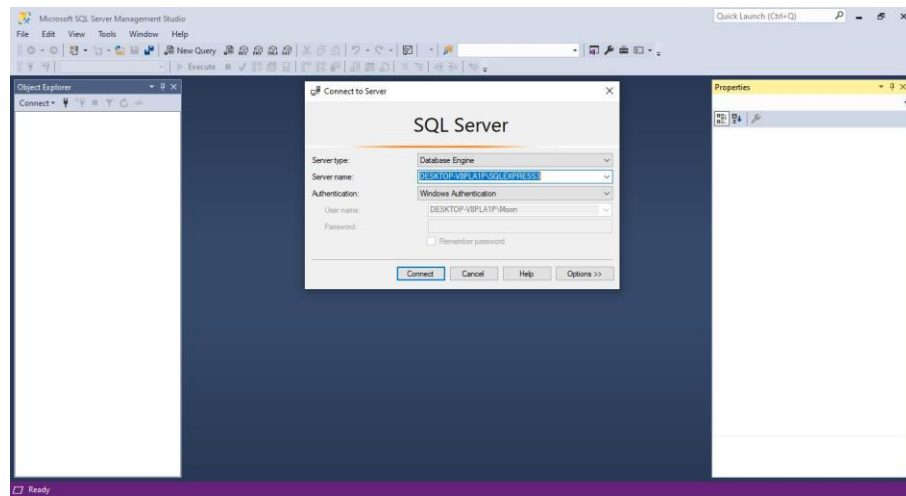
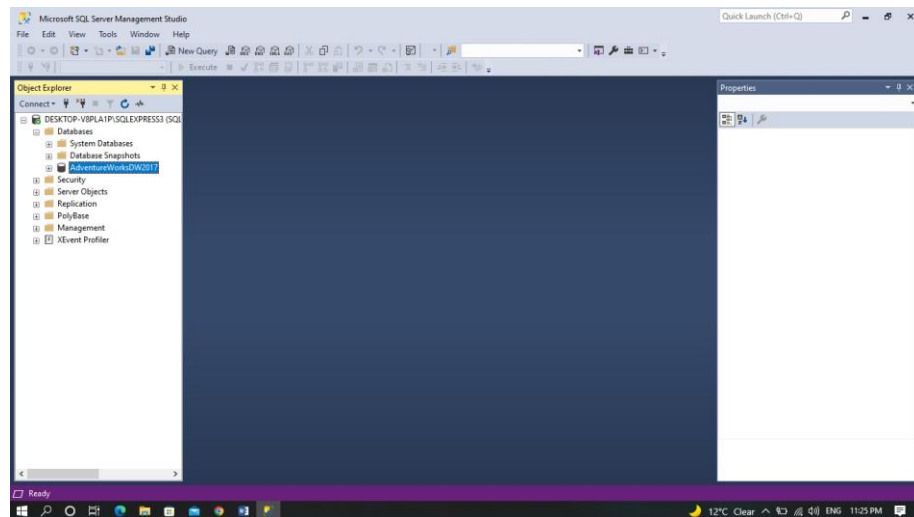


1. Connect to server



2. Uploaded AdventureWorksDW2017 Database



3. Check the data for one or two table (dbo.DimEmployee)

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The 'Query Results' pane displays the following data:

EmployeeKey	ParentEmployeeKey	EmployeeNationalIDNumberKey	ParentEmployeeNationalIDNumberKey	SalesTerritoryKey	FreightName
1	3	10	14417827	11	Gay
2	2	7	25322276	11	Nash
3	3	14	528647174	11	Robato
4	4	3	112487881	11	Rob
5	5	3	112487881	11	Rob
6	6	267	48216528	11	Thery
7	7	112	2475624	11	David
8	8	112	2475624	11	David
9	9	23	32873752	11	Jolynn
10	10	189	63927118	11	Ruth

4. Extract Sample Currency Data_najmun columns

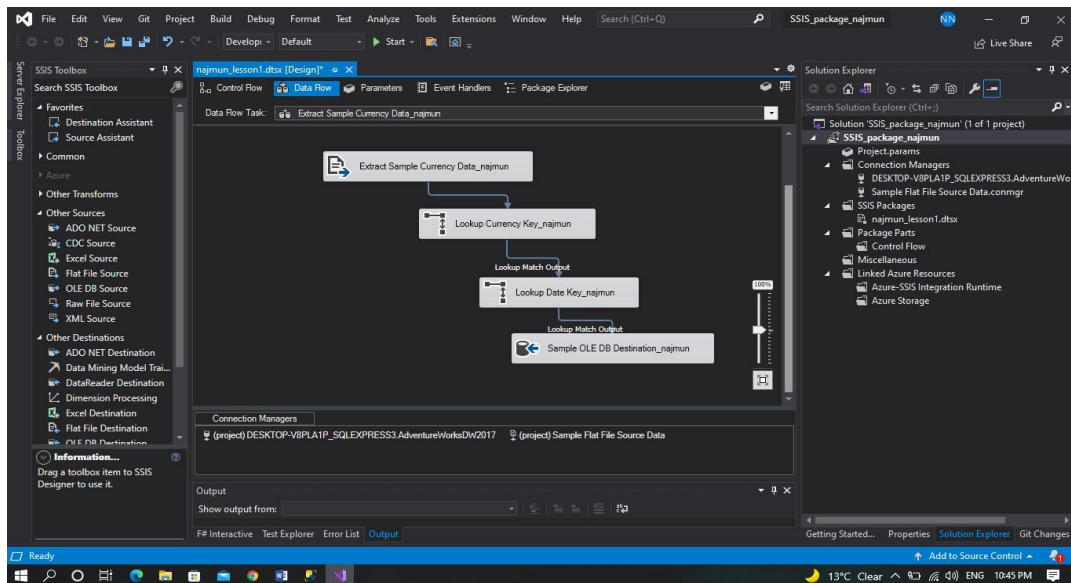
The screenshot shows the 'Flat File Source Editor' window. The 'Available External Columns' list includes:

- ☒ Name
- ☒ AverageRate_najmun
- ☒ CurrencyID_najmun
- ☒ CurrencyDate_najmun
- ☒ EndOfDayRate_najmun

The 'External Column' and 'Output Column' mapping table is as follows:

External Column	Output Column
AverageRate_najmun	AverageRate_najmun
CurrencyID_najmun	CurrencyID_najmun
CurrencyDate_najmun	CurrencyDate_najmun
EndOfDayRate_najmun	EndOfDayRate_najmun

5. (Visual Studio) Data Flow



6. Lookup Currency Key_najmun Columns

Lookup Transformation Editor

This transform enables the performance of simple equi-joins between the input and a reference data set.

General
Connection
Columns
Advanced
Error Output

Available Input Columns

Name
AverageRate_najmun
CurrencyID_najmun
CurrencyDate_najmun
EndOfDayRate_najmun

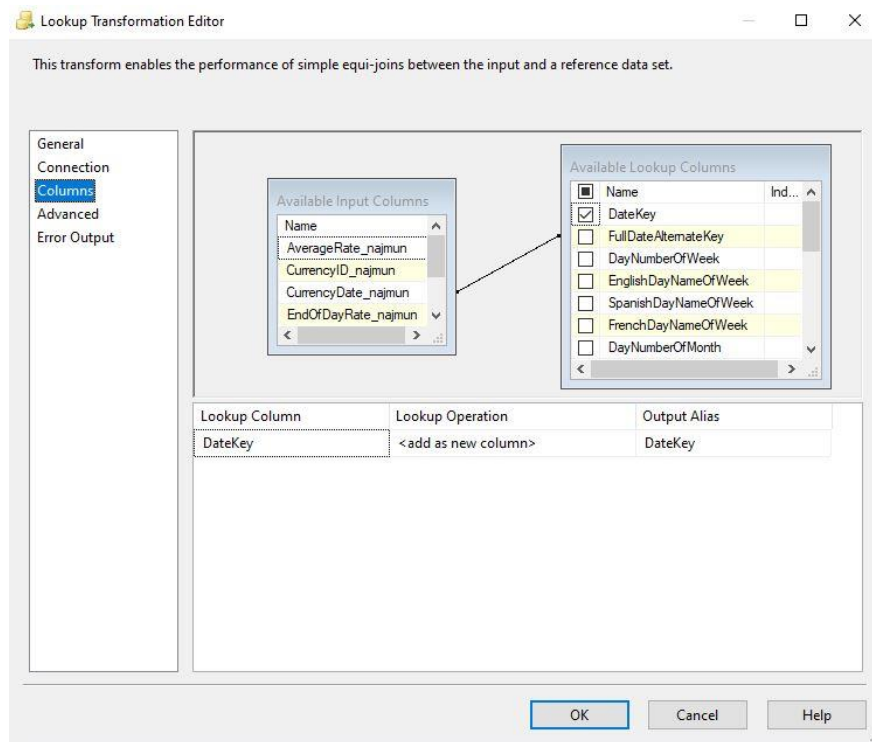
Available Lookup Columns

Name	Ind...
<input type="checkbox"/> CurrencyKey	
<input checked="" type="checkbox"/> CurrencyAlternateKey	
<input type="checkbox"/> CurrencyName	

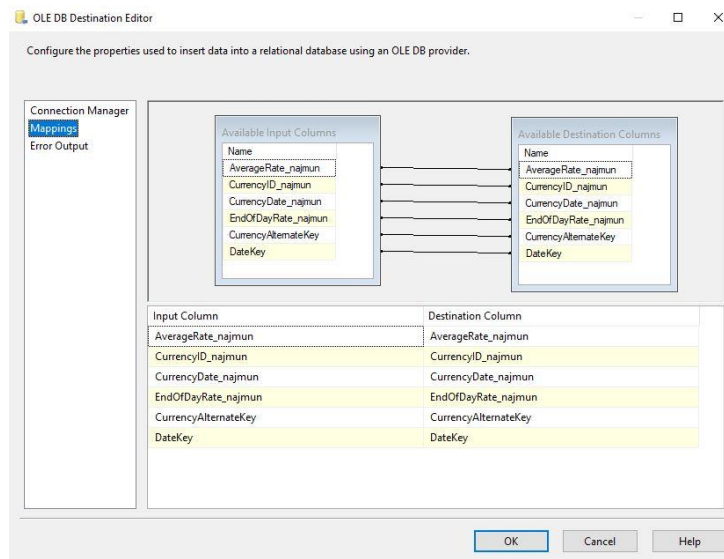
Lookup Column	Lookup Operation	Output Alias
CurrencyAlternateKey	< add as new column >	CurrencyAlternateKey

OK Cancel Help

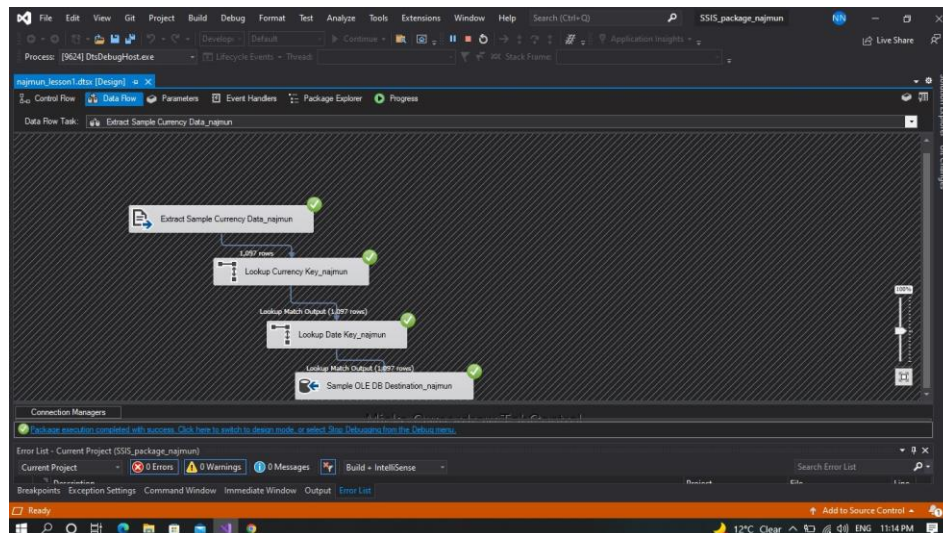
7. Lookup Date Key_najmun columns



8. Sample OLE DB Destination_najmun



9. Debug start. The package runs, resulting in 1,096 rows successfully added into the NewFactCurrencyRate fact table in AdventureWorksDW2017



9. Launch Microsoft Management tools and display top 1000 rows of the new currency fact table

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The left pane shows the Object Explorer with the AdventureWorksDW2017 database selected. The center pane shows a SQL query executed in the Query Editor, which is a SELECT TOP (1000) statement for the NewFactCurrencyRate_najmun table. The right pane shows the Properties window for the current connection. The bottom status bar indicates that the query was executed successfully, returning 1,000 rows.

Query Executed:

```
SELECT TOP (1000) [AverageRate_najmun],
                 [CurrencyID_najmun],
                 [CurrencyDate_najmun],
                 [EndOfDayRate_najmun],
                 [CurrencyAlternateKey]
FROM [AdventureWorksDW2017].[dbo].[NewFactCurrencyRate_najmun]
```

Query Results:

	AverageRate_najmun	CurrencyID_najmun	CurrencyDate_najmun	EndOfDayRate_najmun	CurrencyAlternateKey
1	1	USD	2005-07-01	0.9998	USD
2	1	USD	2005-07-02	1.000901	USD
3	1	USD	2005-07-03	0.9996002	USD
4	1	USD	2005-07-04	1	USD
5	1	USD	2005-07-05	0.9996002	USD
6	1	USD	2005-07-06	1.0005	USD
7	1	USD	2005-07-07	0.9995003	USD
8	1	USD	2005-07-08	1.0002	USD
9	1	USD	2005-07-09	0.9992006	USD
10	1	USD	2005-07-10	1.0002	USD
11	1	USD	2005-07-11	0.9996002	USD

Properties Window - Current connection parameters:

- Aggregate Status:** Connection failures, Elapsed time: 00:00:00.225, Finish time: 2022-05-23 10:35:37 PM, Name: DESKTOP-V8PLA1P\SQLEXPRESS, Rows returned: 1000, Start time: 2022-05-23 10:35:36 PM, State: Open.
- Connection:** Connection name: DESKTOP-V8PLA1P\SQLEXPRESS.
- Connection Details:** Connection elapsed time: 00:00:00.225, Connection encryption: Not encrypted, Connection finish time: 2022-05-23 10:35:37 PM, Connection rows returned: 1000, Connection start time: 2022-05-23 10:35:36 PM, Connection state: Open, Display name: DESKTOP-V8PLA1P\SQLEXPRESS, Login name: DESKTOP-V8PLA1P\Moon, Server name: DESKTOP-V8PLA1P\SQLEXPRESS, Server version: 15.0.2000, Session Tracing ID: 61.
- Name:** The name of the connection.

Status Bar: Query executed successfully. DESKTOP-V8PLA1P\SQLEXPRESS... DESKTOP-V8PLA1P\Moon (61) AdventureWorksDW2017 00:00:00 1,000 rows