

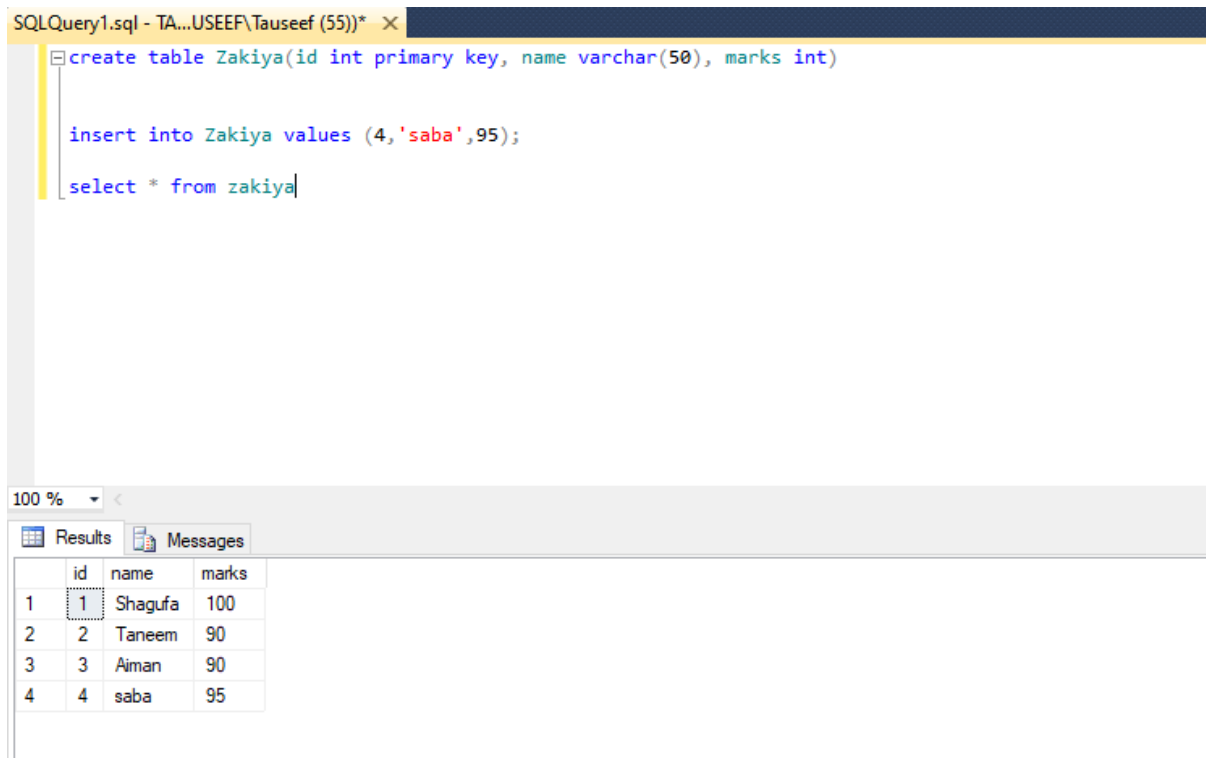
## Experiment 2

**Aim: ETL using SQL Server Integration Service (SSIS)**

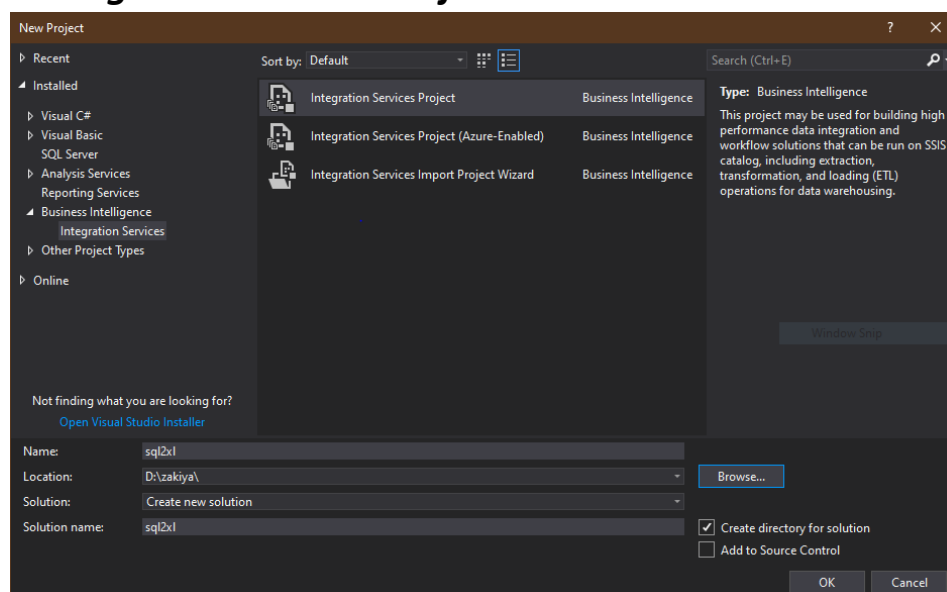
**Theory:**

**SQL Server to Excel:**

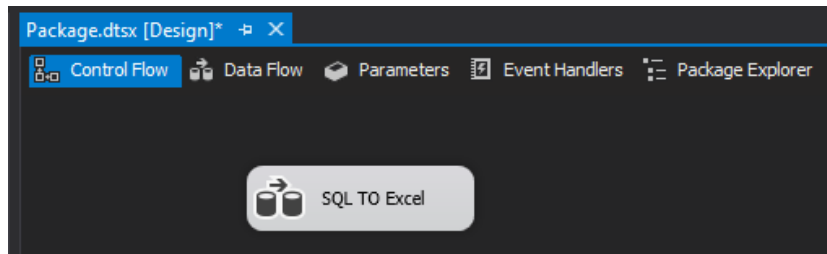
**SQL Server Data: (Input)**



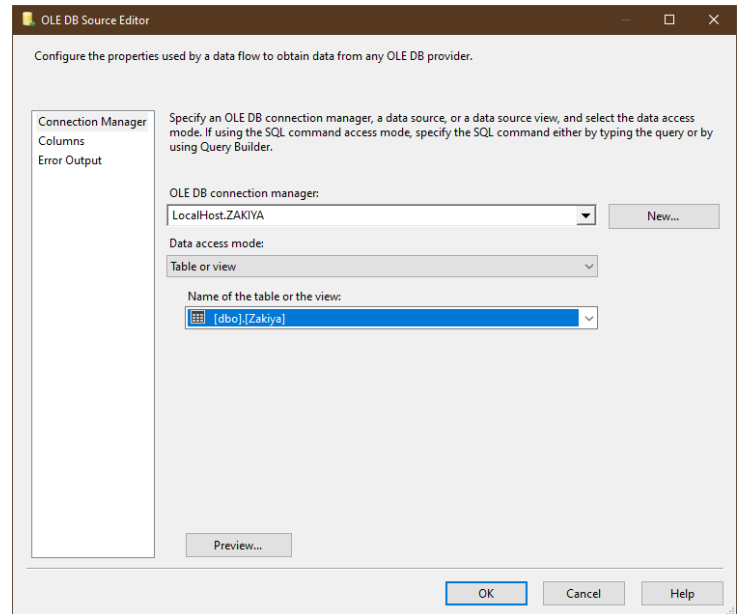
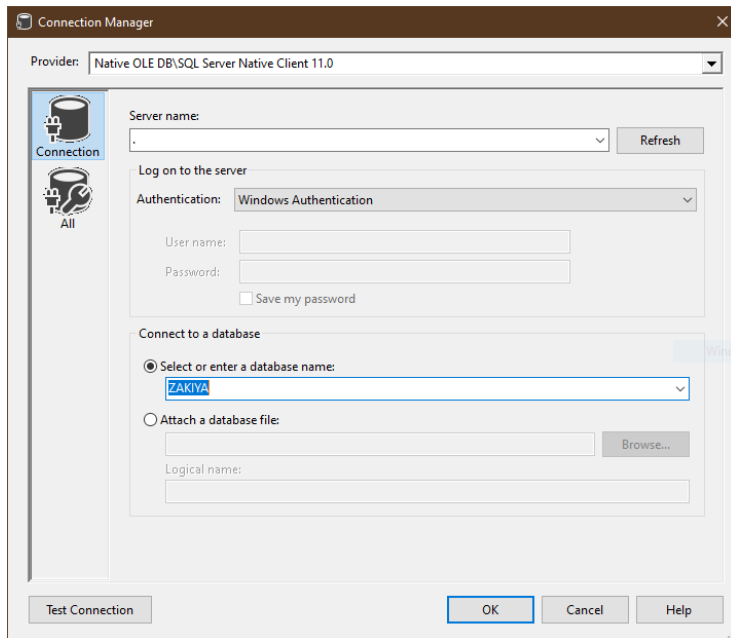
**Create a New Integration Service Project:**



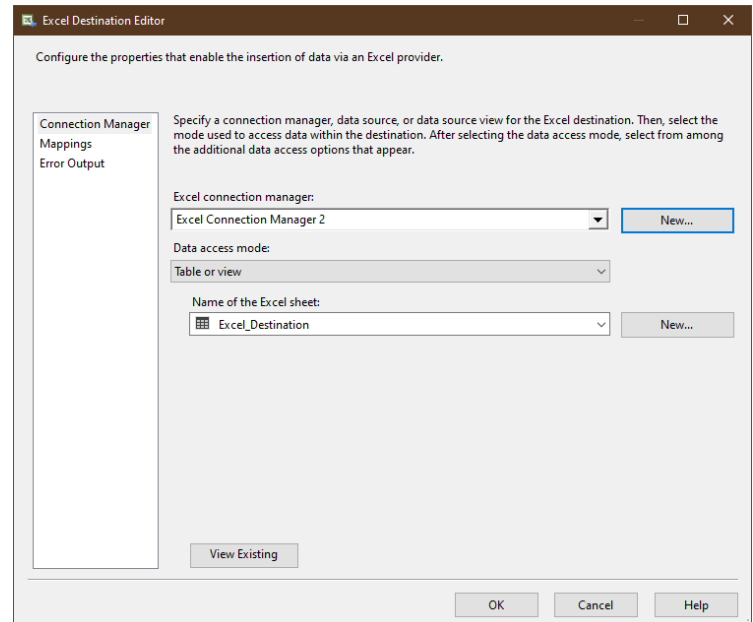
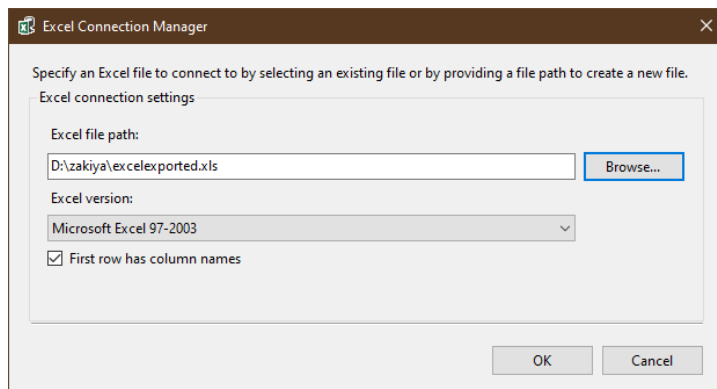
## Create a Data Flow Task:



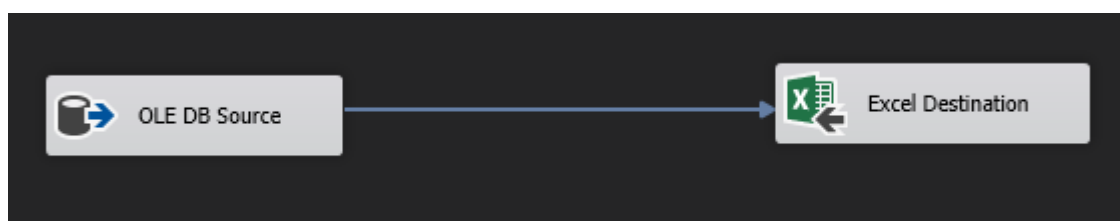
## Create an SQL Connection:



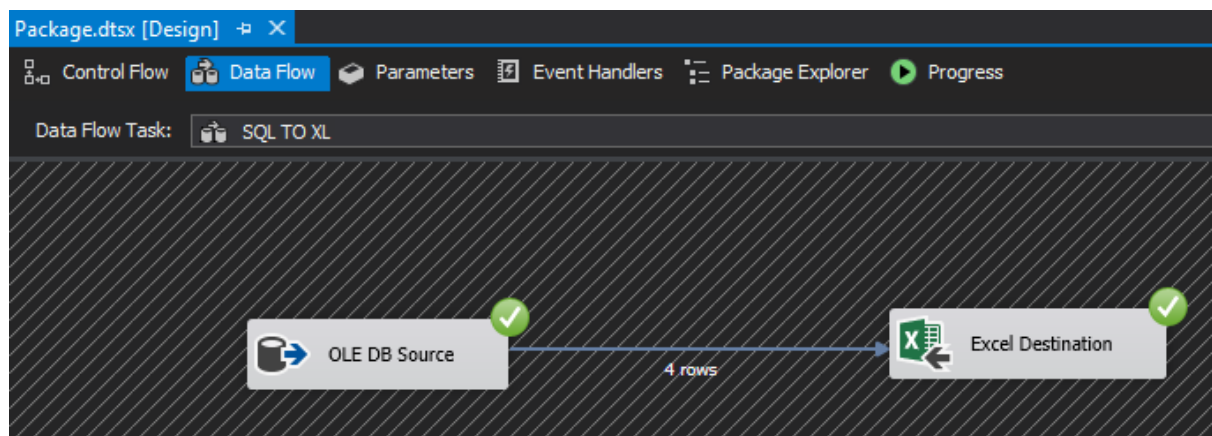
## Create an Excel Connection:



## Data Flow Task after Setup:



## Executing the Data Flow Task:



## Excel Data: (Output)

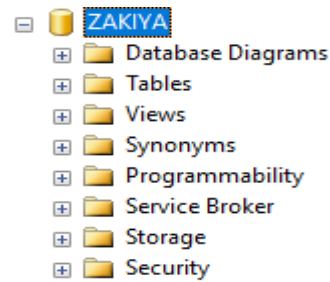
id	name	marks
1	Shagufa	100
2	Taneem	90
3	Aiman	90
4	saba	95

## Excel to SQL Server:

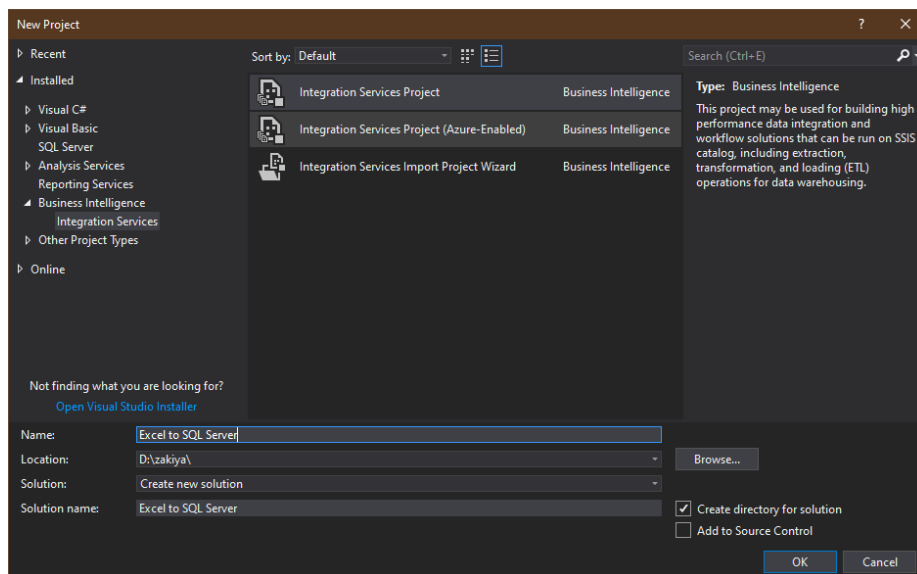
### Excel Data: (Input) (Student)

eid	ename	salary
11	zakiya	30000
22	sara	34000
33	john	20000
44	harry	19000

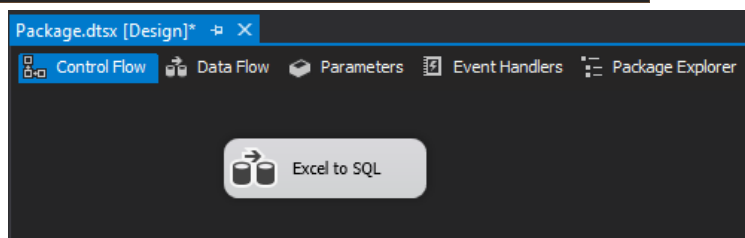
### Create a SQL Database: (Zakiya)



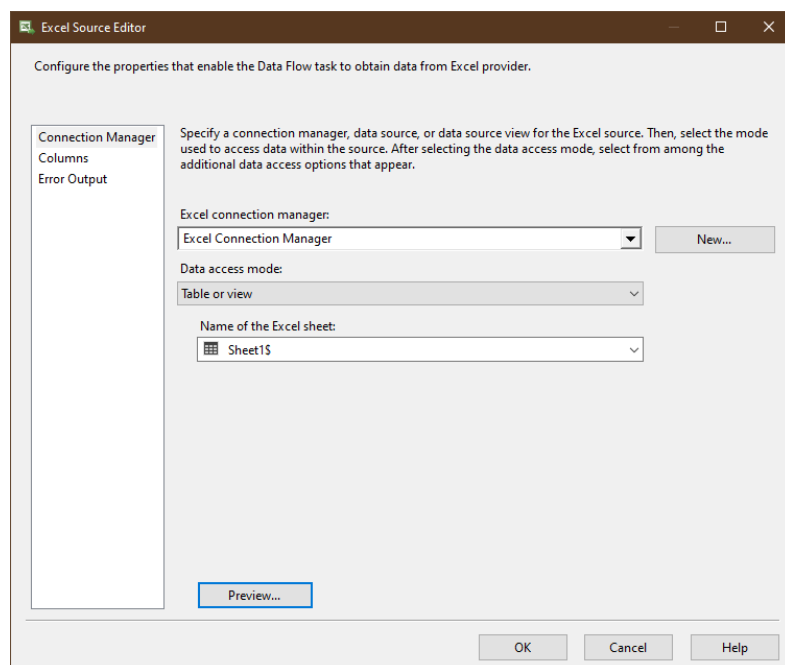
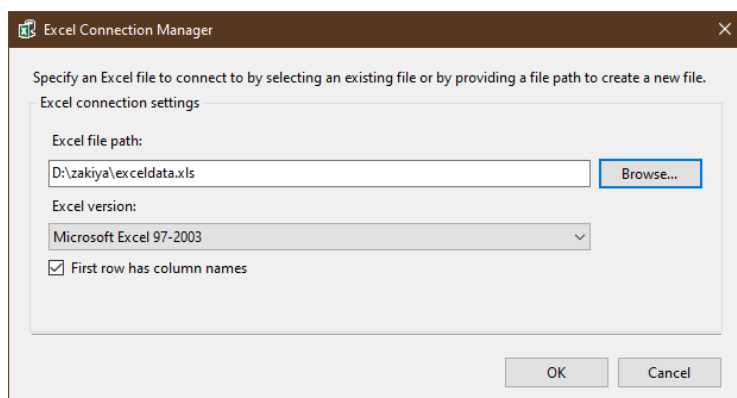
### Create a New Integration Service Project:



### Create a Data Flow Task:



### Create an Excel Connection:



## Create a SQL Connection:

Connection Manager

Provider: Native OLE DB\SQL Server Native Client 11.0

Server name: . 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: ZAKIYA

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

Test Connection OK Cancel Help

OLE DB Destination Editor

Configure the properties used to insert data into a relational database using an OLE DB provider.

Connection Manager Mappings Error Output

Specify an OLE DB connection manager, a data source, or a data source view, and select the data access mode. If using the SQL command access mode, specify the SQL command either by typing the query or by using Query Builder. For fast-load data access, set the table update options.

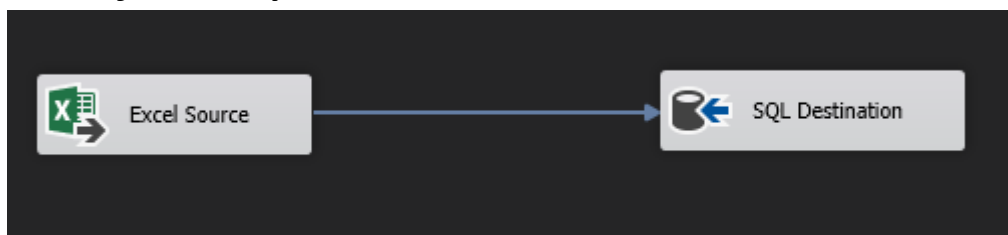
OLE DB connection manager: LocalHost.ZAKIYA 1 New...

Data access mode: Table or view

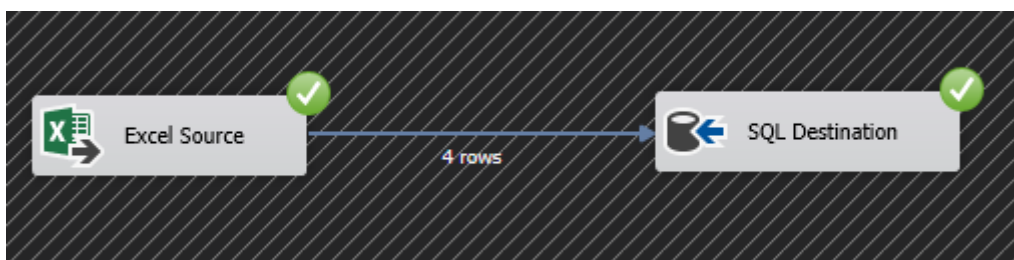
Name of the table or the view: [Employees] New...

View Existing OK Cancel Help

## Data Flow Task after Setup:



## Executing the Data Flow Task:



## SQL Server Data: (Output)

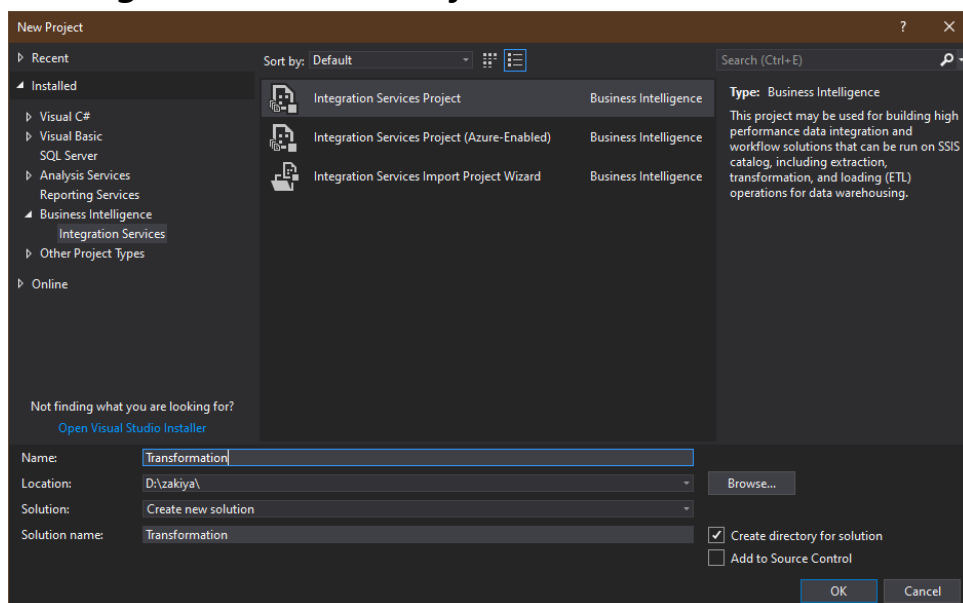
Results		Messages	
	eid	ename	salary
1	11	zakiya	30000
2	22	sara	34000
3	33	john	20000
4	44	hary	19000

## **Data Scripting:**

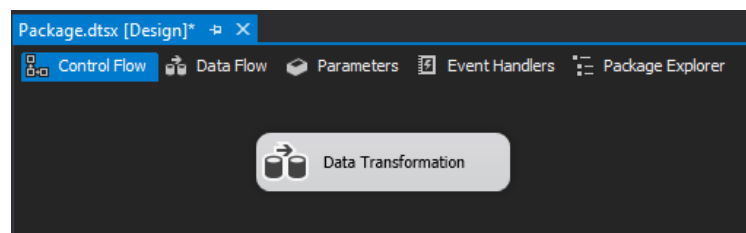
### **Excel Data: (Input)**

patient id	name
101	John
102	Rohan
103	Smith
104	Rayyan
105	Mark

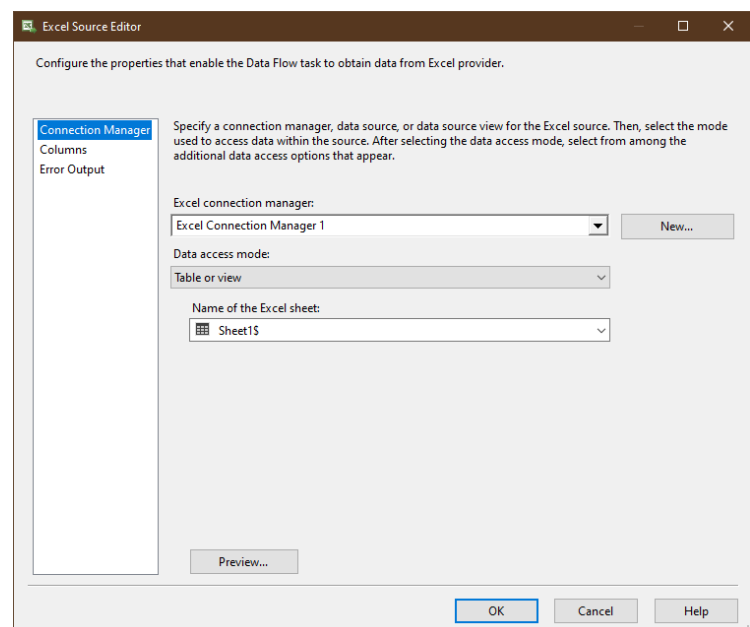
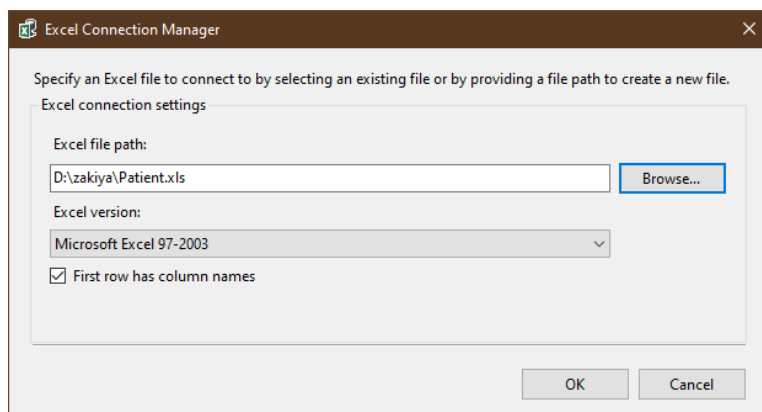
### **Create a New Integration Service Project:**



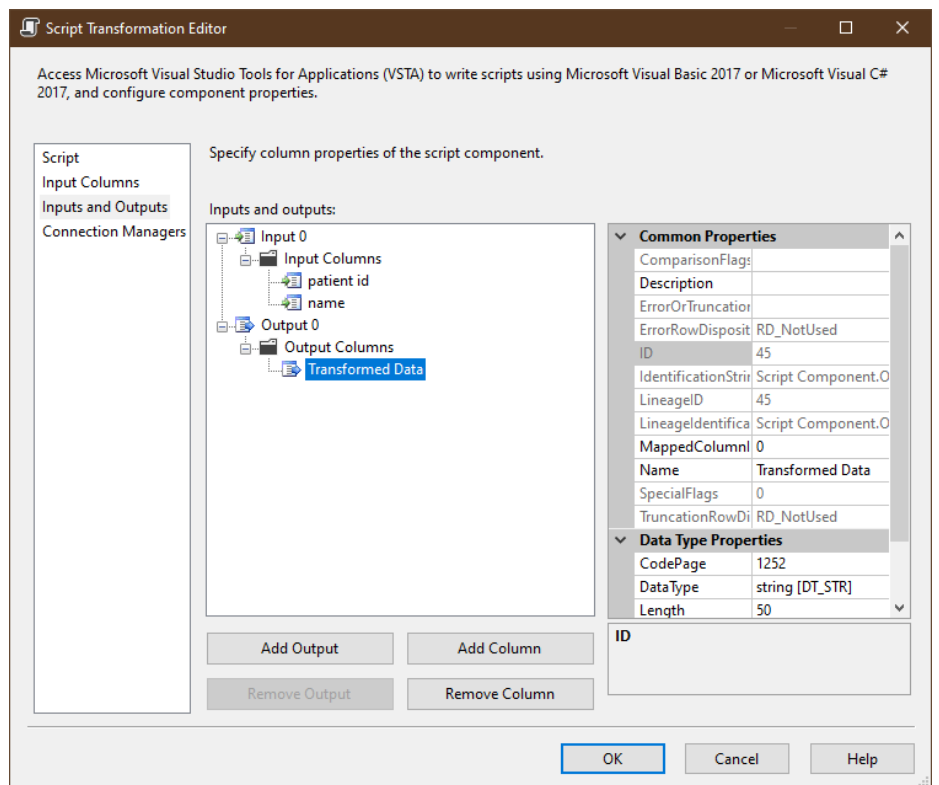
### **Create a Data Flow Task:**



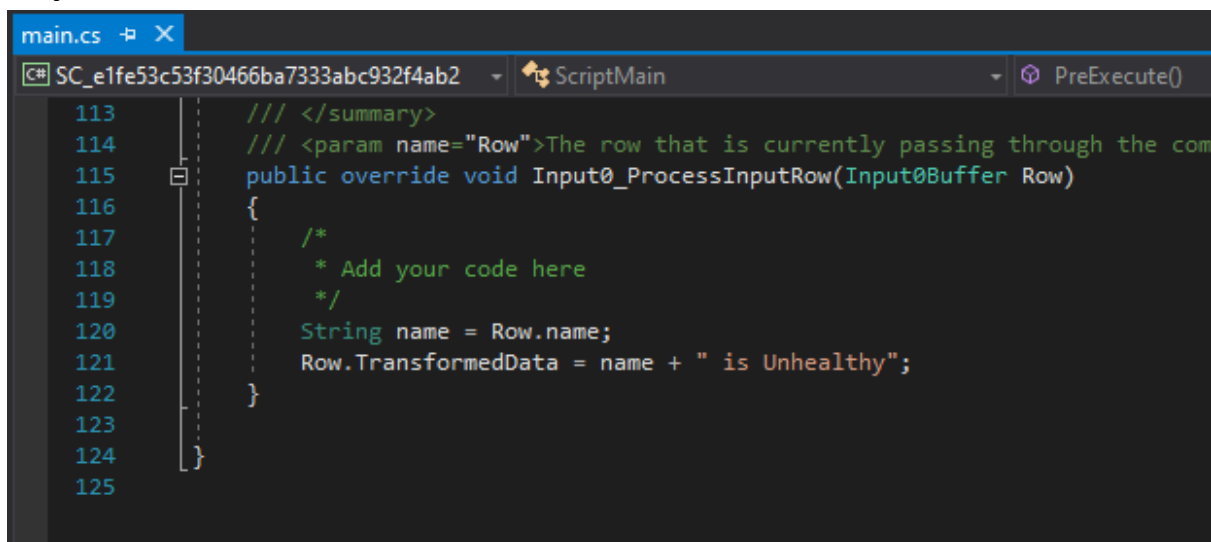
### **Create an Excel Connection:**



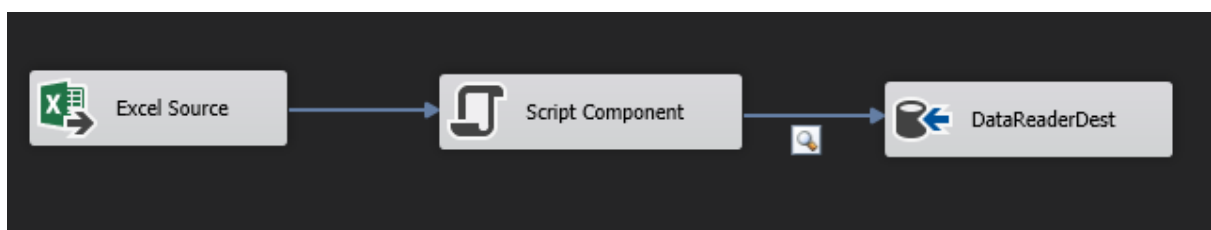
## Script Transformation:



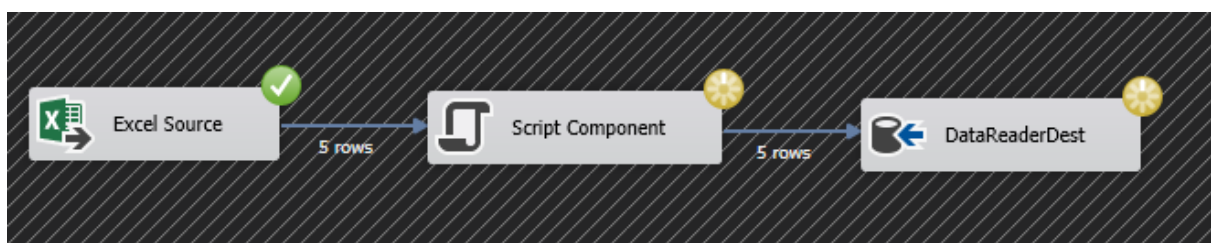
## Edit Script:



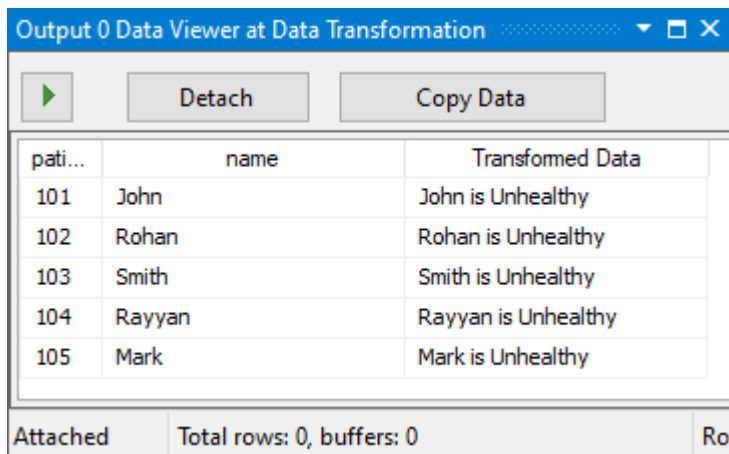
## Data Flow Task after Setup:



## Executing the Data Flow Task:



### ***Data View after Transformation:***



The screenshot shows the 'Output 0 Data Viewer at Data Transformation' window. It features a toolbar with a green play button, a 'Detach' button, and a 'Copy Data' button. Below the toolbar is a table with three columns: 'pati...', 'name', and 'Transformed Data'. The table contains five rows of data. At the bottom of the window, there is a status bar with the text 'Attached', 'Total rows: 0, buffers: 0', and 'Ro'.

pati...	name	Transformed Data
101	John	John is Unhealthy
102	Rohan	Rohan is Unhealthy
103	Smith	Smith is Unhealthy
104	Rayyan	Rayyan is Unhealthy
105	Mark	Mark is Unhealthy

Attached    Total rows: 0, buffers: 0    Ro

### **Conclusion:**

*Thus we have performed ETL using SQL Server Integration Service (SSIS)*