TASK 3

There are three methods to copy copy all tables from one database to another

1. Using Scripts (T-SQL)

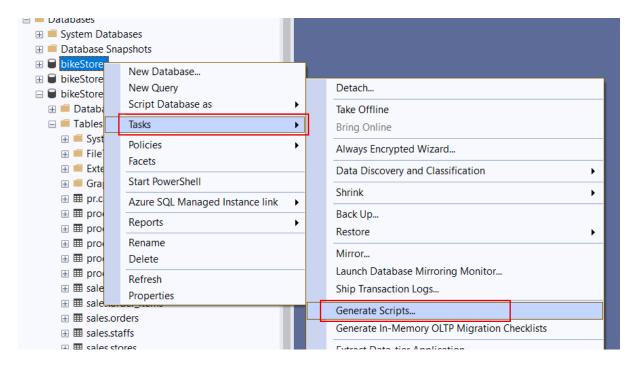
- a. Writing custom scripts to create tables and insert data.
- b. We can generate CREATE TABLE and INSERT statements manually or via SSMS scripting.
- c. Time-consuming and error-prone for large schemas.
- d. Lacks flexibility for data types, constraints, indexes unless carefully handled.

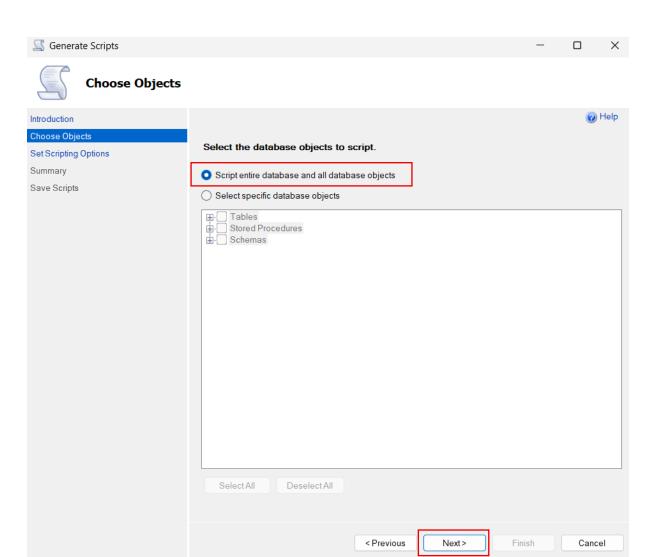
Only recommended for small, controlled environments or when precise control over SQL is required.

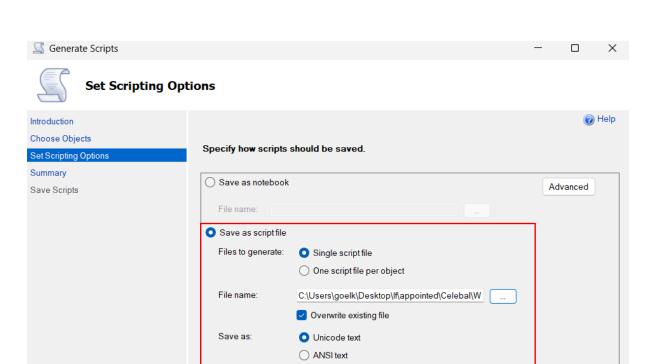
2. Using SQL Server Management Studio (SSMS) – Tasks → Generate Scripts / Export Data

a) Tasks → Generate Scripts

- Allows scripting out all schema (tables, views, stored procedures, etc.) and optionally data.
- Can be used to recreate the entire DB in another instance.
- Flexible, but may not handle large datasets well if exporting data as inserts.





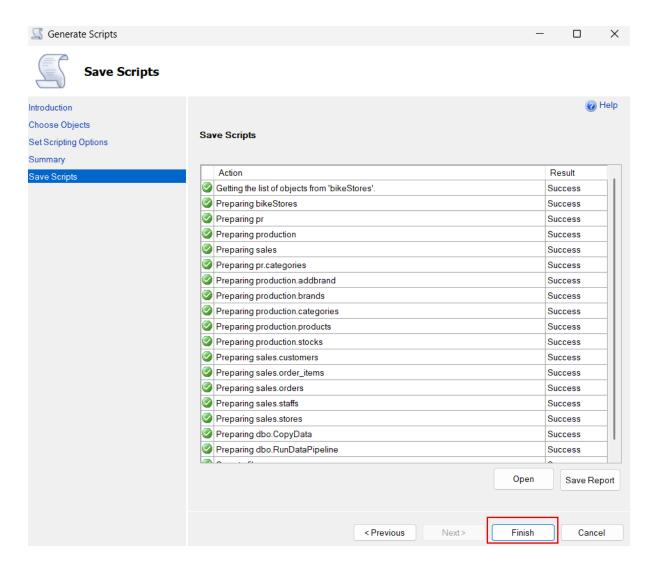


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Cancel

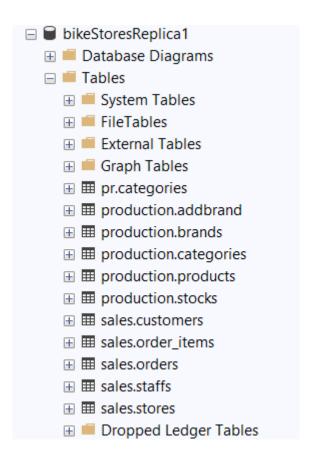
Save to clipboard
Open in new query window



Run the script generated in the specified path. (Script generated is present in Task3 folder, script name: **transfer.sql**)

In this method, we have to modify the script and update the database name. The scripts are generated for the source database, change the source database name to the destination database name everywhere in the script.

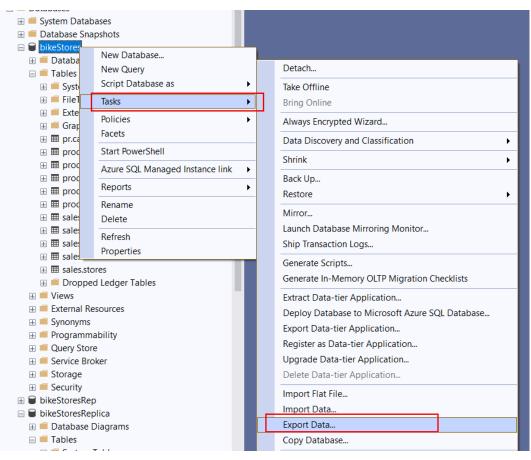
OUTPUT:

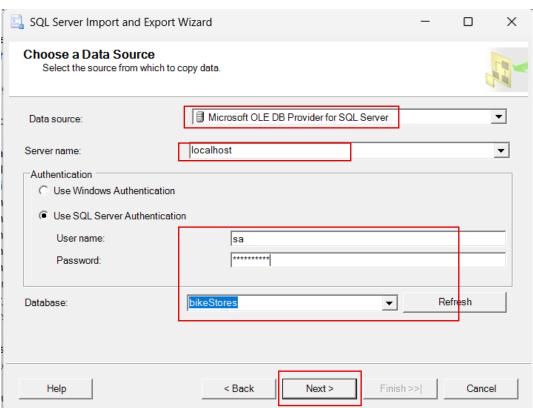


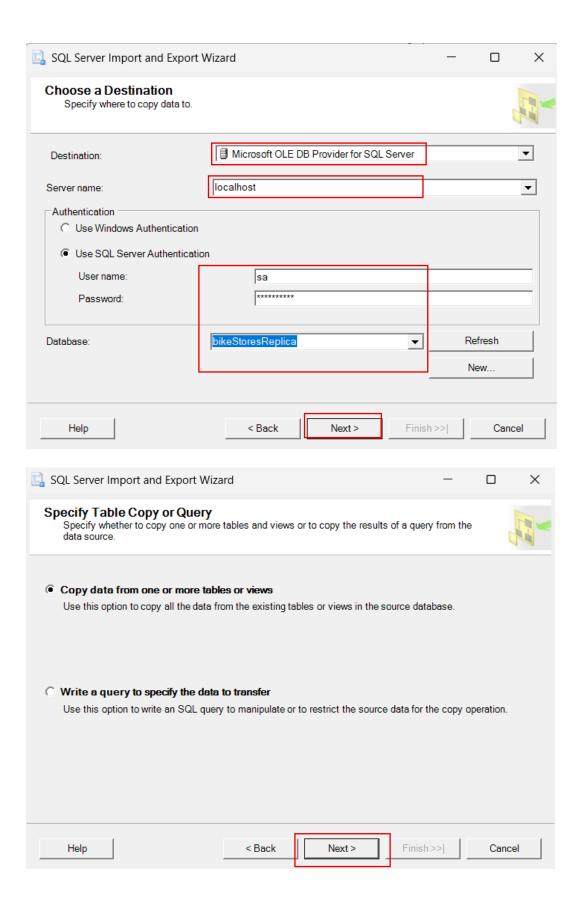
b) Tasks → Export Data (Wizard)

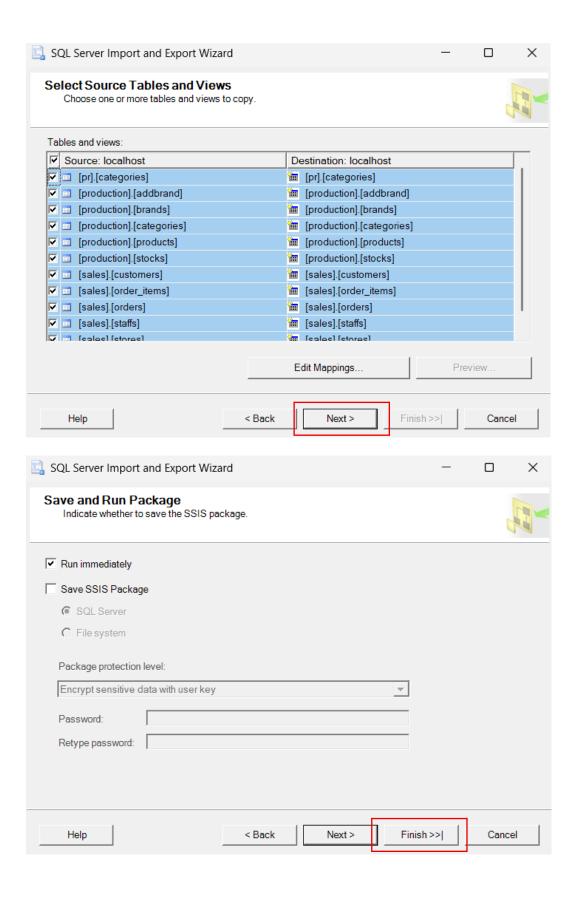
- Uses the SQL Server Import and Export Wizard.
- Good for quickly copying tables (schema + data) to another DB or server.
- We can select all tables, define transformations, etc.
- Efficient for data, but limited for schema objects like stored procedures, functions, etc.

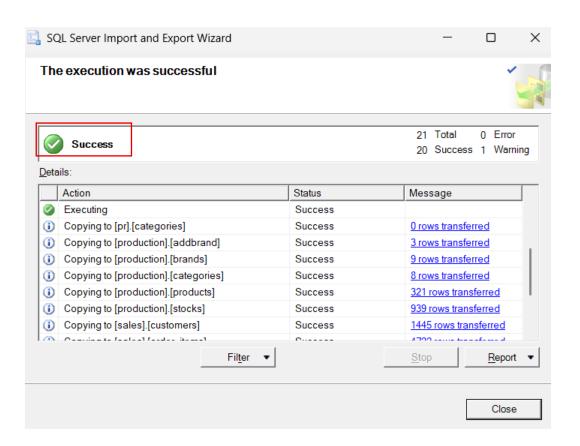
Copy all tables from bikeStores database to bikeStoresReplica database.

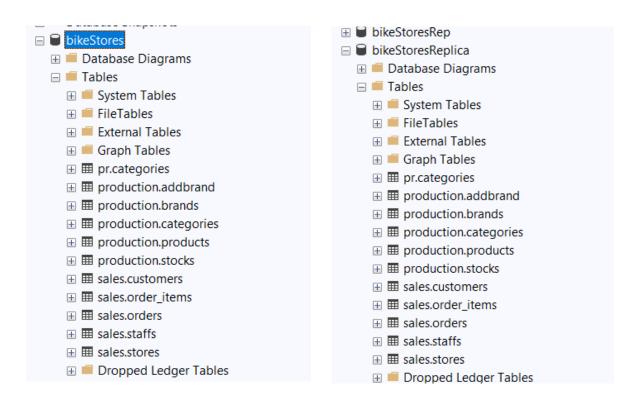












3. Using Visual Studio SQL Server Integration Services (SSIS)

- SSIS is a professional-grade ETL (Extract, Transform, Load) tool.
- Supports complex data flows, error handling, transformations, automation.
- Can copy:
 - o All tables and data
 - Specific subsets with transformations
 - o From different data sources (e.g., Excel, Oracle) into SQL Server

Best for enterprise-level data movement, especially for large volumes or scheduled processes.

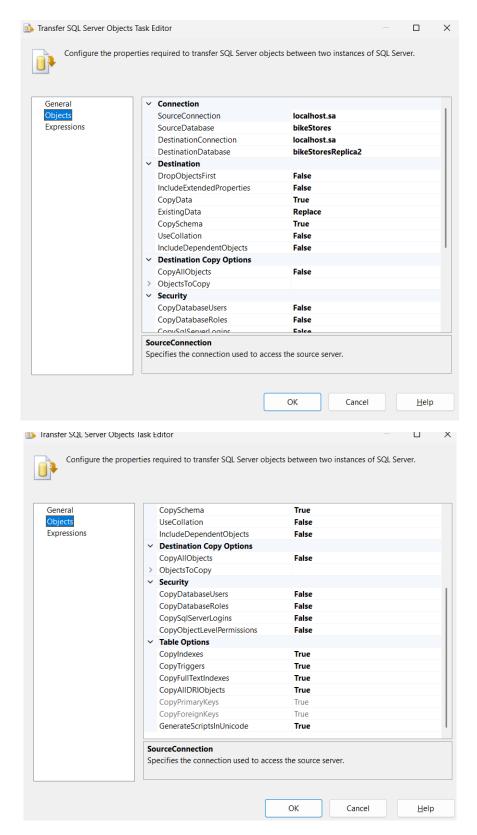
STEPS:

Open Visual Studio and Create a New SSIS Project

- Open Visual Studio.
- Click "Create a new project".
- Choose "Integration Services Project" (the SQL SERVER INTEGRATION SERVICES PROJECTS extension must be installed in Visual Studio).
- Name the project and click Create.

Configure the Source (Source Database)

- In the Data Flow tab, drag "Transfer SQL Server Objects Task" from the toolbox.
- Double-click it and in the Objects section:
 - o Create a connection to the source database.
 - o Create a connection to the source database.
 - Enable options in ObjectsToCopy, Table Options



- o **SourceConnection**: Create/select a connection to the source database.
- o **DestinationConnection**: Create/select a connection to the destination database.
- o Set:
 - CopyData = True

- CopySchema = True
- CopyAllObjects = True (or manually select specific tables in ObjectsToCopy)
- DropObjectsFirst = False (unless we want to replace existing tables)
- 2. Click OK.

Save and Deploy (or Run Locally)

- Click Start (green arrow) or press F5 to run the package.
- Visual Studio will execute the SSIS package and display progress/output.

SUCCESSFUL DATA COPY

