



JOBSHEET 4

EXECUTE ETL LOGIC



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PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

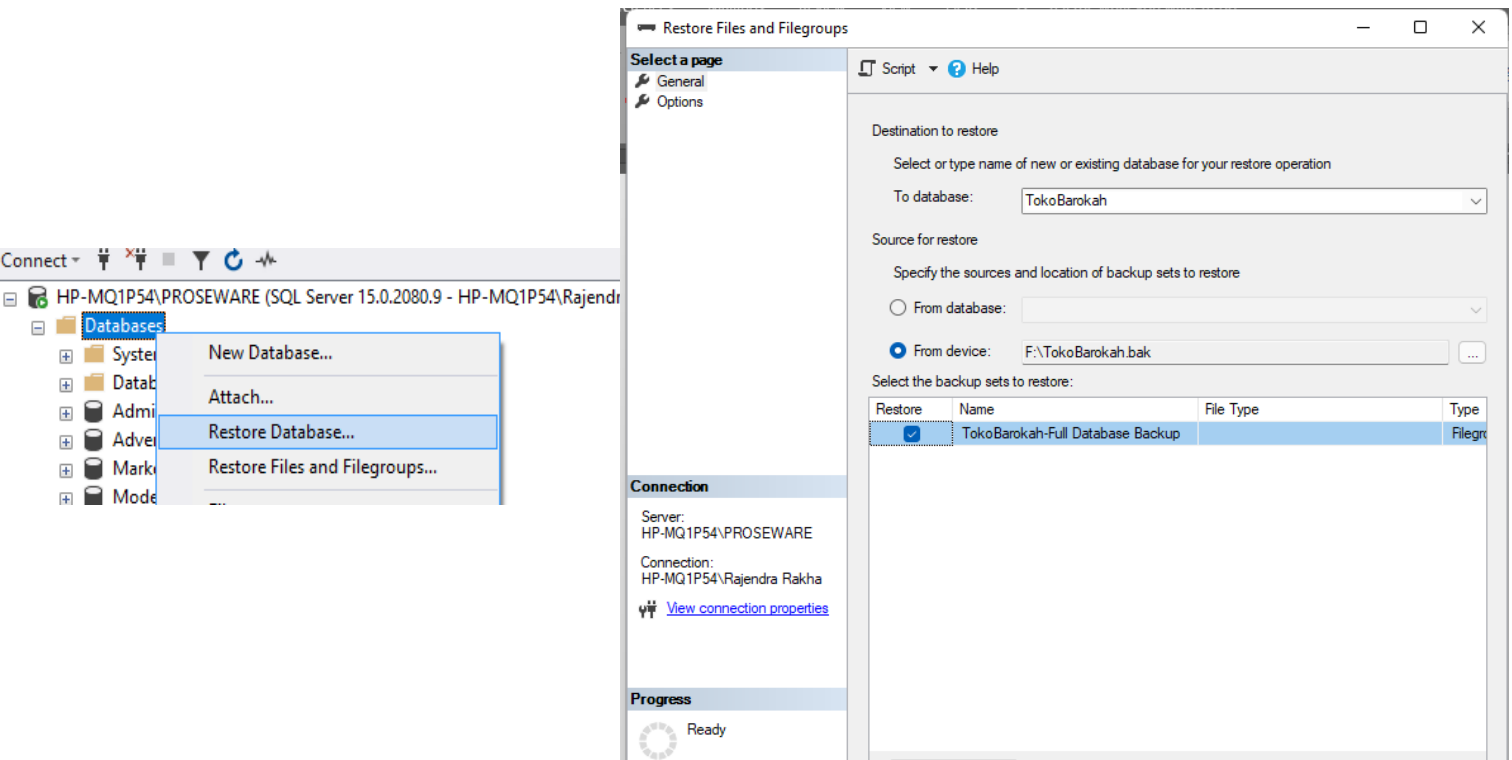
POLITEKNIK NEGERI MALANG



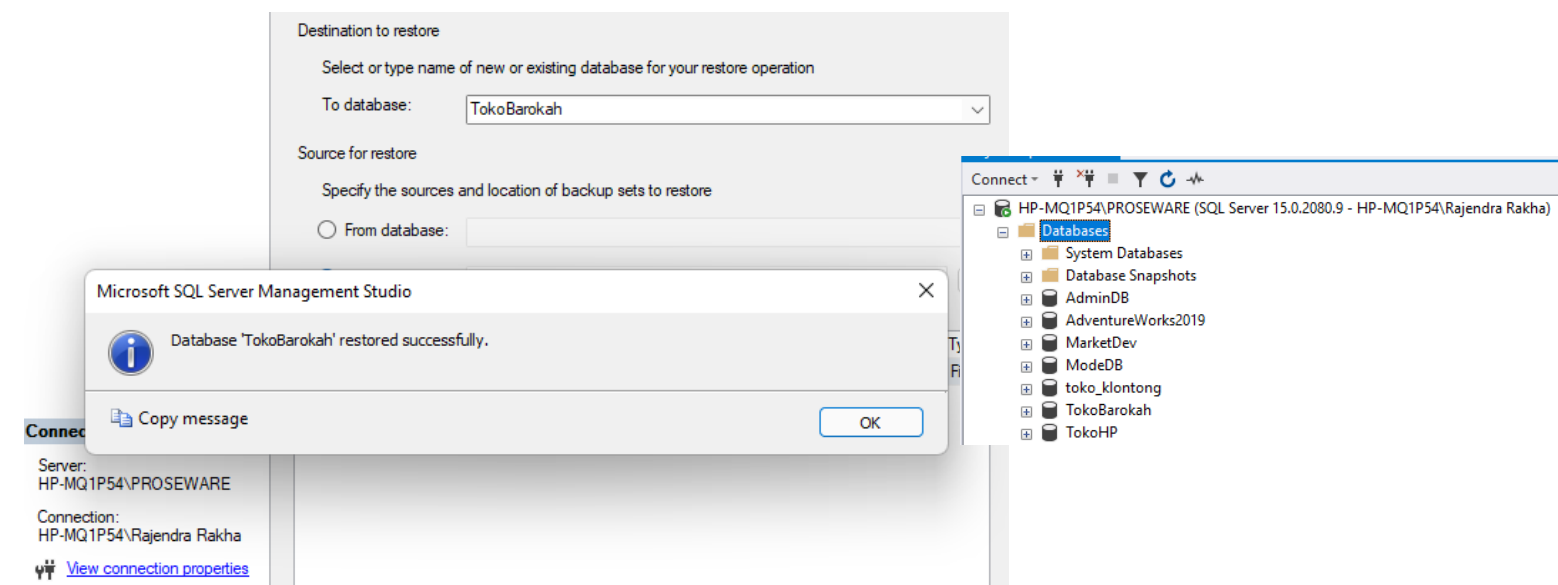
Practicum 1

(Create New Database)

1. Right Click On database then Select **Restore File and Filegroups** then OK



2. Sucessfully Restored





3. Restore Database using SQL Syntax

```
SQLQuery1.sql - HP...ajendra Rakha (54))* -> X Object Explorer
USE master;
GO

DROP DATABASE IF EXISTS TokoBarokahDW;
GO

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

USE TokoBarokahDW;
GO

-- Buat tabel dimensi barang
CREATE TABLE DimBarang (
    Id INT PRIMARY KEY IDENTITY,
    AltKey VARCHAR (50),

```

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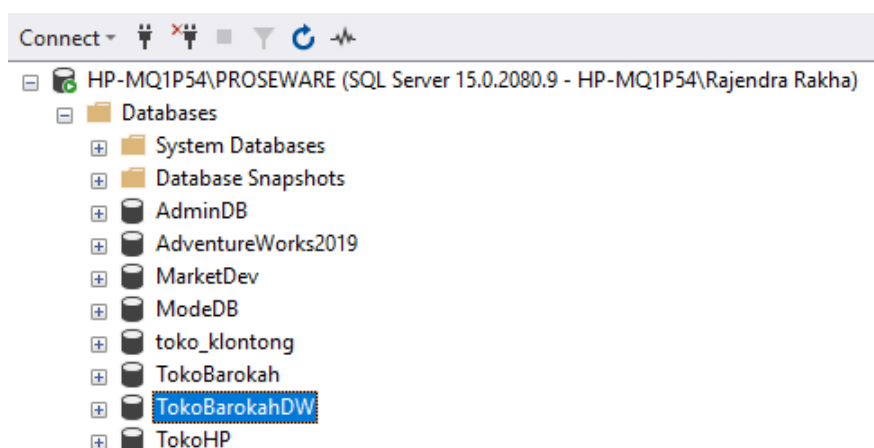
Messages

Commands completed successfully.

Completion time: 2021-12-07T12:17:08.8528312+07:00

99 %

Query executed successfully. | HP-MQ1P54\PROSEWARE (15.0 RTM) | HP-MQ1P54\Rajendra Rak... | TokoBarokahDW | 00:00:01 | 0 rows

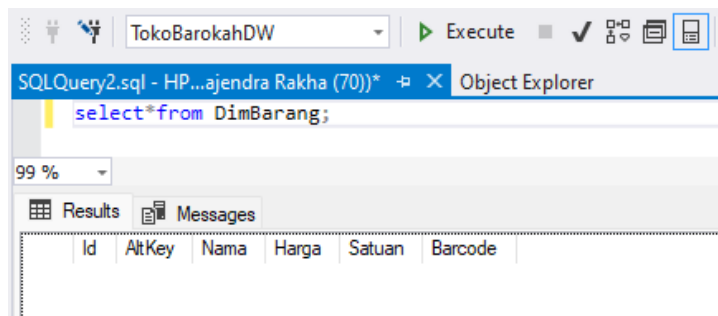




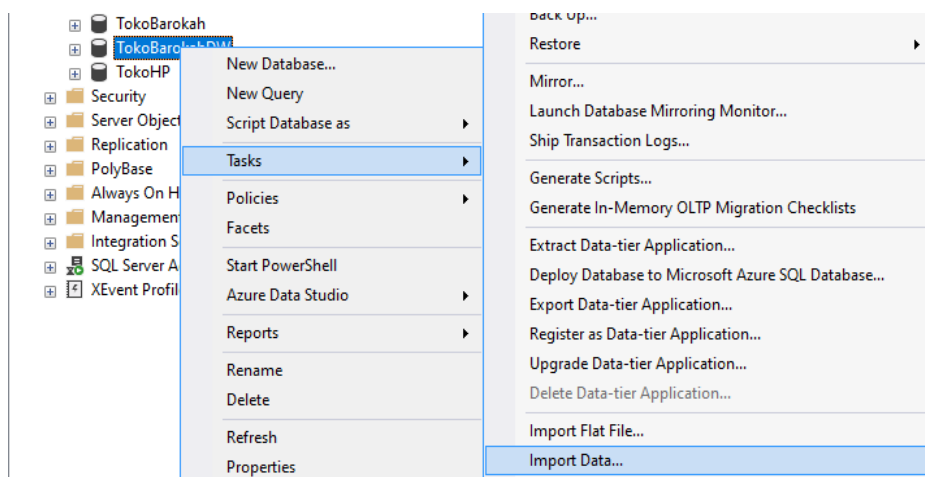
Practicum 2

(Executing ETL Logic With SSIS)

1. Right click on database TokoBarokahDW in Object Explorer.
Select New Query.
After that,type the following SQL query → **select * from Dimbarang**



2. fill in the DimBarang table with data from the Barang_toko_barokah.csv
Right-click on the TokoBarokahDW dataset in Object Explorer,
select Tasks > Import Data.





3. Select Flat File Source and Select Barang_toko_barokah.csv click Next

The screenshot shows the 'SQL Server Import and Export Wizard' window, specifically the 'Choose a Data Source' step. The 'Data source' dropdown is set to 'Flat File Source'. The 'File name' field contains 'C:\Users\Rajendra Rakha\Downloads\Toko-Barokah-Sa'. The 'Locale' is set to 'Indonesian (Indonesia)' and 'Unicode' is unchecked. The 'Code page' is set to '1252 (ANSI - Latin I)'. The 'Format' is set to 'Delimited'. The 'Text qualifier' is '<none>'. The 'Header row delimiter' is '(CR)(LF)'. The 'Header rows to skip' is '0'. The checkbox 'Column names in the first data row' is checked. A yellow warning box at the bottom states 'Columns are not defined for this connection manager.' The 'Next >' button is highlighted.

4. Select Sql Server Native Client Then choose your server and database tokobarokahDW

The screenshot shows the 'SQL Server Import and Export Wizard' window, specifically the 'Choose a Data Source' step. The 'Data source' dropdown is set to 'SQL Server Native Client 11.0'. The 'Server name' field contains 'HP-MQ1P54NPROSEWARE'. The 'Authentication' section has 'Use Windows Authentication' selected. The 'Database' dropdown is set to 'TokobarokahDW'. The 'Next >' button is highlighted.



5. Select the **table dbo.DimBarang** in the Destination section, Edit Like Picture Above then Click OK

The screenshot shows the 'Column Mappings' window of the SQL Server Import and Export Wizard. The 'Source' is 'C:\Users\Rajendra Rakha\Downloads\Toko-Barokah-Sample-DW-master\barang_toko_barokah.csv' and the 'Destination' is '[dbo].[DimBarang]'. The 'Append rows to the destination table' option is selected. The 'Mappings' table is as follows:

Source	Destination	Type	Nullable	Size	Precision	Scale
Kode	AltKey	varchar	<input checked="" type="checkbox"/>	50		
KodeSupplier	<ignore>					
Nama	Nama	varchar	<input checked="" type="checkbox"/>	50		
Harga	Harga	varchar	<input checked="" type="checkbox"/>	50		
Satuan	Satuan	varchar	<input checked="" type="checkbox"/>	50		
Barcode	Barcode	varchar	<input checked="" type="checkbox"/>	50		

Source column: Barcode string [DT_STR] (50)

Buttons: OK, Cancel

6. Save and Run Package then **check the Save SSIS Package& File System** Then Click Next.

The screenshot shows the 'Save and Run Package' window of the SQL Server Import and Export Wizard. The title is 'Save and Run Package' with the subtitle 'Indicate whether to save the SSIS package.' The 'Run immediately' and 'Save SSIS Package' options are checked. Under 'Save SSIS Package', 'SQL Server' is selected. The 'Package protection level' is set to 'Encrypt sensitive data with user key'. There are fields for 'Password' and 'Retype password'.

Run immediately ☒

Save SSIS Package ☒

SQL Server ☒

File system ☐

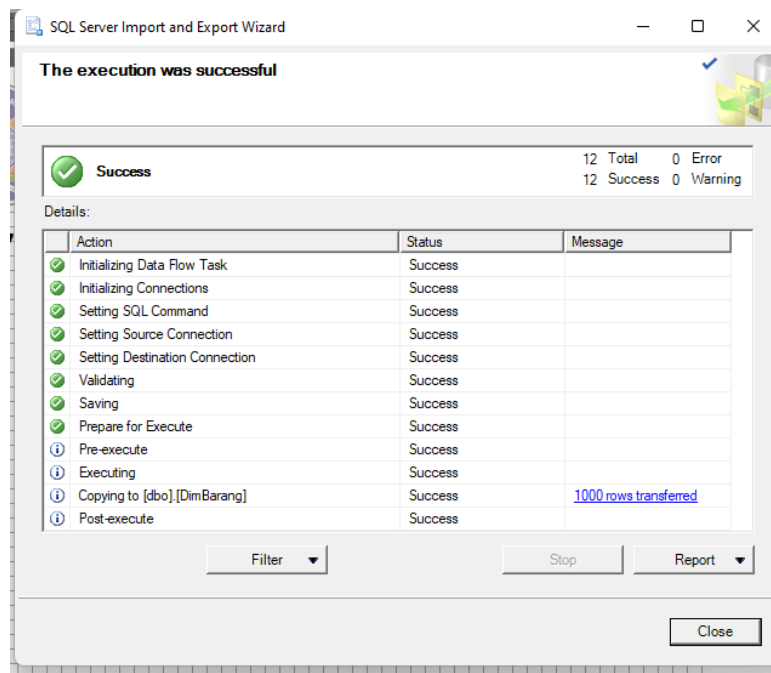
Package protection level: Encrypt sensitive data with user key

Password:

Retype password:



Result



7. View the data that has been loaded into the DimBarang table by running **select*from DimBarang**

SQLQuery2.sql - HP...ajendra Rakha (70)* Object Explorer

select*from DimBarang;

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Id	AltKey	Nama	Harga	Satuan	Barcode
1	1	MR SABUN MUTIARA 85 GR	13406.25	PCS	8995151110291
2	2	SOKLIN SMART WHITE 800	17250.00	DOS	8998866605809
3	3	NIVEA FAC SCRUB 100 GR	14113.75	PCS	8999777811242
4	4	NIVEA GENTLE FAC.WASH 100	15682.50	PCS	8999777811112
5	5	NIVEA GENTLE FCL SCRUB 40	6118.75	PCS	8999777811495
6	6	DELFI BRIKO VAN 125 GR	6270.00	PCS	8991001780218
7	7	SELAMAT WFR CHOCO 198	6270.00	PCS	8991001780492
8	8	NUVO REFF KUNING/GOLD 250	7115.00	PCS	8998866602990
9	9	NUVO REFF HIJAU 250	7187.50	PCS	8998866602983
10	10	NUVO FAMILY MERAH 80G	1281.25	PCS	8998866602556
11	11	NUVO FAMILY BIRU 80GR	1393.75	PCS	8998866602549
12	12	NUVO FAMILY KNG 80GR	1393.75	PCS	8998866602570
13	13	NUVO FAMILY HIJAU 80GR	1281.25	PCS	8998866602563
14	14	SOKLIN SMART COLOUR SASET	2971.25	PCS	8999999392963
15	15	NUVO REFF MERAH 250ML	7187.50	PCS	8998866602976
16	16	NUVO REFF PUTIH 250	7115.00	PCS	8998866602969
17	17	BOOM JERUK NIPIS 1 KG	5625.00	PCS	8999999390525
18	18	NUVO FAMILY COOL	1393.75	PCS	8998866606158
19	19	SEPATU GHEST 0901	10875.00	PCS	104
20	20	ROMA SARI GANDUM ROLL 149	3951.25	DOS	8996001302248
21	21	IMPERIAL BW ERIG 250	11825.00	PCS	8999999390549
22	22	DAHLIA REF CF ALL VAR K-241	10057.50	PCS	8886012824139
23	23	MUKENA AL MADINAH TERUSAN	6460.00	PCS	
24	24	HIT AER EXPERT BLOOM TEA 225	1082.50	PCS	8992745705604
25	25	SEPATU KITANO KN	1662.50	PCS	1057

Query executed successfully. HP-MQ1P54\PROSEWARE (15.0 RTM) HP-MQ1P54\Rajendra Rak... TokoBarokahDW 00:00:00 1,000 rows

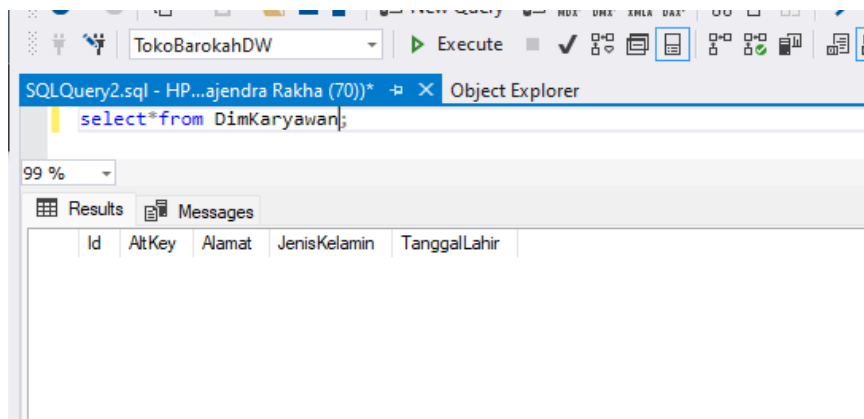
Ready Ln 1 Col 1 Ch 1 INS



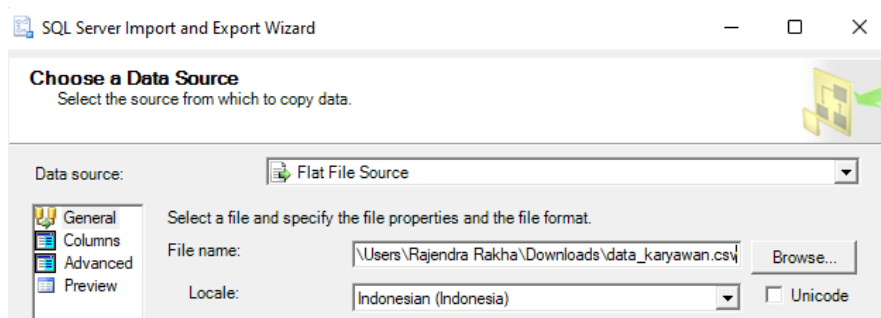
Task

(Fill data_karyawan with Data_Karyawan.csv)

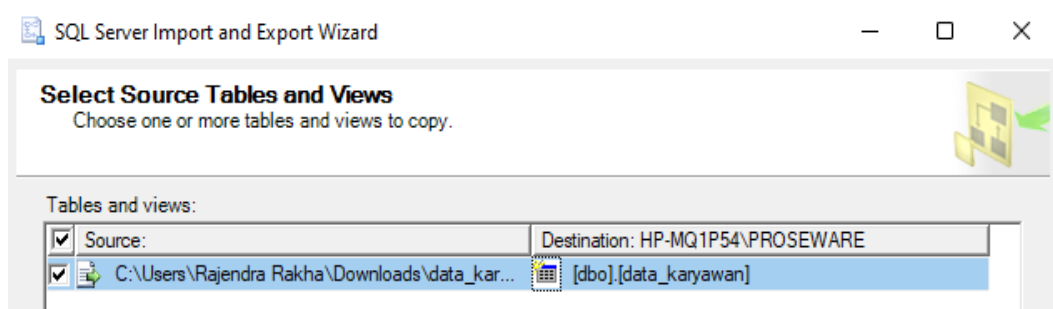
1. Before Filling with csv Data



2. Do Step Like Practicum 2
3. Select Data_Karyawan.csv

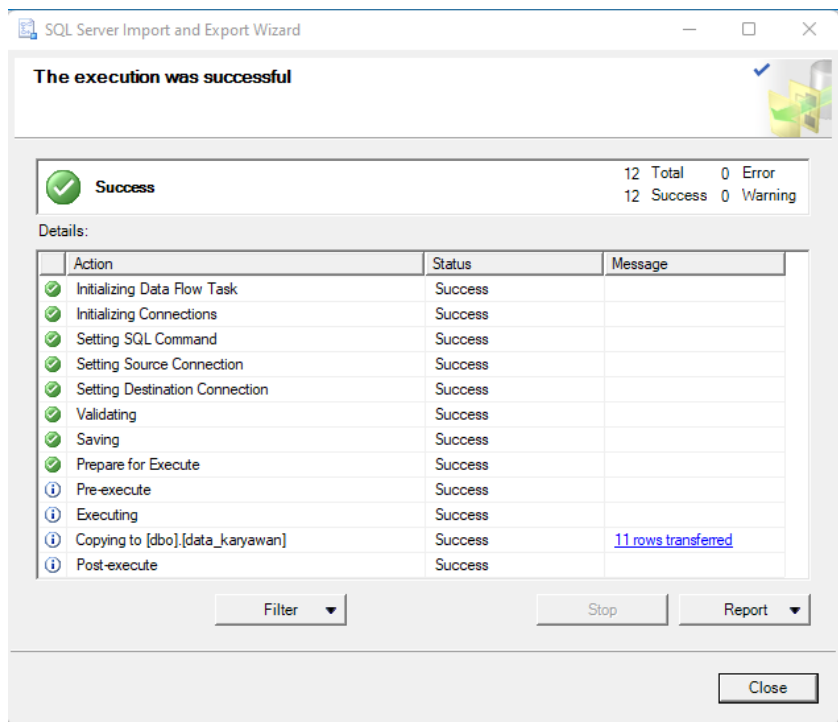


4. Choose Destination





RESULT



5. view the data that has been loaded into the DataKaryawan table by
Select*from data_karyawan;

