

DATA WAREHOUSE SSIS & STAR SCHEMA



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(1941720080/21)

PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

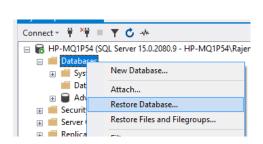
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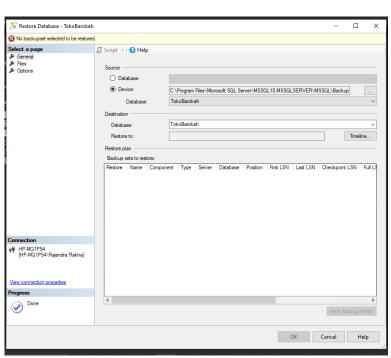
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Practice 1

(Setting up a Sample Data Source and Data Warehouse Schema)

Extract TokoBarokah.7zip Then restore to Database Server





In the same repository has been provided SQL file named TokoBarokahDW.sql, open and start that file in your Query Editor SSMS window.

```
DROP DATABASE IF EXISTS TokoBarokahDW;
GO

-- Buat database baru sebagai datawarehouse
CREATE DATABASE TokoBarokahDW;
GO

USE TokoBarokahDW;
GO

-- Buat tabel dimensi barang
ECREATE TABLE DimBarang (
    Id INT PRIMARY KEY IDENTITY,
    AltKey VARCHAR (50),
    Nama VARCHAR (50),
    Barcode VARCHAR (50),
    Barcode VARCHAR (50),
    GO

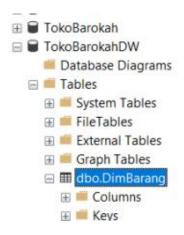
-- Buat tabel dimensi karyawan
ECREATE TABLE DimKaryawan (
    Id INT PRIMARY KEY IDENTITY,
    AltKey VARCHAR (50),
    Alamat VARCHAR (50),
    JenisKelamin CHAR (1),
    Tanggallahir DATE
);
-- Buat tabel fakta penjualan
```

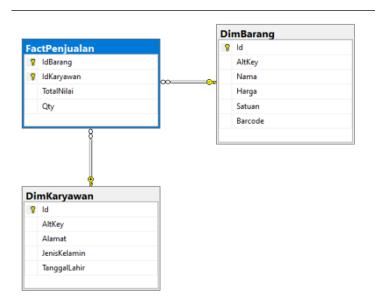


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Make sure there is now a database named TokoBarokahDW on your SQL Server. Notice in the database there is 1 fact table and 1 dimension table. In the next part of the practicum, we will Load data from a CSV file into the DimBarang table.







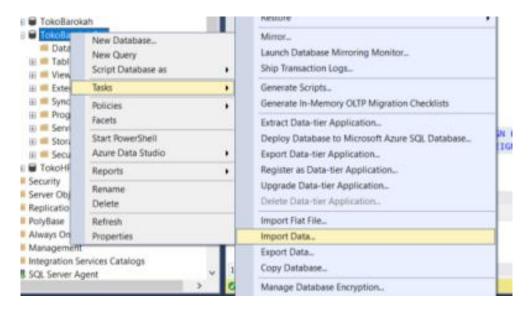
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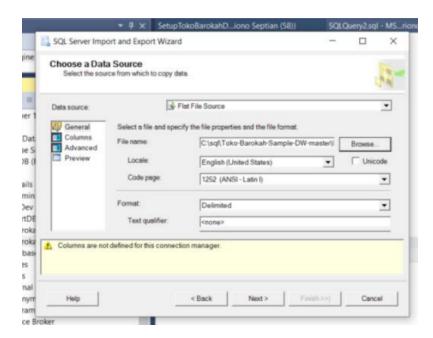
Praktikum 2

(Membuat Package SSIS dengan Export/Import Wizard)

To importing data with Export/Import Wizard. Firstly, right click on the database name, then select Tasks and after that Import Data.



A welcome window will appear, just click next until the Choose a Data Source window appears. In this window make sure in the Data source column: it is Flat File Source because we will be importing data from a CSV file. Click Browse to adjust the location of the CSV file where. Make sure the contents are as shown in the following image, then click Next >.

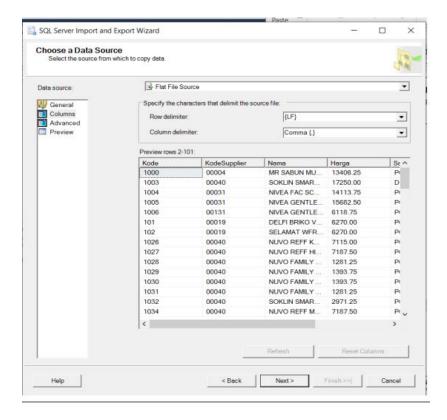




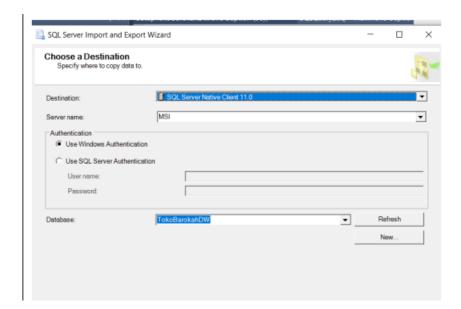
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In the screen that appears next, you can make sure that the data in the CSV file to be imported is visible here. If it does not appear, it means that there are settings that are still not correct. If the data is visible here, click Next.



Next, the Choose a Destination dialog window will appear. In the Destination field, enter the correct connection provider, namely SQL Server Native Client 11.0. This Connection Provider is used because the imported data will be written to the SQL Server DBMS. If the data will be loaded into another DBMS, then we can choose the appropriate connection provider. Make sure the selected database is TokoBarokahDW, then click Next.

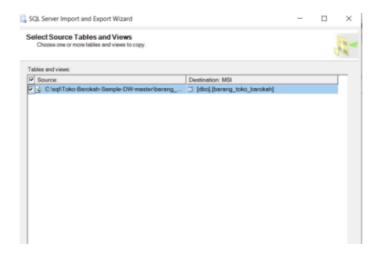




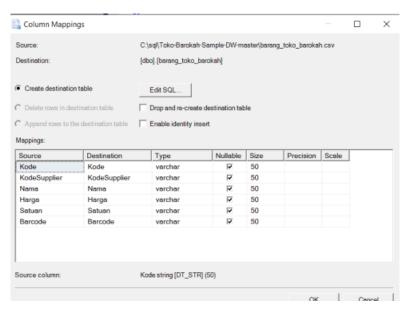
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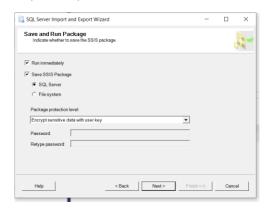
In the next screen that appears, make sure that in the Destination : column, the selected table is [dbo].[DimBarang], then click Edit Mappings.



In the Column Mappings windows, make sure that all data type according to the image below (all varchar). If it is done, click OK. Then in the previous dialog, click Next.



Save and Run Package dialog will appear. In this part, make sure the Save SSIS Package option already checked, also on File System option. Then click Next.

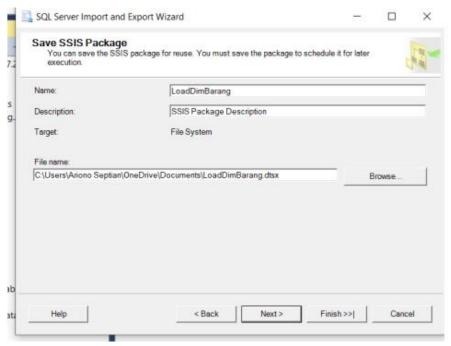




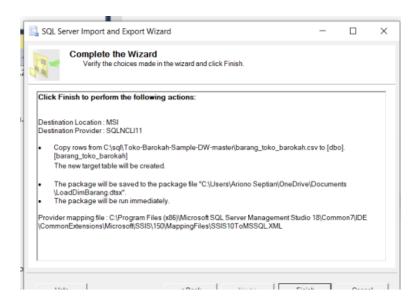
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In the next dialog that appears, fill in the package file name with the name LoadDimBarang. Click Browse and save the package in a folder that you can easily remember. Note the file name extension is *.dtsx, click Next.



The next dialog appear is the dialog that contain the resume of import process that already done. Make sure your dialog appears as shown in the following image then click Finish.



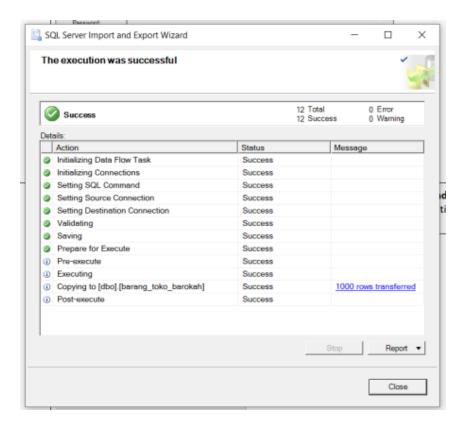
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The import process will run. If the previous steps are carried out correctly, the import process will have the status of Success. Click Close.



Type the following query to display the data in the DimBarang table, if the import is successful, 1000 new rows will appear in the table as shown in the following figure.



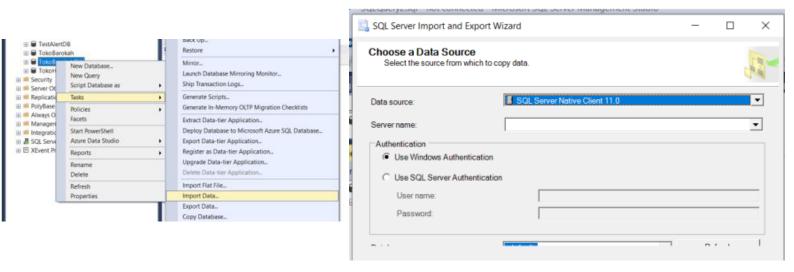


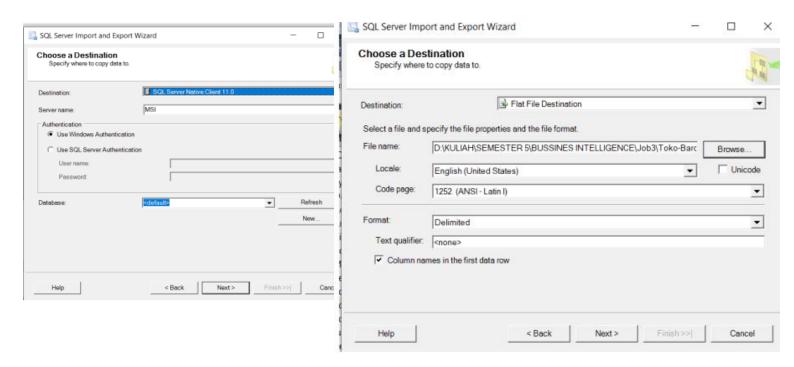
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Practice

Export data from the dbo.Karyawan table in the TokoBarokah database into a CSV file. You can use the T-SQL syntax or the Export/Import Wizard.

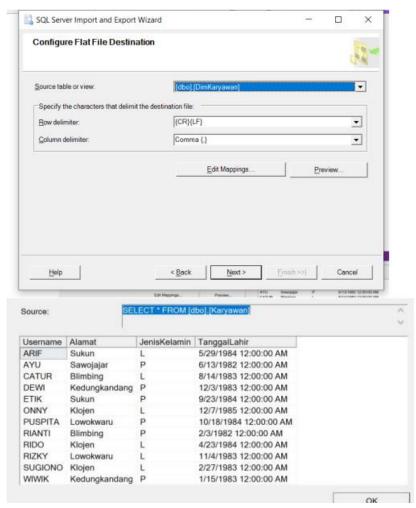


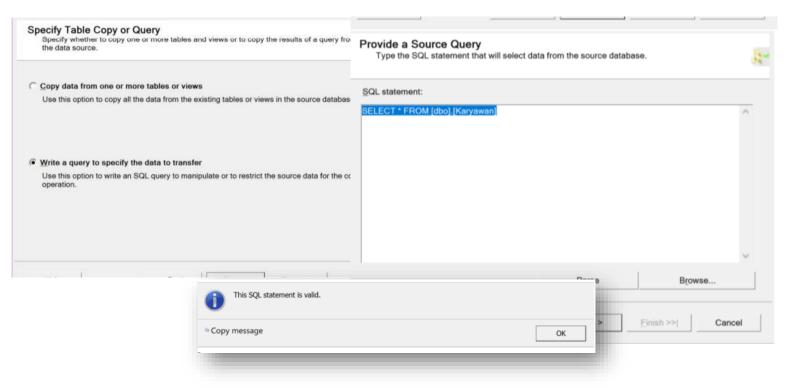




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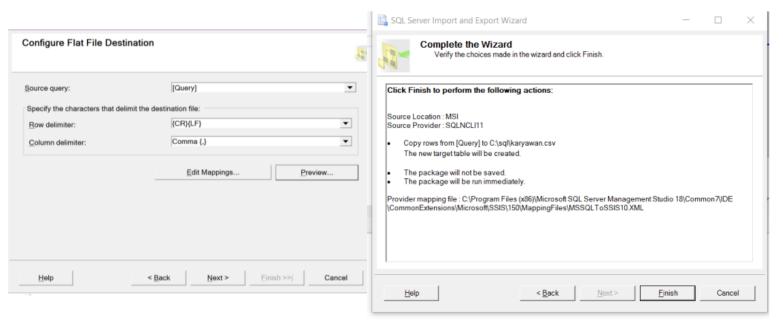


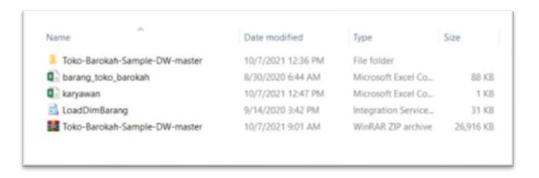


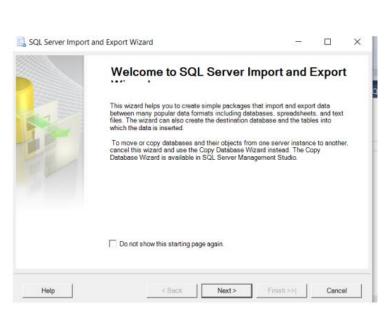


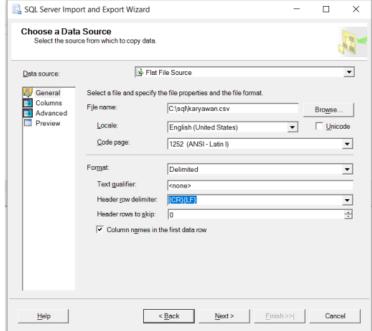
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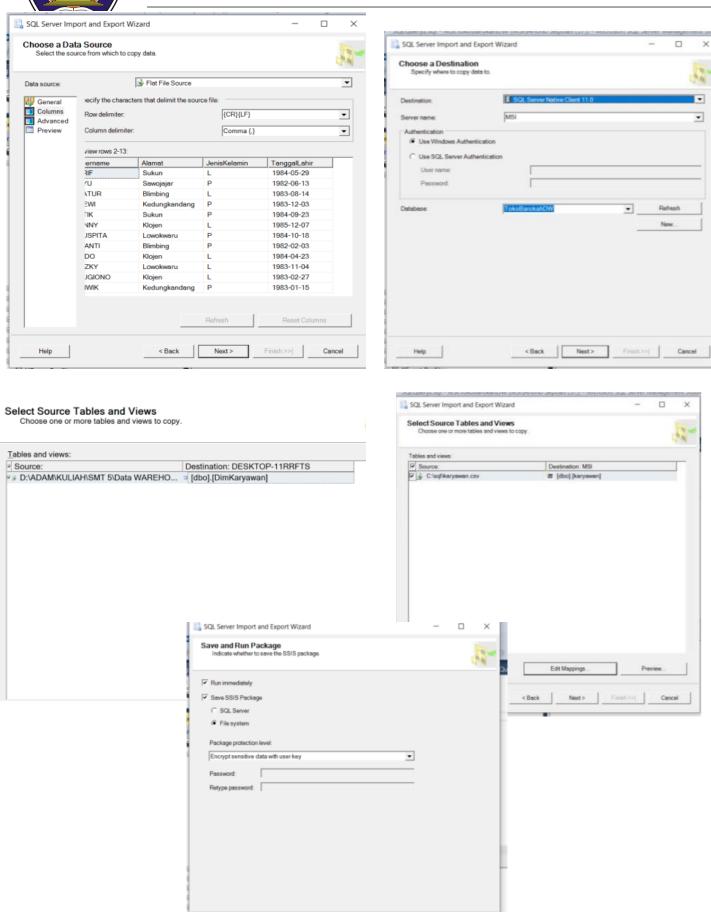






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