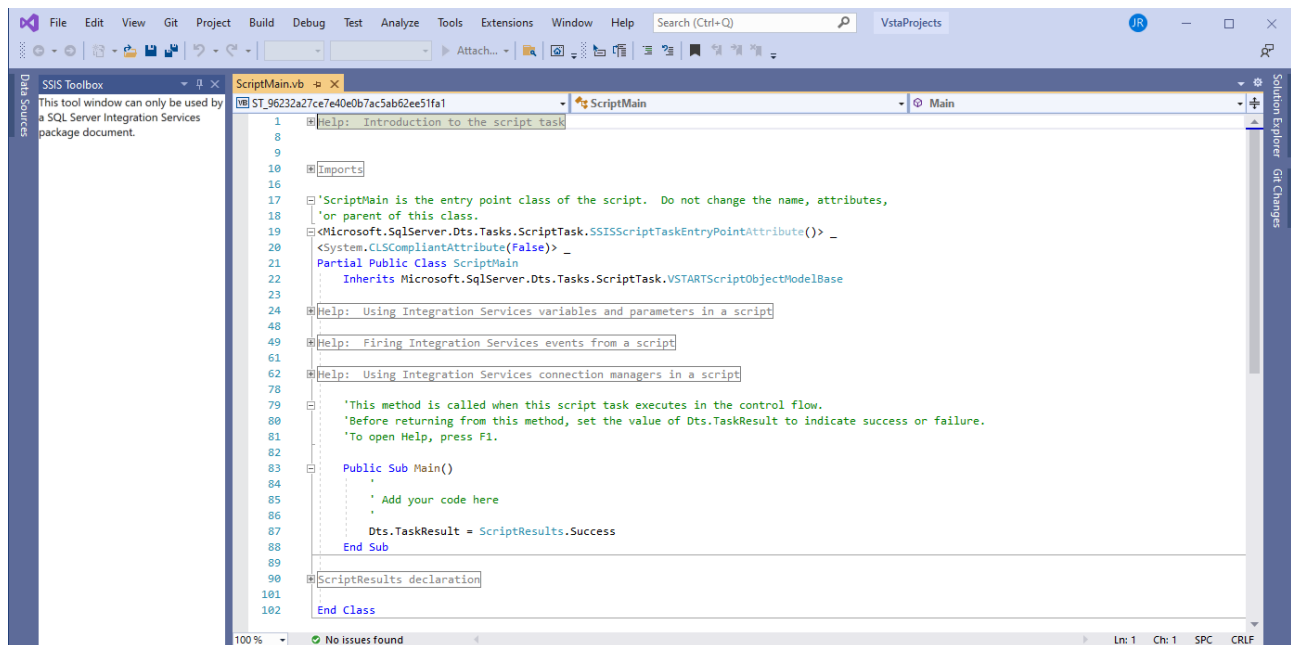
4. Asignar la variable en “Numero de Registros Sales”.



5. EDITAR COMPONENTE “Script Task Editor”



6. Insertar este código “MsgBox(Dts.Variables(0).Value, MsgBoxStyle.Information)”



```
ScriptMain.vb* - x
ST_96232a27ce7e40e0b7ac5ab62ee51fa1 - ScriptMain - Main
1 Help: Introduction to the script task
8
9
10 Imports
16
17 'ScriptMain is the entry point class of the script. Do not change the name, attributes,
18 'or parent of this class.
19 <Microsoft.SqlServer.Dts.Tasks.ScriptTask.SSISScriptTaskEntryPointAttribute()> _
20 <System.CLSCompliantAttribute(False)> _
21 Partial Public Class ScriptMain
22 Inherits Microsoft.SqlServer.Dts.Tasks.ScriptTask.VSTARTScriptObjectModelBase
23
24 Help: Using Integration Services variables and parameters in a script
48
49 Help: Firing Integration Services events from a script
61
62 Help: Using Integration Services connection managers in a script
78
79 'This method is called when this script task executes in the control flow.
80 'Before returning from this method, set the value of Dts.TaskResult to indicate success or failure.
81 'To open Help, press F1.
82
83 Public Sub Main()
84 ' Add your code here
85
86 Dts.TaskResult = ScriptResults.Success
87 MsgBox(Dts.Variables(0).Value, MsgBoxStyle.Information)
88 End Sub
89
90
91 ScriptResults declaration
102
103 End Class
100% No issues found Ln: 103 Ch: 10 SPC CRLF
```

7. Guardamos el proyecto y EJECUTAMOS Y LISTO.

