

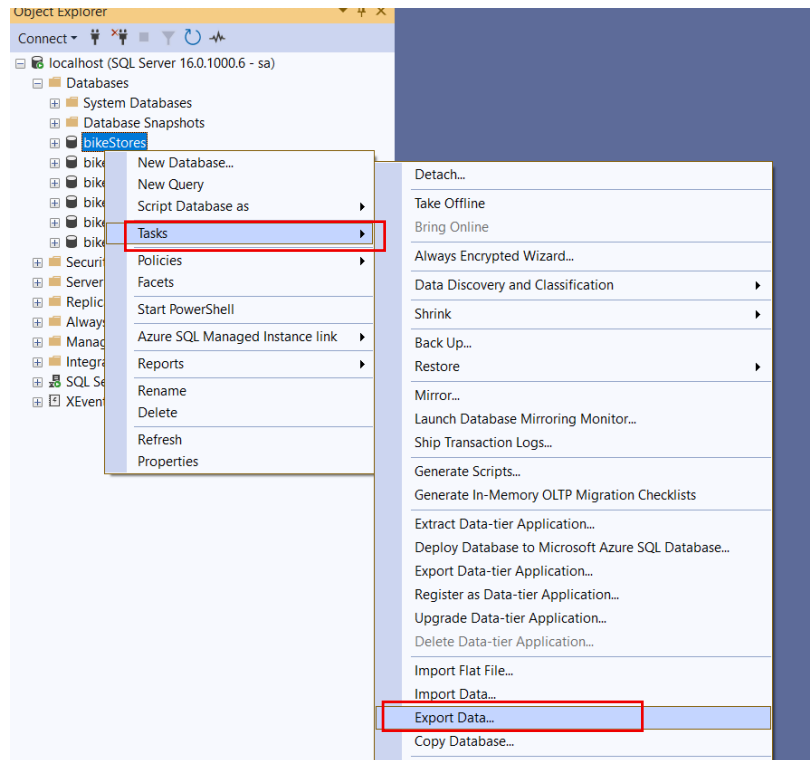
TASK 4

There are three methods to copy specific tables and columns to move between databases.

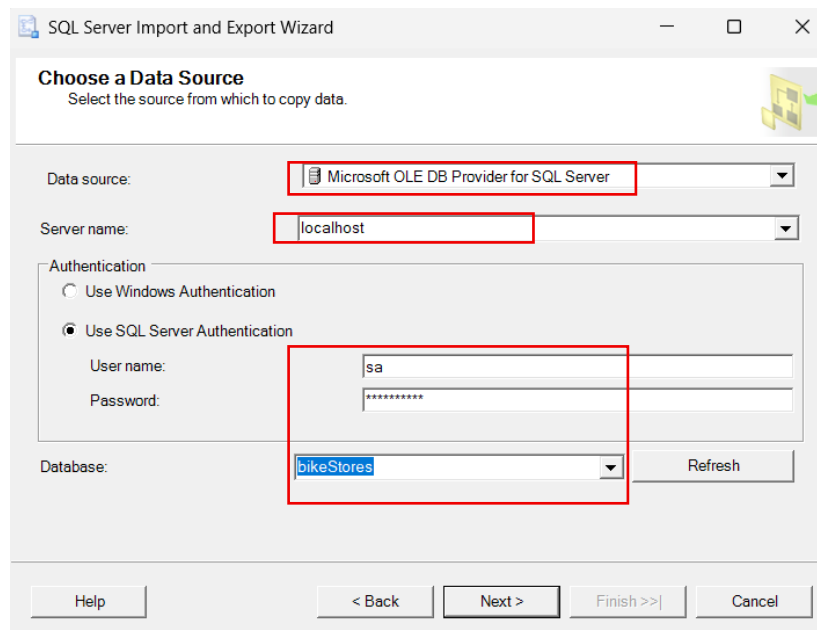
1. Use SQL Server Import and Export Wizard (Quick & GUI)

1. **Open SSMS** → Right-click the **source database** → Go to:

Tasks → Export Data



2. Choose a Data Source



3. Choose a Destination

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 subtitle is 'Choose a Destination' with the instruction 'Specify where to copy data to.' The 'Destination' dropdown is set to 'Microsoft OLE DB Provider for SQL Server'. The 'Server name' dropdown is set to 'localhost'. Under the 'Authentication' section, 'Use SQL Server Authentication' is selected. The 'User name' field is 'sa' and the 'Password' field is masked with asterisks. The 'Database' dropdown is set to 'bikeStoresSp'. There are 'Refresh' and 'New...' buttons next to the database dropdown. At the bottom, there are 'Help', '< Back', 'Next >', 'Finish >>', and 'Cancel' buttons.

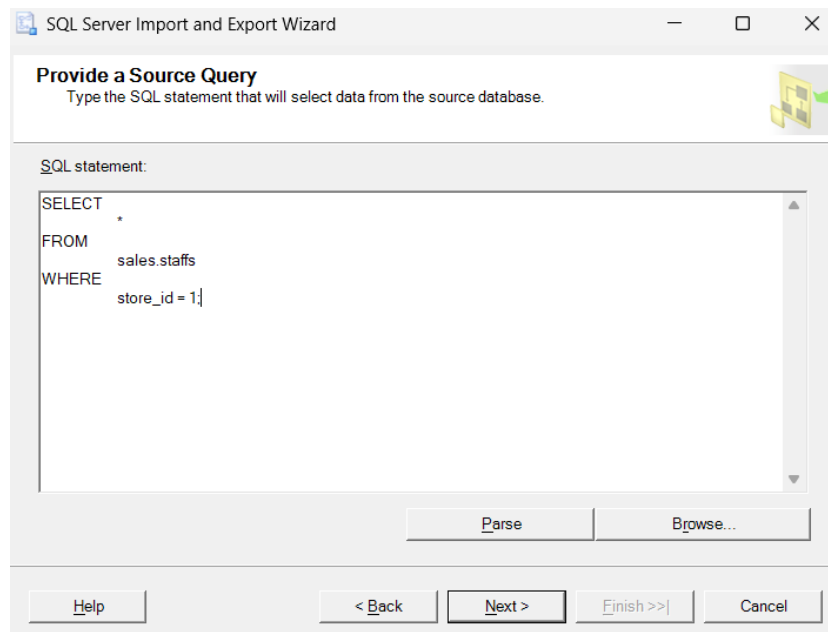
4. Specify Table Copy or Query

- Select **"Write a query to specify the data to transfer"** (this gives full column control).

The screenshot shows the 'Specify Table Copy or Query' step of the SQL Server Import and Export Wizard. The window title is 'SQL Server Import and Export Wizard'. The subtitle is 'Specify Table Copy or Query' with the instruction 'Specify whether to copy one or more tables and views or to copy the results of a query from the data source.' There are two radio button options: 'Copy data from one or more tables or views' (which is unselected) and 'Write a query to specify the data to transfer' (which is selected). Below the selected option, there is a description: 'Use this option to write an SQL query to manipulate or to restrict the source data for the copy operation.' At the bottom, there are 'Help', '< Back', 'Next >', 'Finish >>', and 'Cancel' buttons.

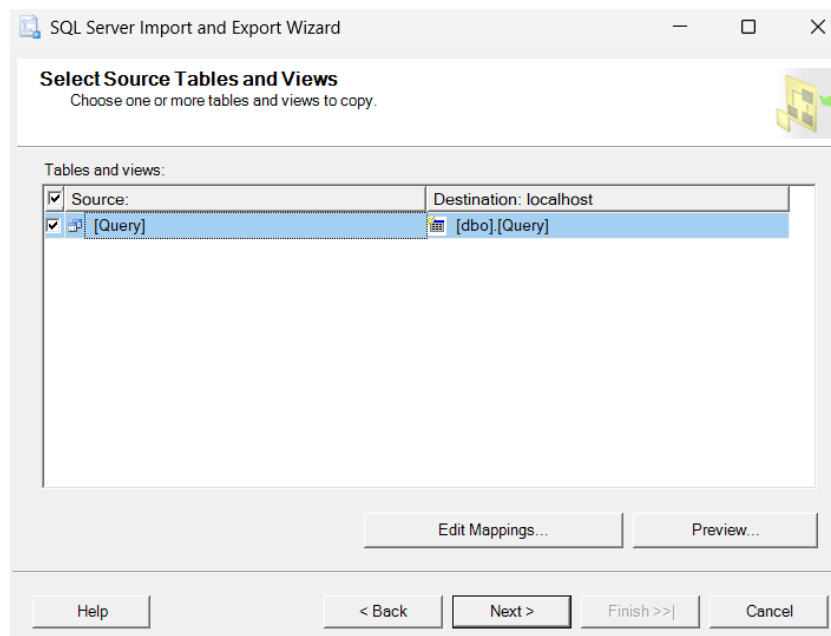
5. Enter SQL Query for Each Table

- We need to define this manually for each table.



6. Set Destination Table

- Define a new or existing table name in the target DB.



7. Configure Column Mappings (optional)

- Click **Edit Mappings** to adjust data types or handle identity inserts.

SQL Server Import and Export Wizard

The execution was successful

✓ Success

11 Total0 Error

11 Success0 Warning

Details:

Action	Status	Message
✓ Setting Source Connection	Success	
✓ Setting Destination Connection	Success	
✓ Validating	Success	
✓ Prepare for Execute	Success	
✓ Pre-execute	Success	
✓ Executing	Success	
ⓘ Copying to [dbo].[Query]	Success	4 rows transferred
✓ Post-execute	Success	

Filter

Stop

Report

Close

SQLQuery2.sql...Sp (sa (68))*createTable.sql...resSp (sa (66))

1SELECT

2*

3FROM dbo.Query;

100 %

✓ No issues found

Results

Messages

	staff_id	first_name	last_name	email	phone	active	store_id	manager_id
1	1	Fabiola	Jackson	fabiola.jackson@bikes.shop	(831) 555-5554	1	1	NULL
2	2	Mireya	Copeland	mireya.copeland@bikes.shop	(831) 555-5555	1	1	1
3	3	Genna	Serrano	genna.serrano@bikes.shop	(831) 555-5556	1	1	2
4	4	Virgie	Wiggins	virgie.wiggins@bikes.shop	(831) 555-5557	1	1	2

2. Use SSIS in Visual Studio (More Control + Reusability)

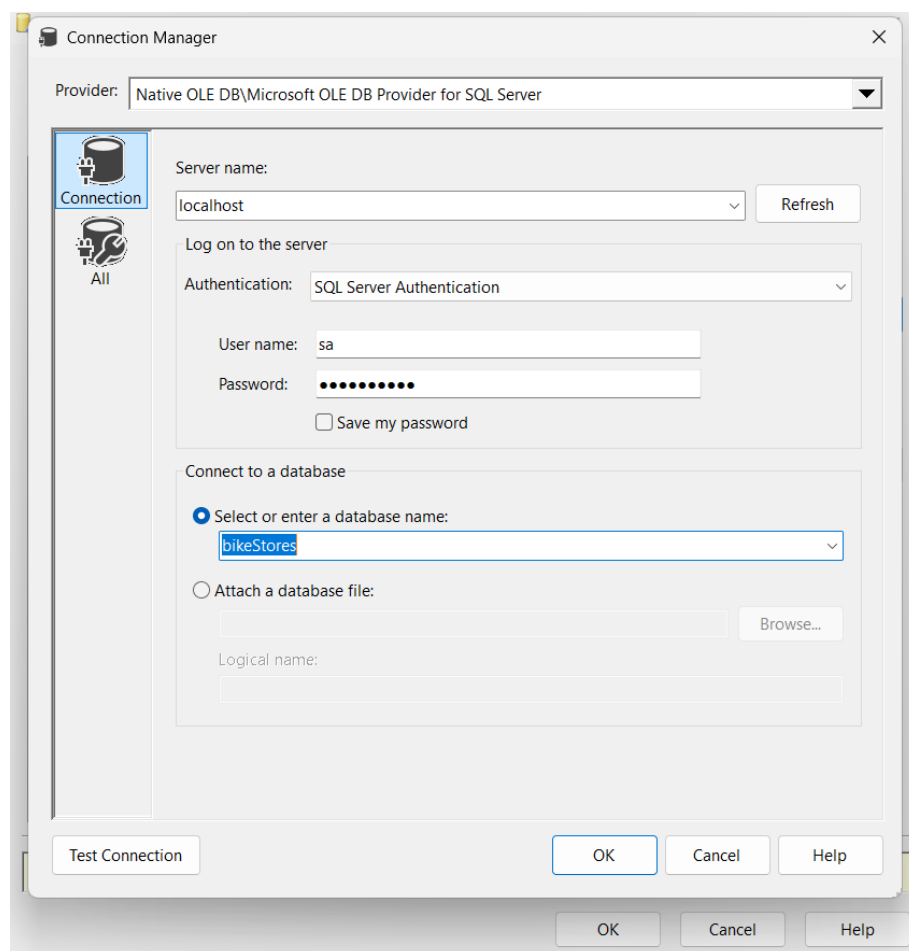
1. Open Visual Studio → Create Integration Services Project

2. In Control Flow tab:

- Drag a **Data Flow Task** to the canvas.

3. In Data Flow tab:

- Drag an **OLE DB Source**:
 - Create a connection to our **source DB**.
 - Choose **SQL Command** as data access mode.
 - Write a query to select only specific columns.



OLE DB Source Editor

Configure the properties used by a data flow to obtain data from any OLE DB provider.

Connection Manager

Columns

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.

OLE DB connection manager:

localhost.bikeStores.sa

New...

Data access mode:

SQL command

SQL command text:

SELECT * FROM sales.staffs WHERE store_id = 1;

Parameters...

Build Query...

Browse...

Parse Query

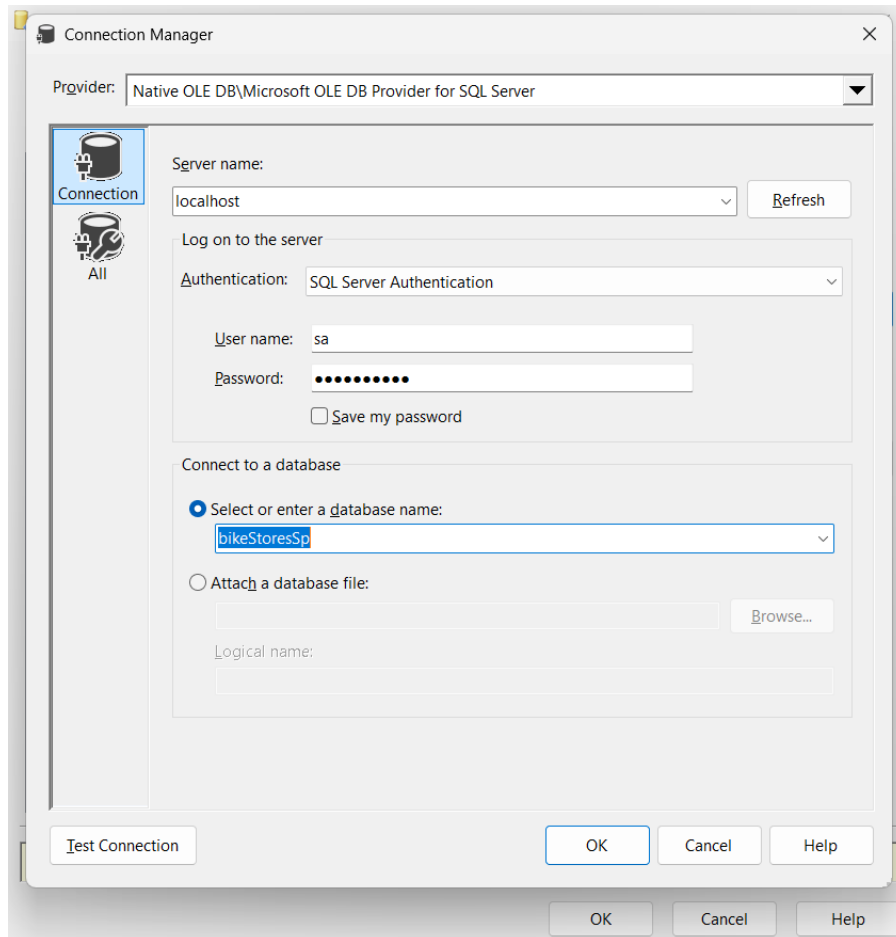
Preview...

OK

Cancel

Help

- Drag an **OLE DB Destination**:
 - Connect it to the **target DB**.
 - Create the destination table or map to existing.
 - Adjust column mappings as needed.



4. Repeat for each selective table we want to copy.

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.bikeStoresSp.sa New...

Data access mode:
Table or view

Name of the table or the view:
[s].[staff] New...

View Existing

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

Available Input Columns

Name
staff_id
first_name
last_name
email
phone
active
store_id

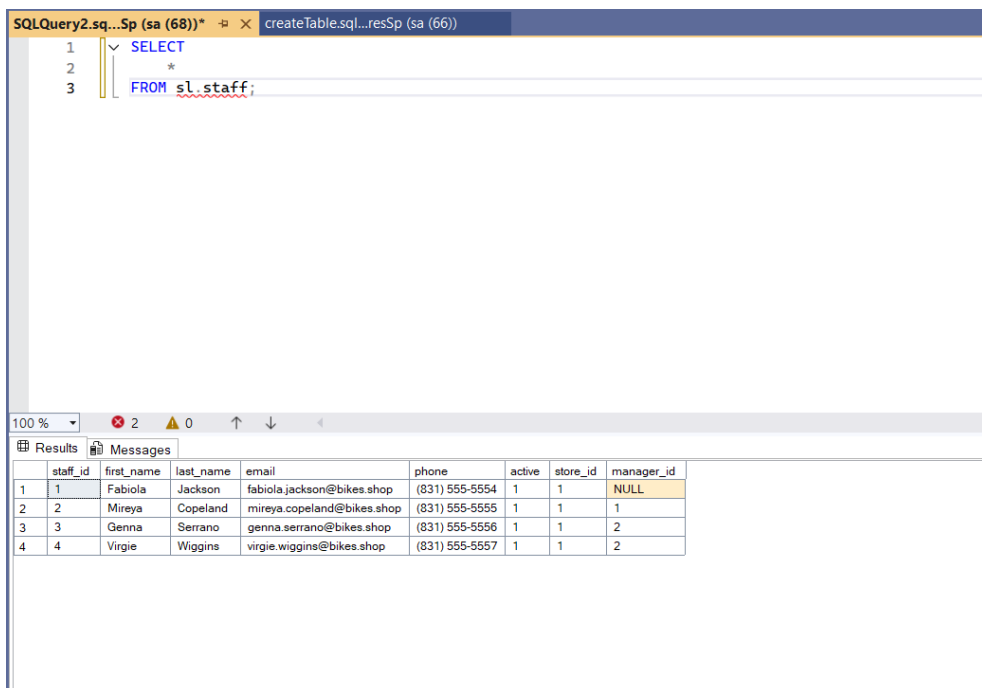
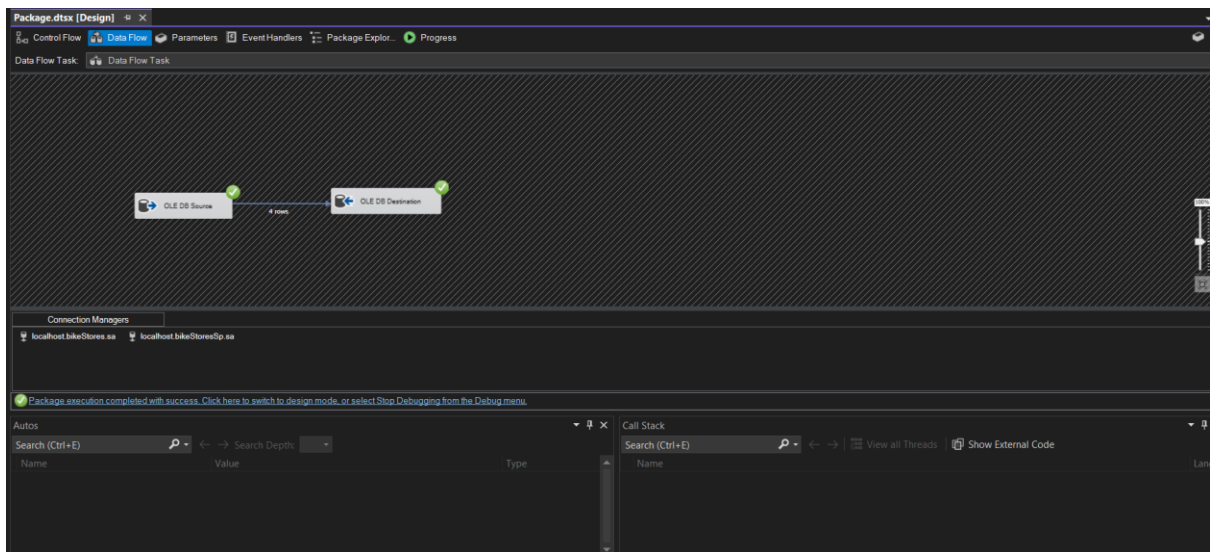
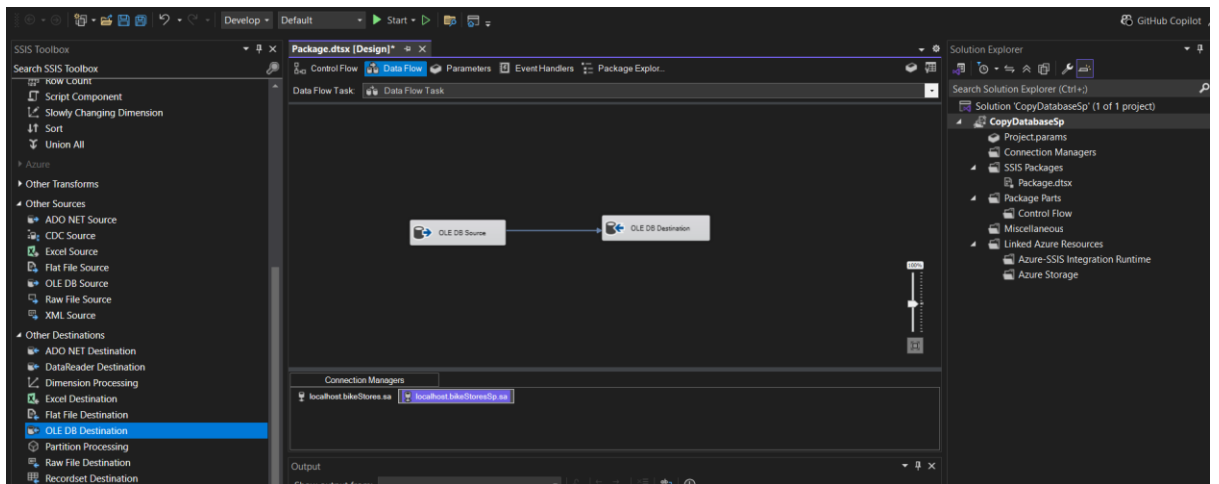
Available Destination Columns

Name
staff_id
first_name
last_name
email
phone
active
store_id

Input Column

Input Column	Destination Column
staff_id	staff_id
first_name	first_name
last_name	last_name
email	email
phone	phone
active	active
store_id	store_id
manager_id	manager_id

OK Cancel Help



3. Using Scripts (T-SQL)

- a. Writing custom scripts to create tables and insert data.
- b. We can generate CREATE TABLE and INSERT statements manually or via SSMS scripting.

This requires destination tables to exist already with compatible schema.