

Create First Data Warehouse - 1

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## Create First Data Warehouse

Mubin M. Shaikh  
14 Sep 2013 CPOL 10 min read  
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In this article, I am going to show you the importance of data warehouse.

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### Introduction

In this article, I am going to show you the importance of data warehouse? Why and when does an organization or company need to plan to go for data warehouse designing? We will take a quick look at the various concepts and then by taking one small scenario, we will design our First data warehouse and populate it with test data.

If you are thinking what is data warehouse, let me explain in brief, data warehouse is integrated, non volatile, subject oriented and time variant storage of data. Whenever your data is distributed across various databases, application or at various places stored in different formats and you want to convert this data into useful information by integrating and creating unique storage at a single location for these distributed data at that time, you need to start thinking to use data warehouse.

In another case, if your daily transactional data entry is very huge in your database, maybe millions or billions of records, then you need to archive these data to another Archive database which holds your historical data to remove load from live database and if you are creating your two dimensional report on this archive database then your report generation is very slow on that data it may take couple of minutes to couple of hours or it can give you timeout error. On this two dimensional data, even you cannot do any type of trend analysis on your

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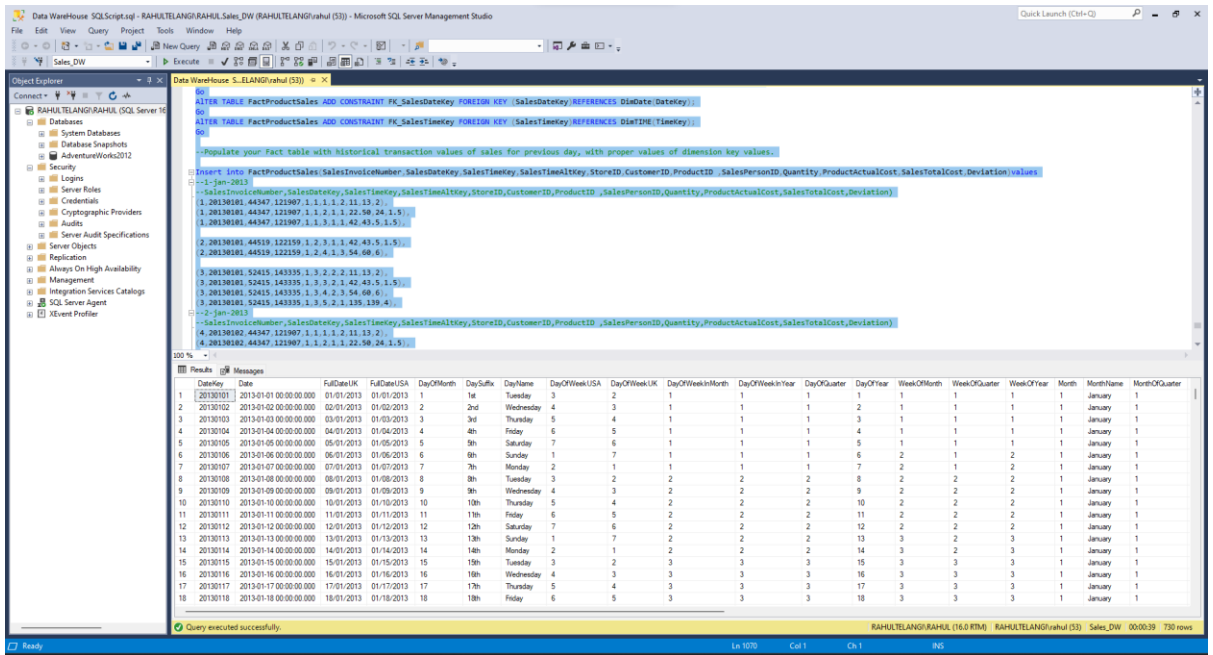
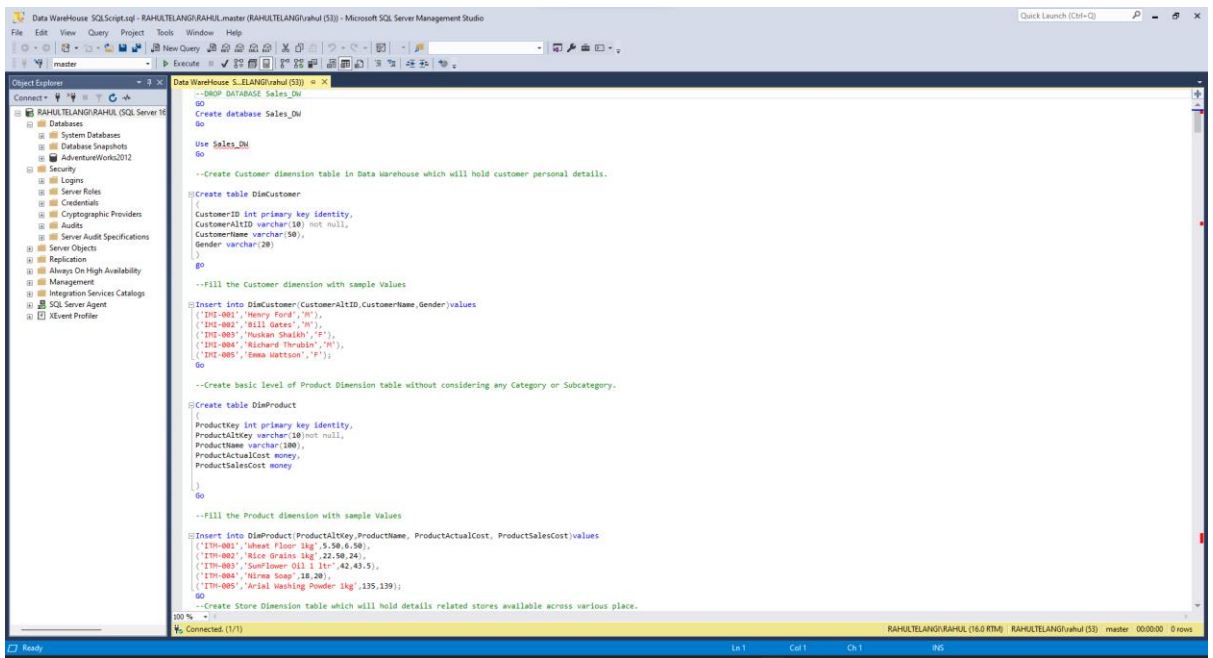
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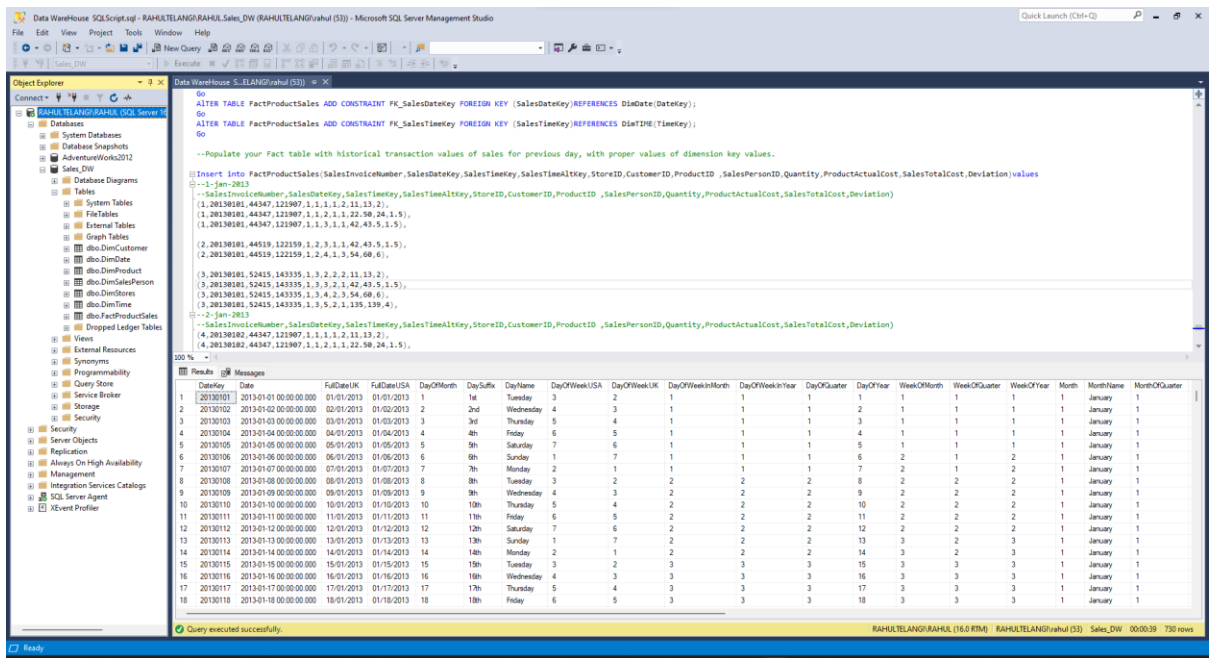
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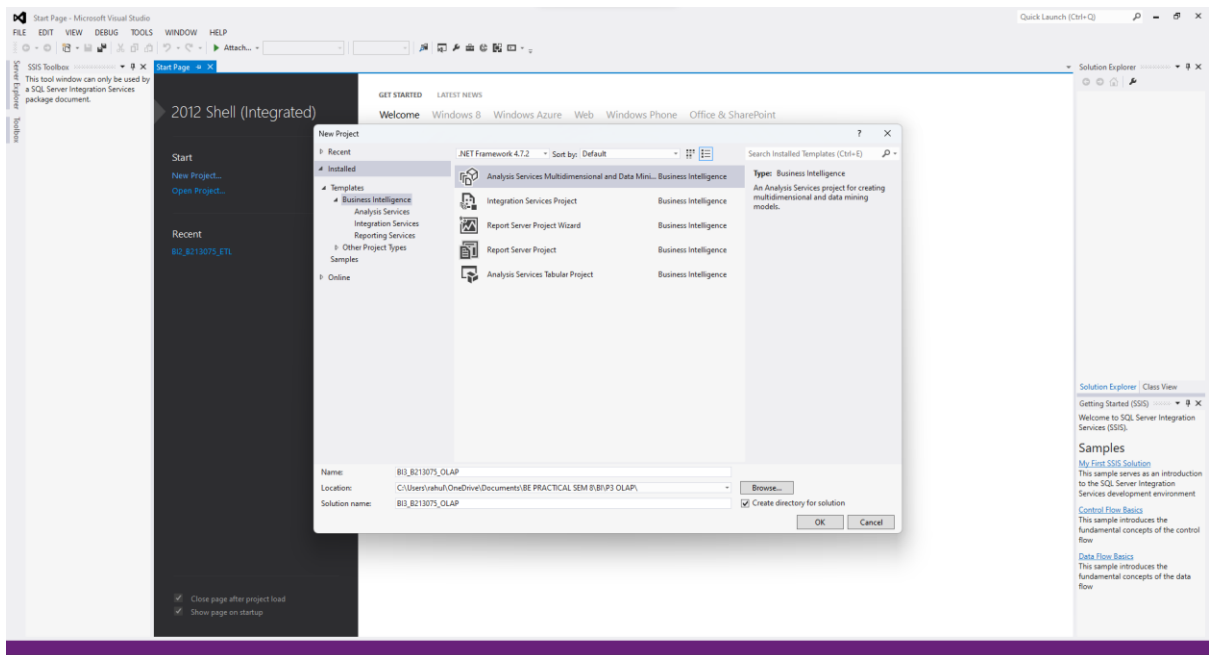
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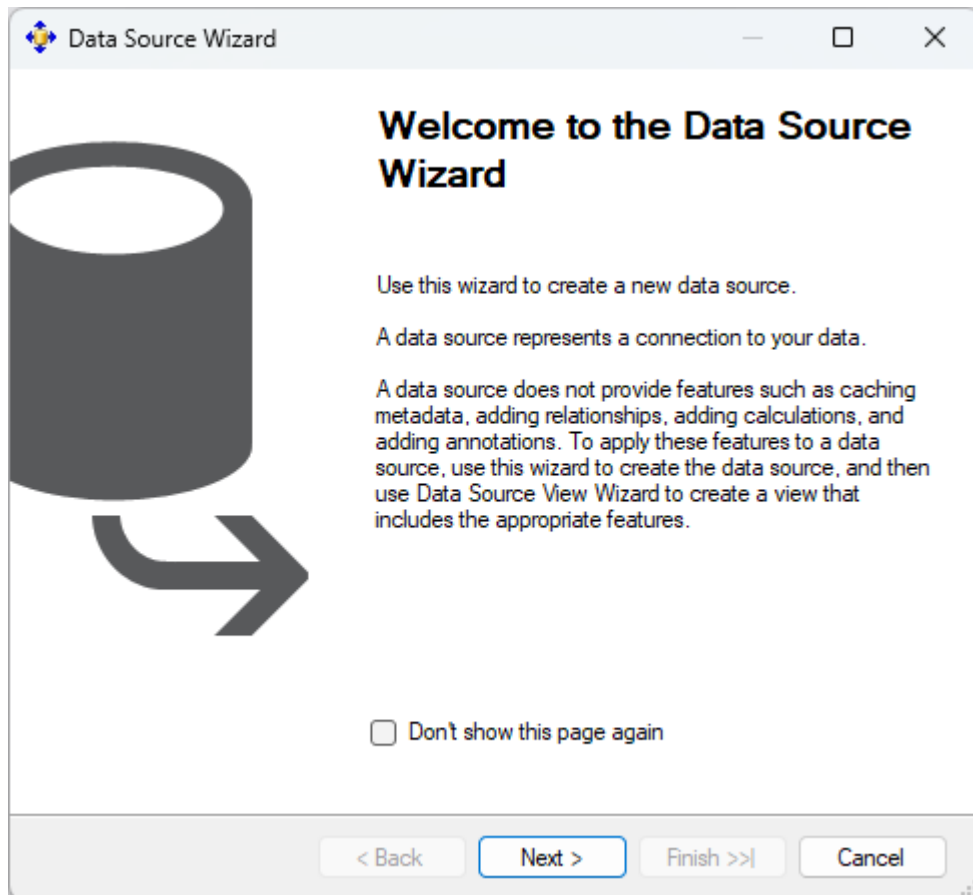




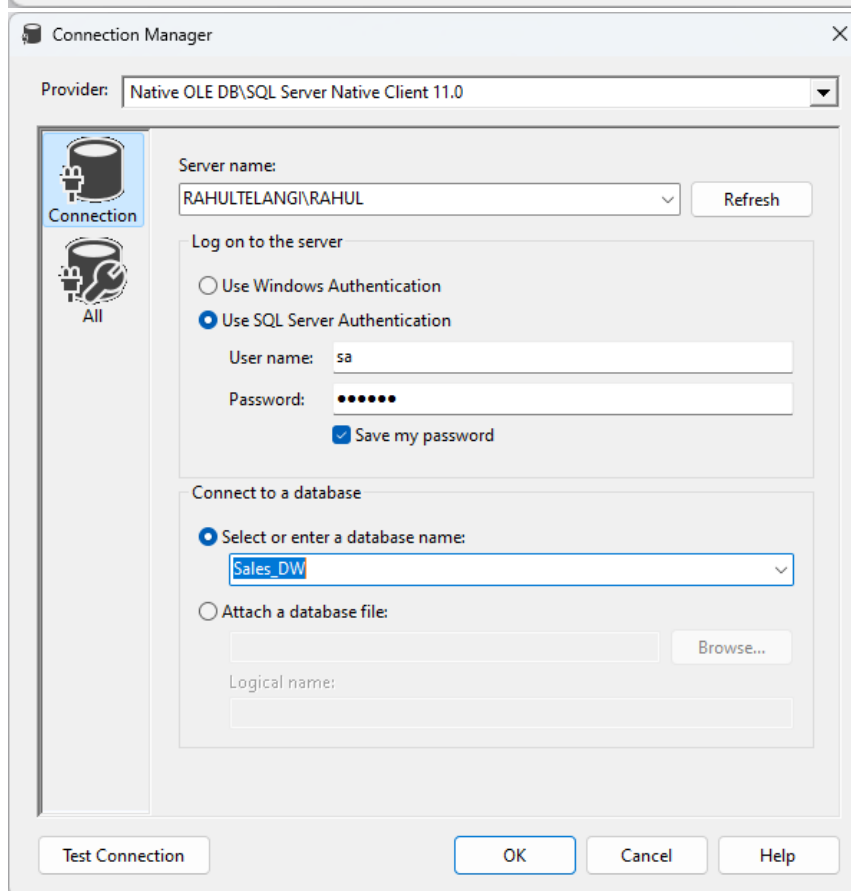
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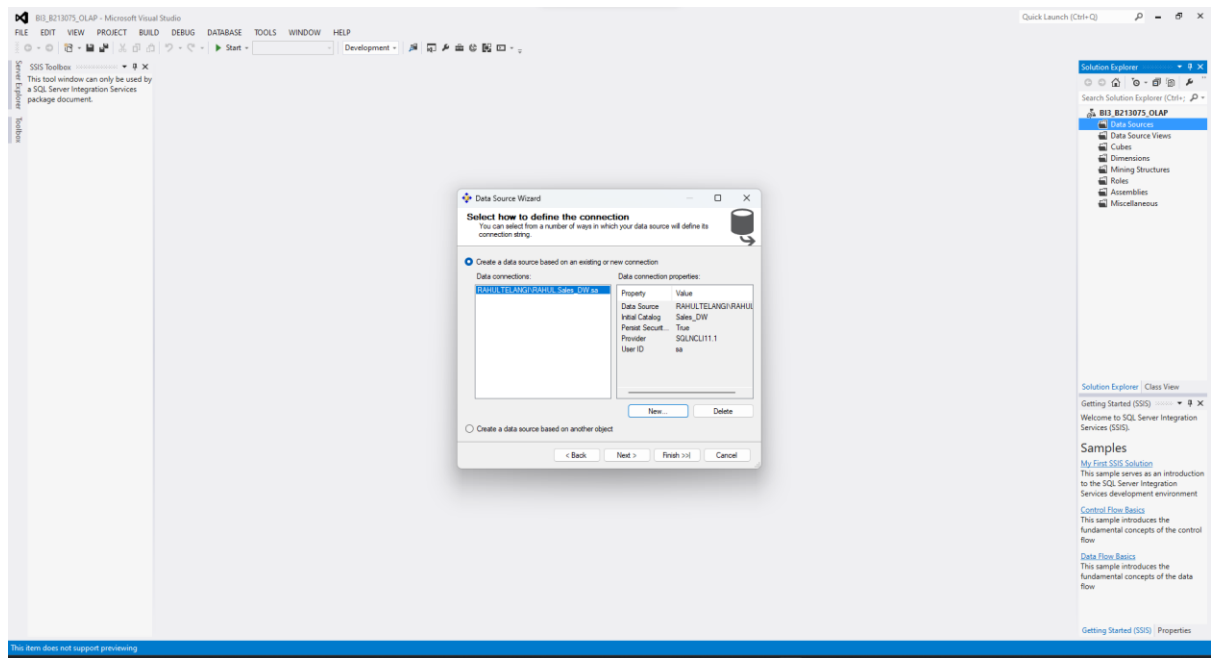
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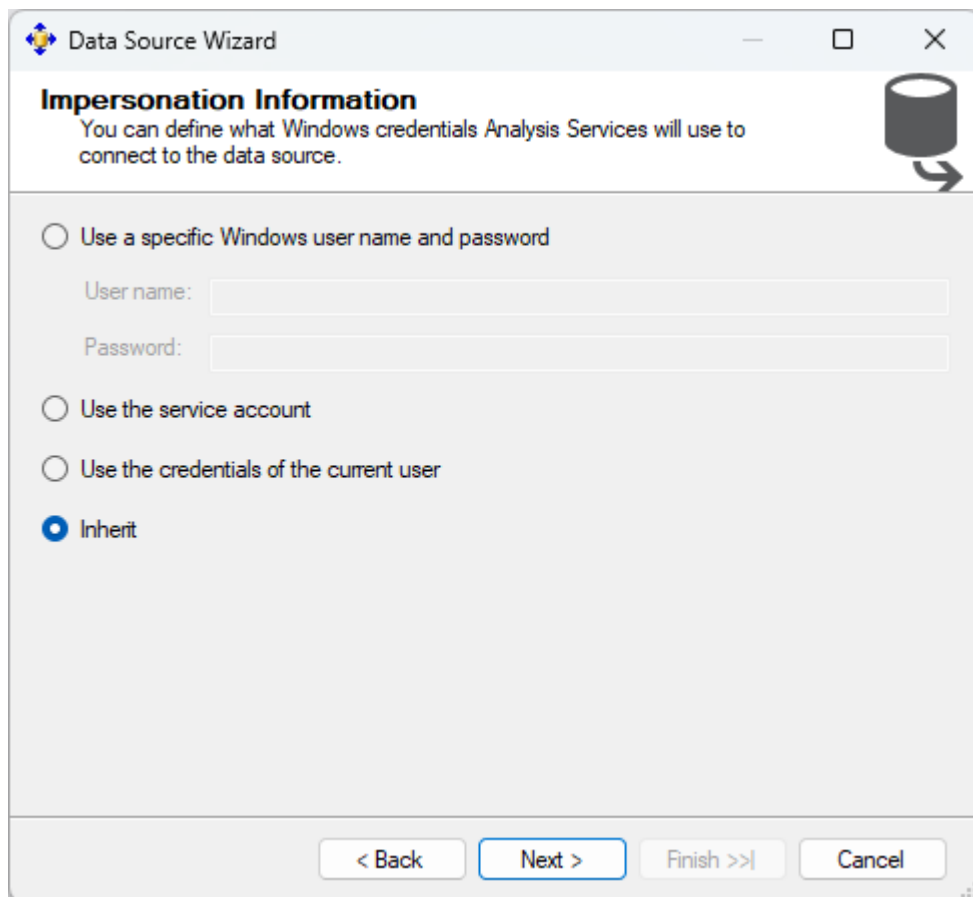
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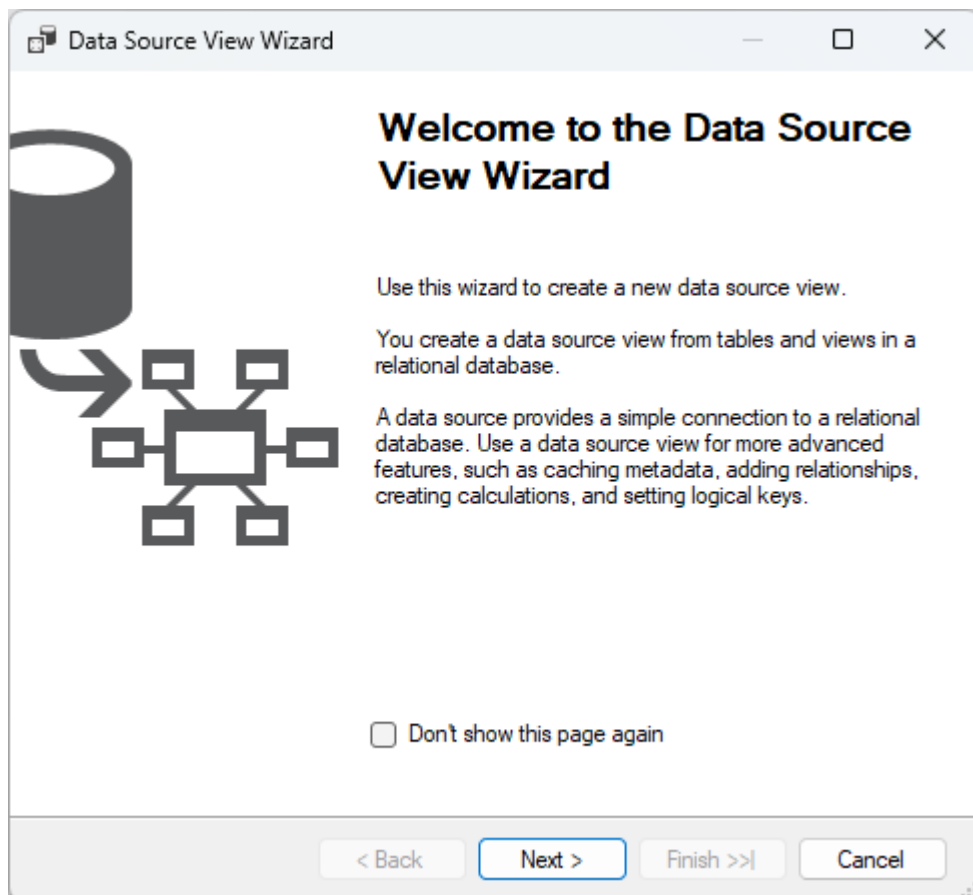
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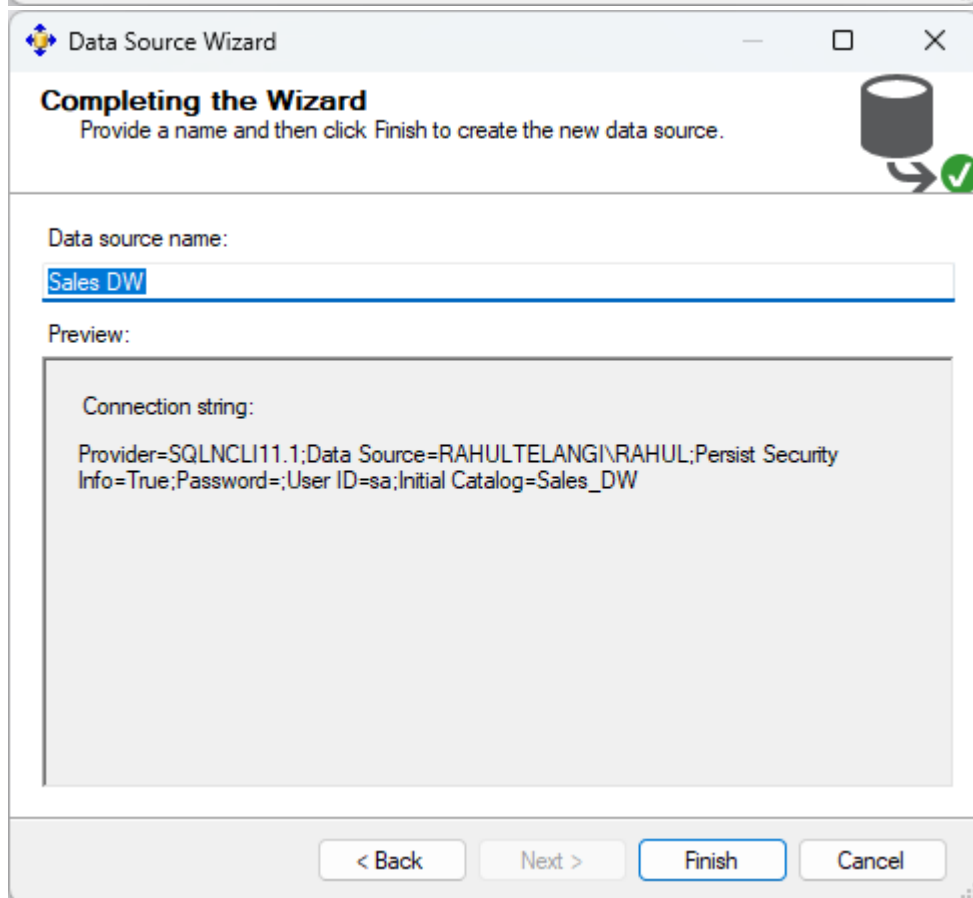
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**Data Source View Wizard**

**Select a Data Source**  
Select an existing relational data source or create a new one.

Relational data sources:

Property	Value
Data Source	RAHULTELANGI\RAHUL
Initial Catalog	Sales_DW
Persist Securit...	True
Provider	SQLNCLI11.1
User ID	sa

14.

**Data Source View Wizard**

**Select Tables and Views**  
Select objects from the relational database to be included in the data source view.

Available objects:

Name	Type
DimStores (dbo)	Table
DimProduct (dbo)	Table
DimTime (dbo)	Table
DimDate (dbo)	Table
DimCustomer (dbo)	Table
DimSalesPerson (d...	Table

☐ Show system objects

**Data Source View Wizard**

### Select Tables and Views

Select objects from the relational database to be included in the data source view.

Available objects:

Name	Type
------	------

Included objects:

Name	Type
FactProductSales...	Table
DimStores (dbo)	Table
DimProduct (dbo)	Table
DimTime (dbo)	Table
DimDate (dbo)	Table
DimCustomer (dbo)	Table
DimSalesPerson (...)	Table

Filter:

☐ Show system objects

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**Data Source View Wizard**

### Completing the Wizard

Provide a name, and then click Finish to create the new data source view.

Name:

Sales DW

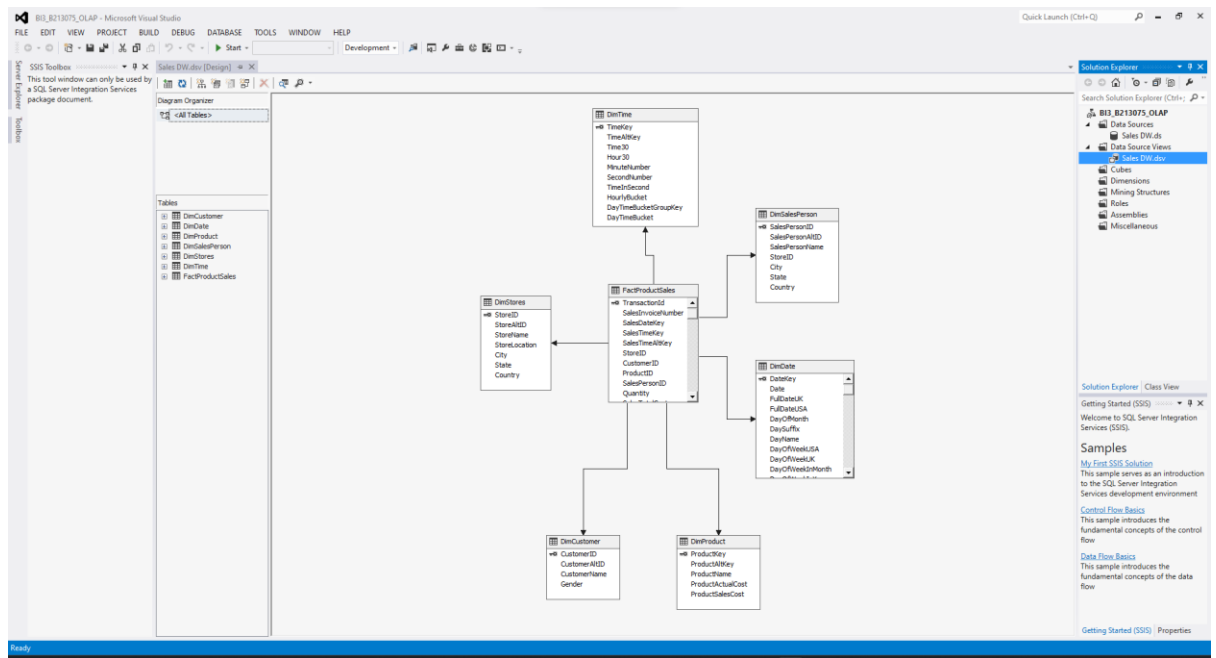
Preview:

Sales DW

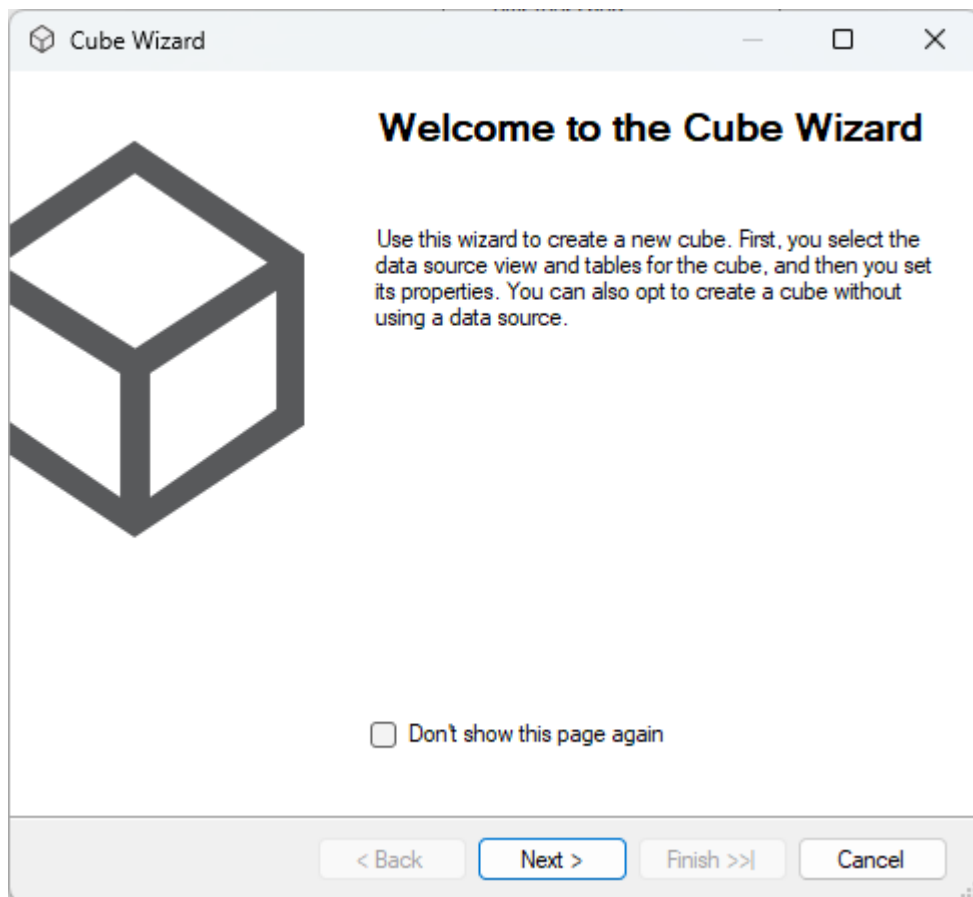
- FactProductSales (dbo)
- DimStores (dbo)
- DimProduct (dbo)
- DimTime (dbo)
- DimDate (dbo)
- DimCustomer (dbo)
- DimSalesPerson (dbo)

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Cube Wizard

### Select Creation Method

Cubes can be created by using existing tables, creating an empty cube, or generating tables in the data source.

How would you like to create the cube?

☒ Use existing tables  
☐ Create an empty cube  
☐ Generate tables in the data source

Template:

(None)

Description:

Create a cube based on one or more tables in a data source.

< Back

Next >

Finish >>

Cancel

20.

Cube Wizard

### Select Measure Group Tables

Select a data source view or diagram and then select the tables that will be used for measure groups.

Data source view:

Sales DW

Measure group tables:

Suggest

☒ FactProductSales  
☐ DimStores  
☐ DimProduct  
☐ DimTime  
☐ DimDate  
☐ DimCustomer  
☐ DimSalesPerson

< Back

Next >

Finish >>

Cancel

Cube Wizard

### Select Measures

Select measures that you want to include in the cube.

☒ Measure

- ☒ Fact Product Sales
  - ☒ Sales Invoice Number
  - ☒ Sales Time Alt Key
  - ☒ Quantity
  - ☒ Sales Total Cost
  - ☒ Product Actual Cost
  - ☒ Deviation
  - ☒ Fact Product Sales Count

< Back   Next >   Finish >>   Cancel

21.

Cube Wizard

### Select New Dimensions

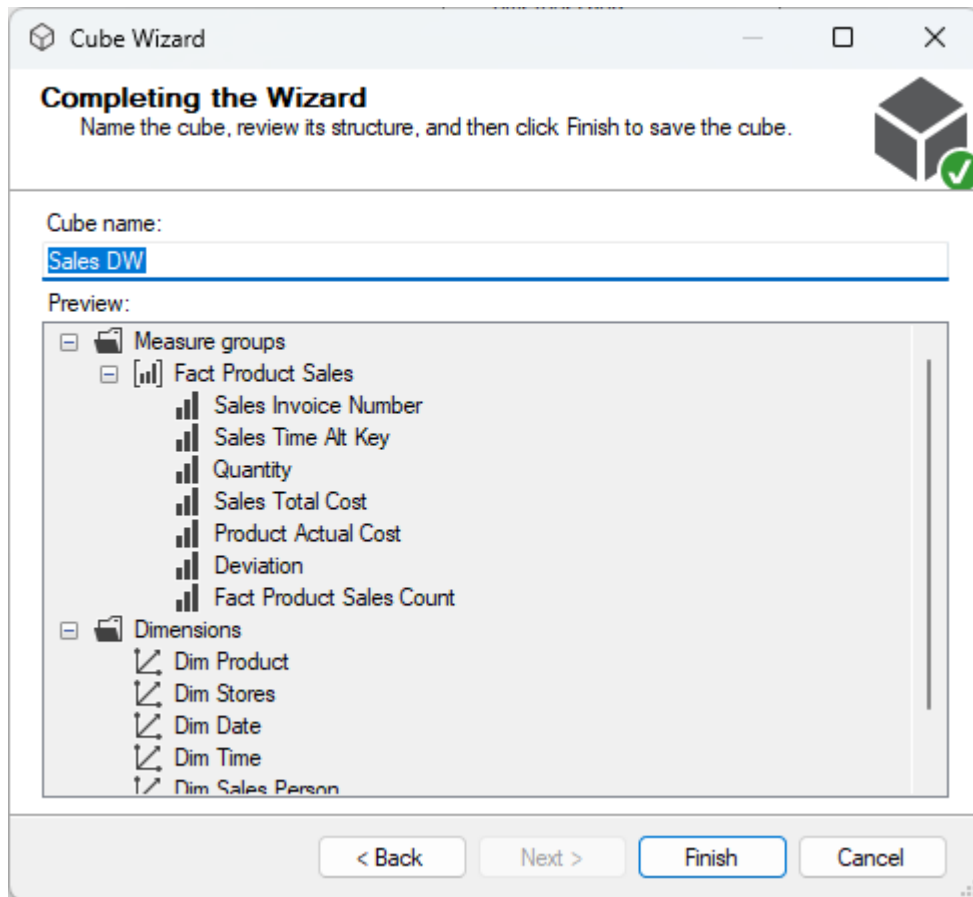
Select new dimensions to be created, based on available tables.

☒ Dimension

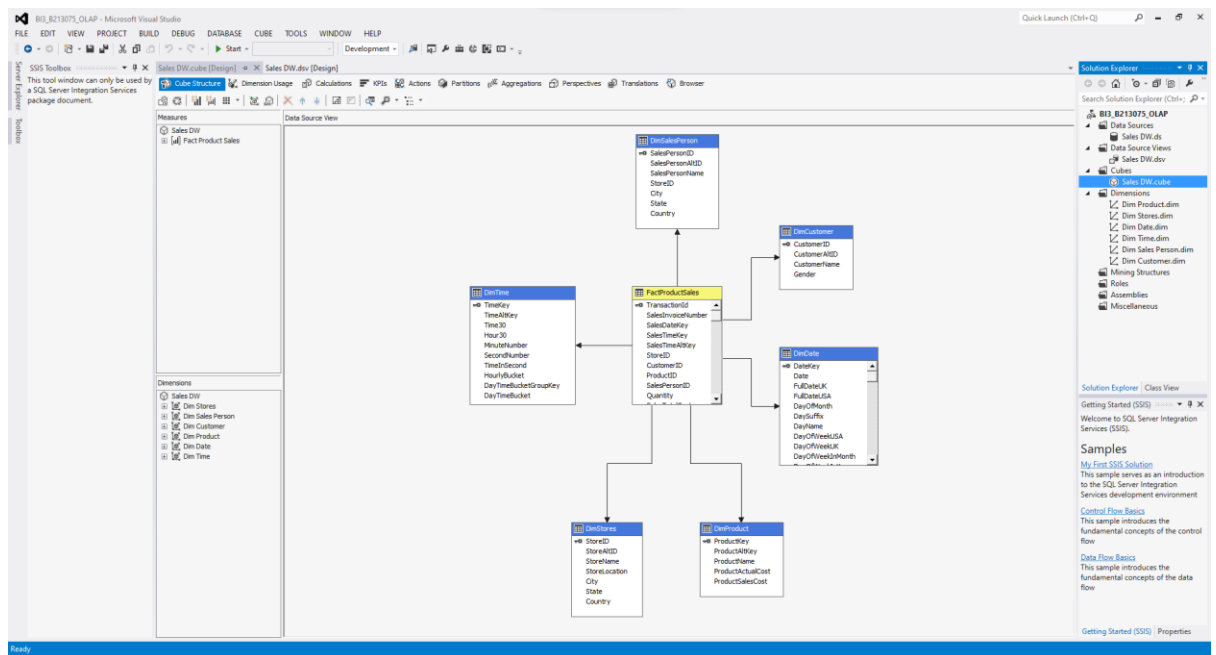
- ☒ Dim Product
  - ☒ DimProduct
- ☒ Dim Stores
  - ☒ DimStores
- ☒ Dim Date
  - ☒ DimDate
- ☒ Dim Time
  - ☒ DimTime
- ☒ Dim Sales Person
  - ☒ DimSalesPerson
- ☒ Dim Customer
  - ☒ DimCustomer

< Back   Next >   Finish >>   Cancel

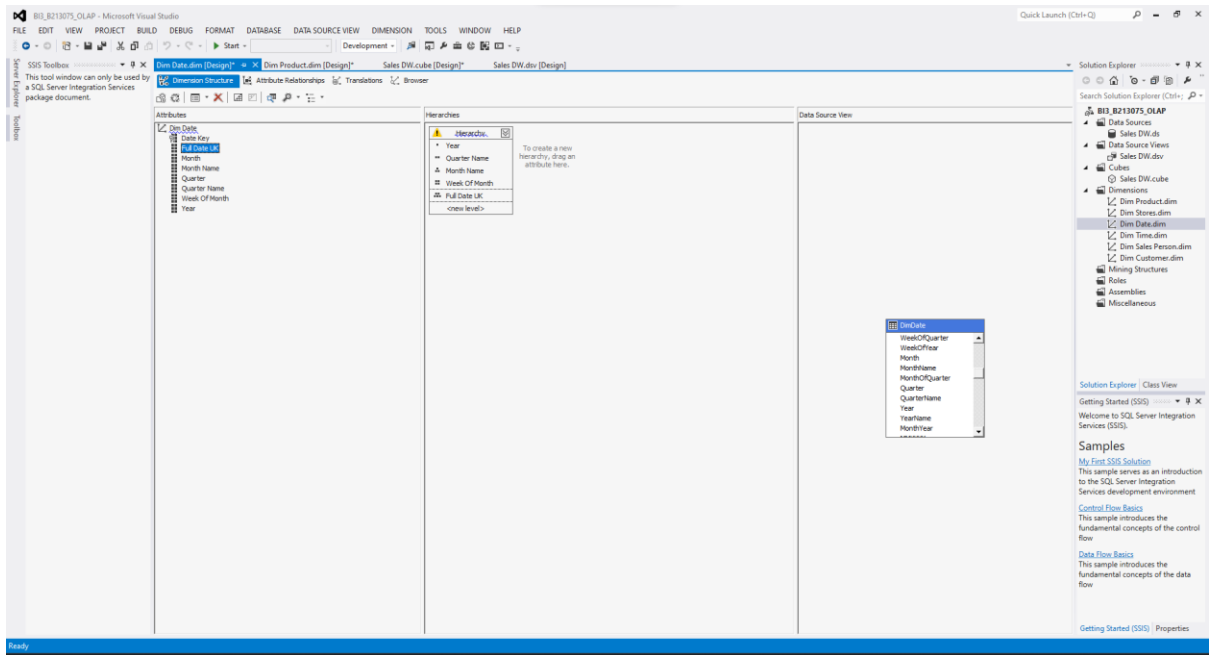
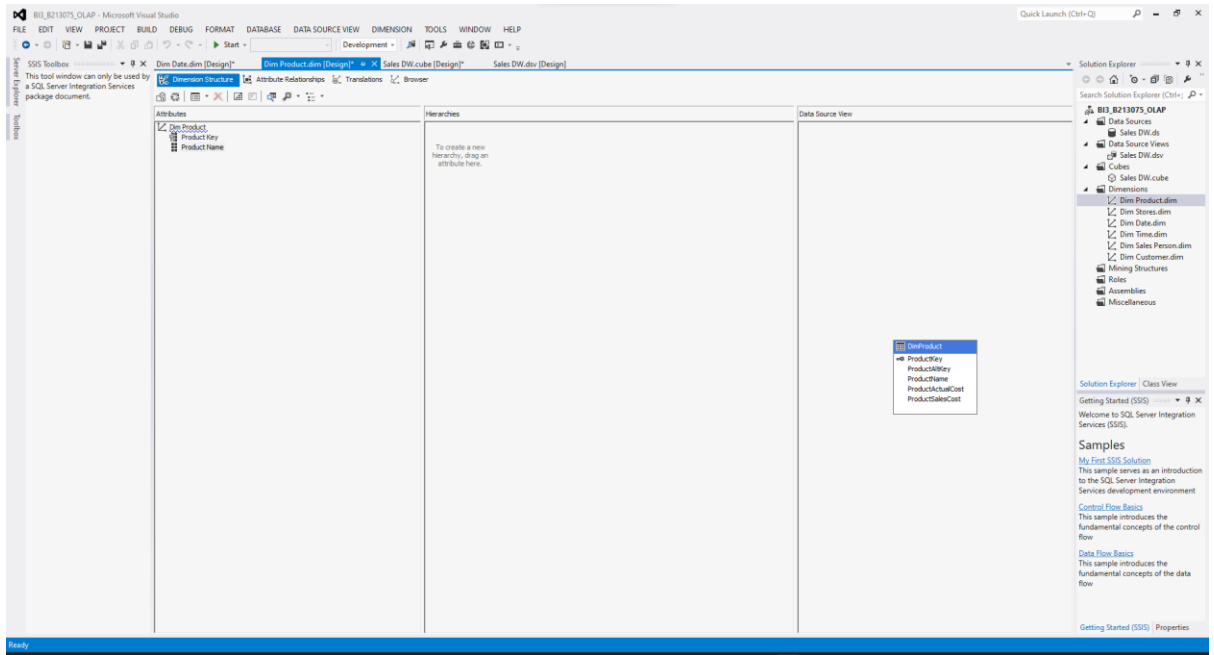
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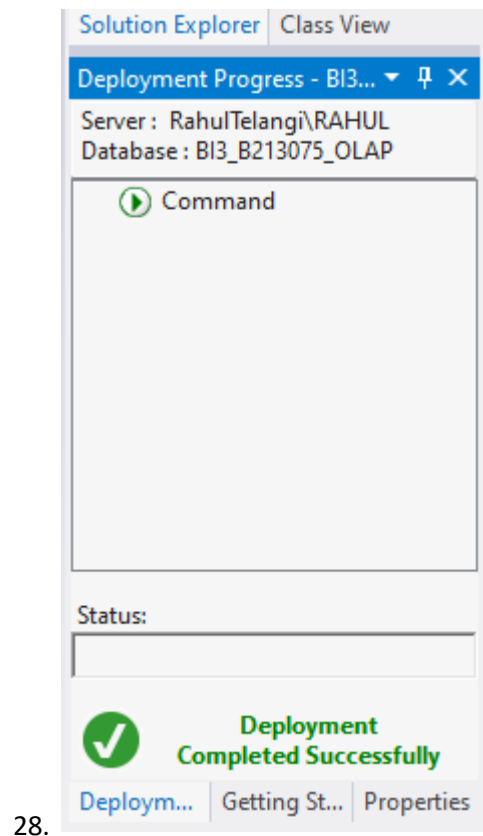
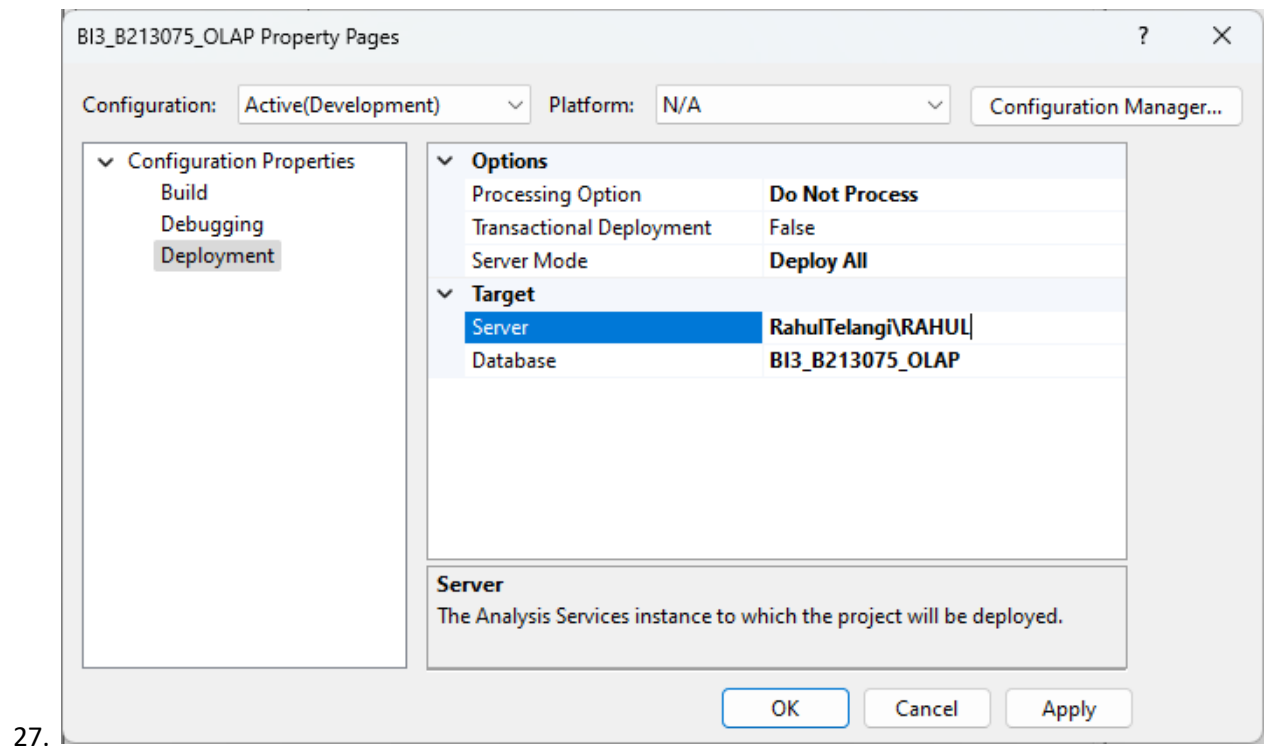


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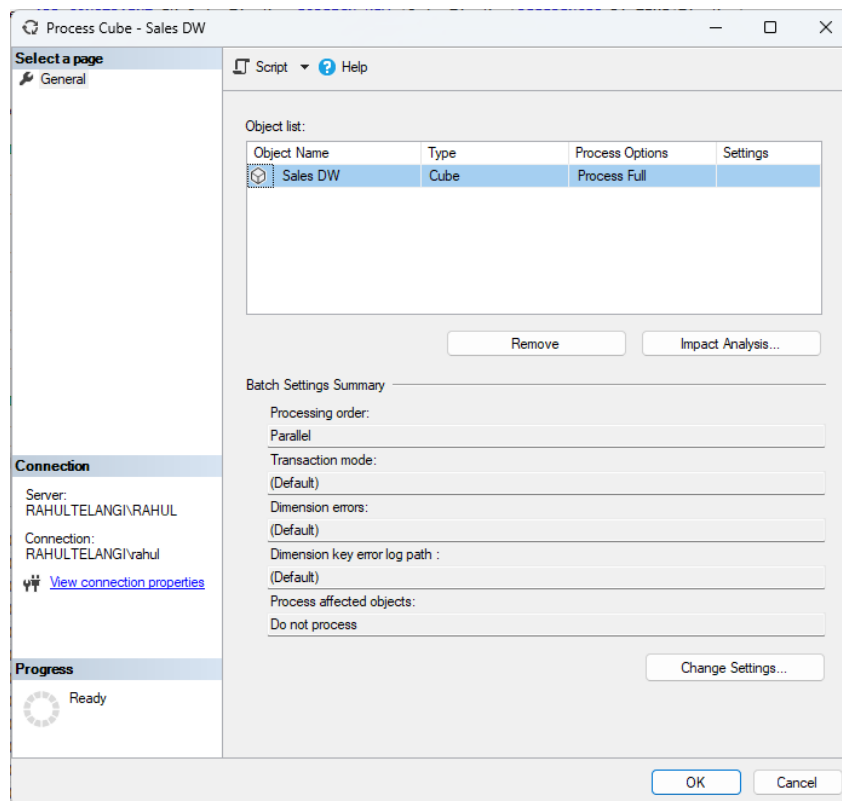


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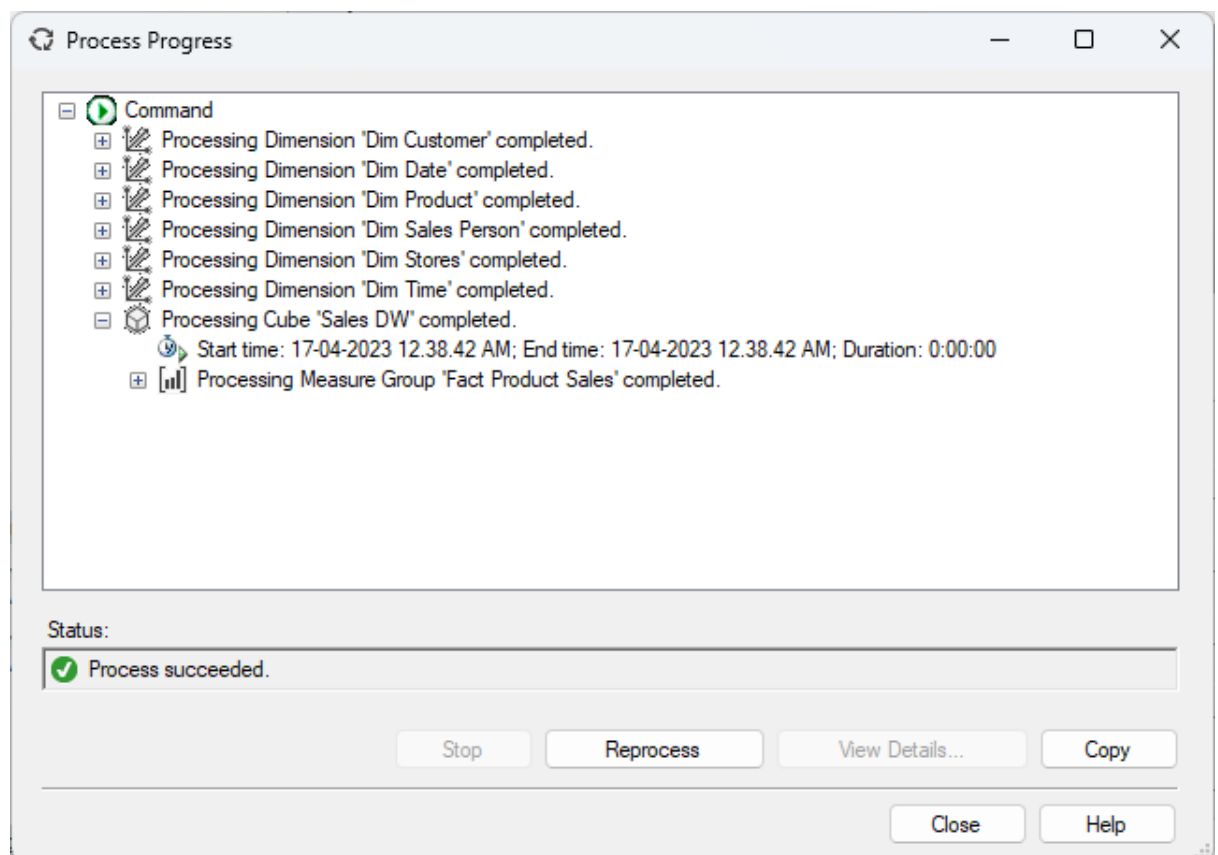


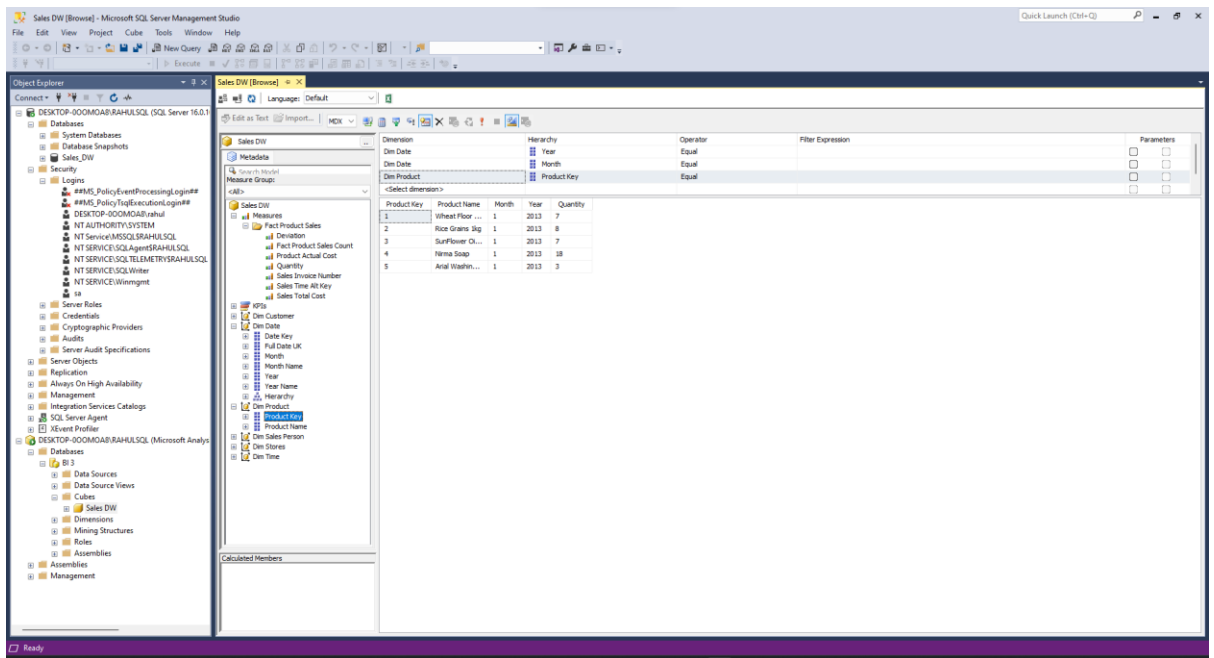


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