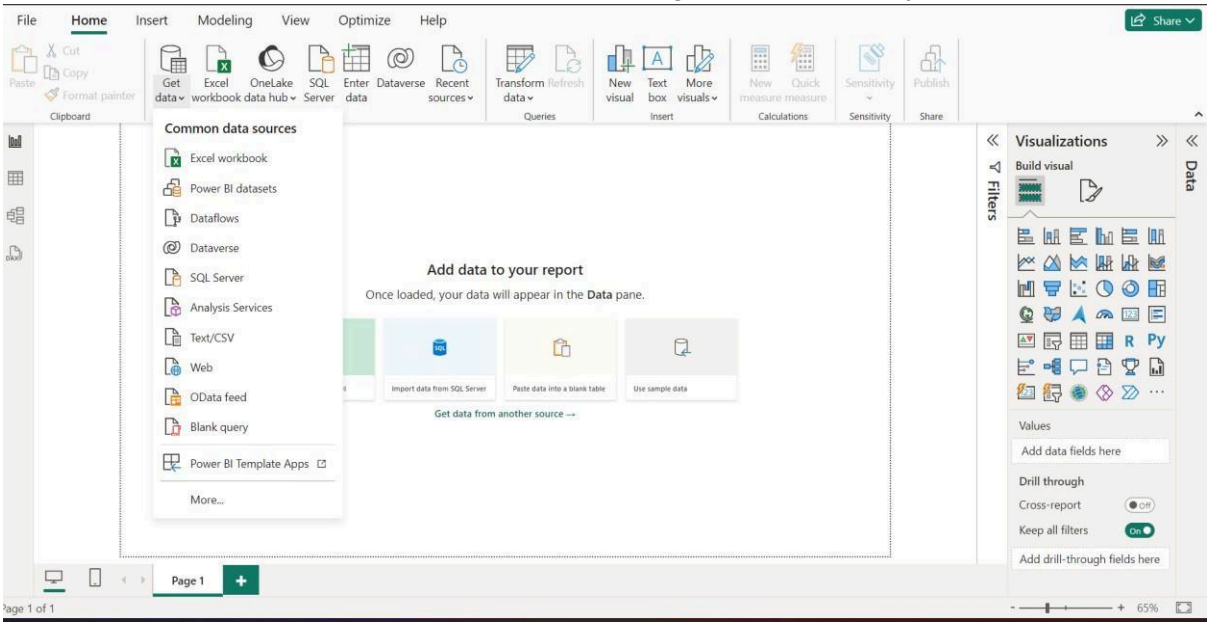
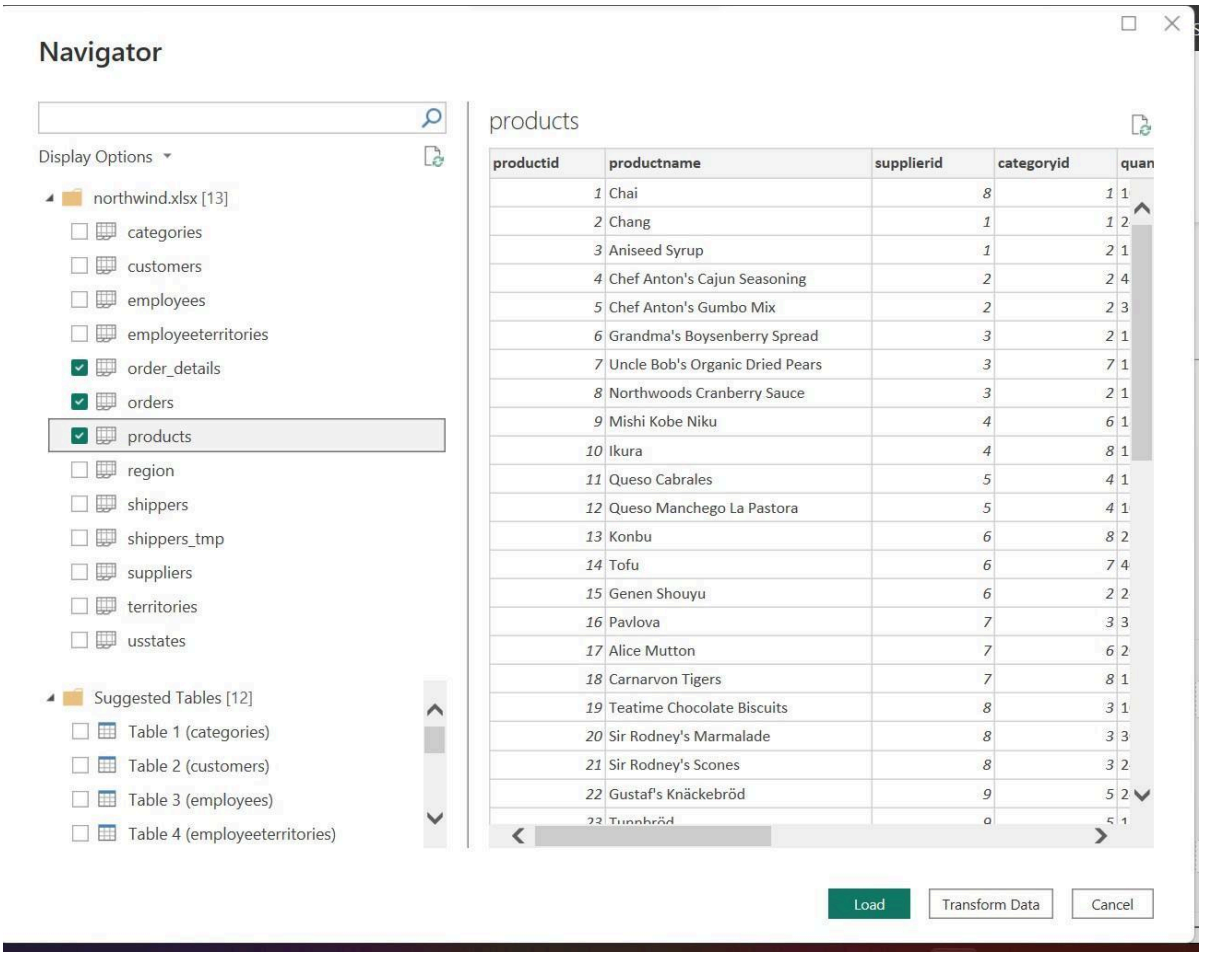
Practical No:1

Get data from Excel

Step 1: Open Power BI & Click on Get data following list will be displayed → select Excel



Step2: Select required file and click on Open, Navigator screen appears



productid	productname	supplierid	categoryid	quan
1	Chai	8	1	1
2	Chang	1	1	2
3	Aniseed Syrup	1	2	1
4	Chef Anton's Cajun Seasoning	2	2	4
5	Chef Anton's Gumbo Mix	2	2	3
6	Grandma's Boysenberry Spread	3	2	1
7	Uncle Bob's Organic Dried Pears	3	7	1
8	Northwoods Cranberry Sauce	3	2	1
9	Mishi Kobe Niku	4	6	1
10	Ikura	4	8	1
11	Queso Cabrales	5	4	1
12	Queso Manchego La Pastora	5	4	1
13	Konbu	6	8	2
14	Tofu	6	7	4
15	Genen Shouyu	6	2	2
16	Pavlova	7	3	3
17	Alice Mutton	7	6	2
18	Carnarvon Tigers	7	8	1
19	Teatime Chocolate Biscuits	8	3	1
20	Sir Rodney's Marmalade	8	3	3
21	Sir Rodney's Scones	8	3	2
22	Gustaf's Knäckebröd	9	5	2
23	Tunnbröd	9	5	1

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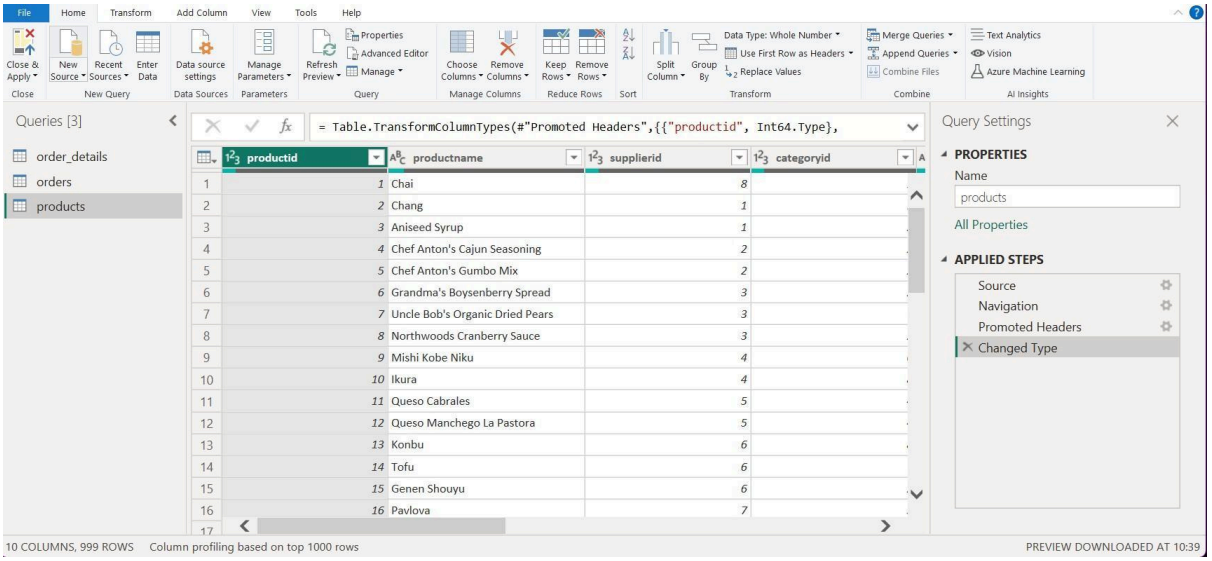
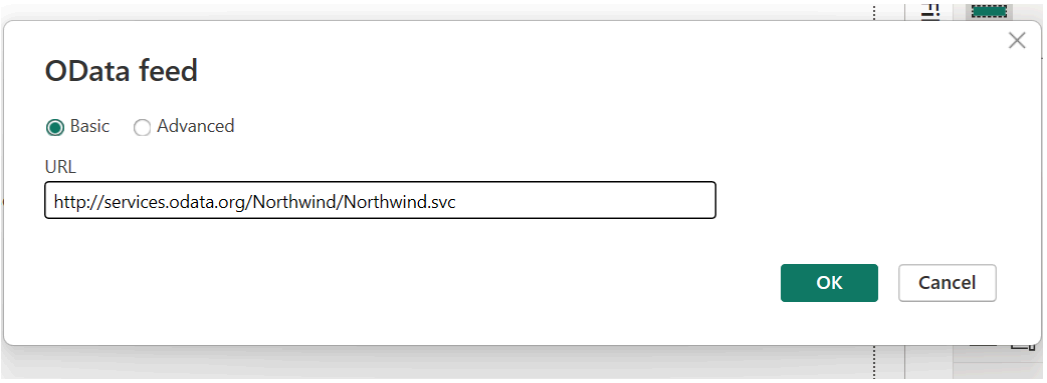
Step3: After clicking on transform Power query editor appears

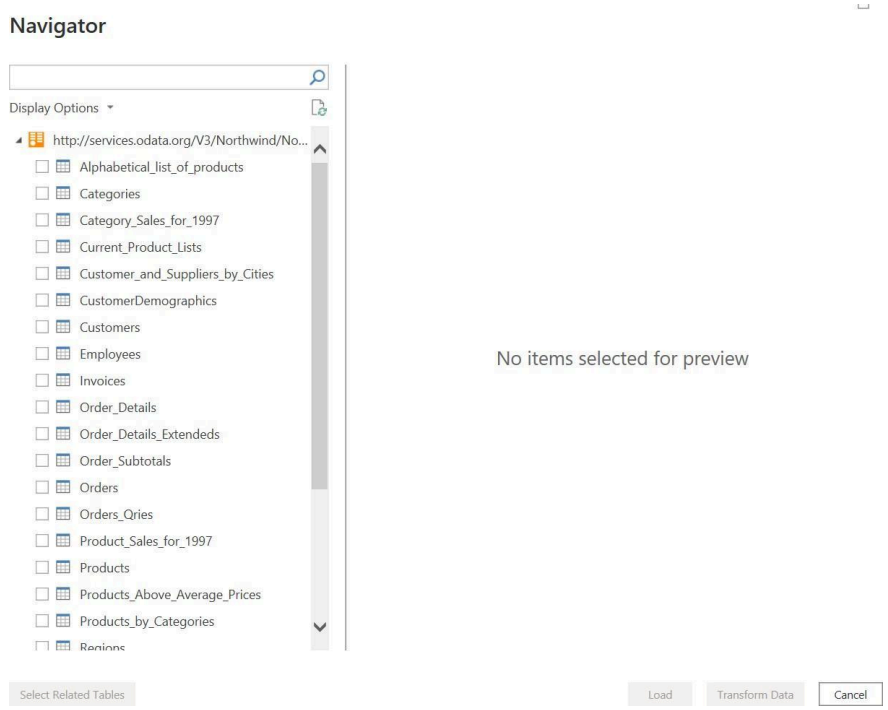


Get data from odata feed.

Step1: Paste link in odata feed.



Step2:Data load



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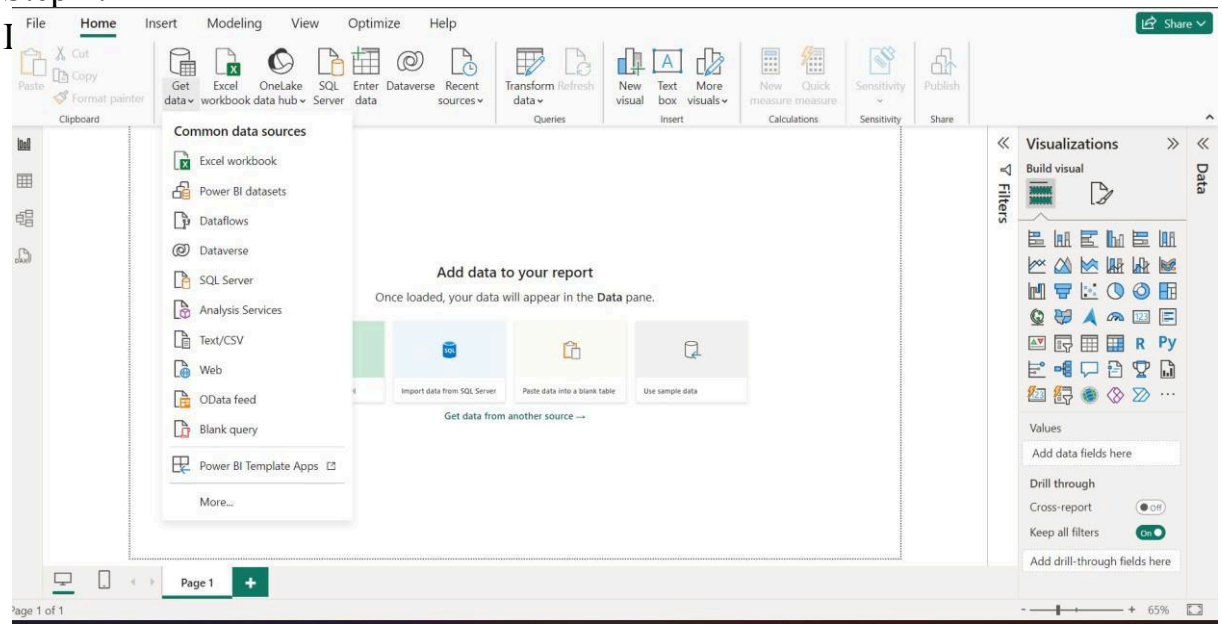
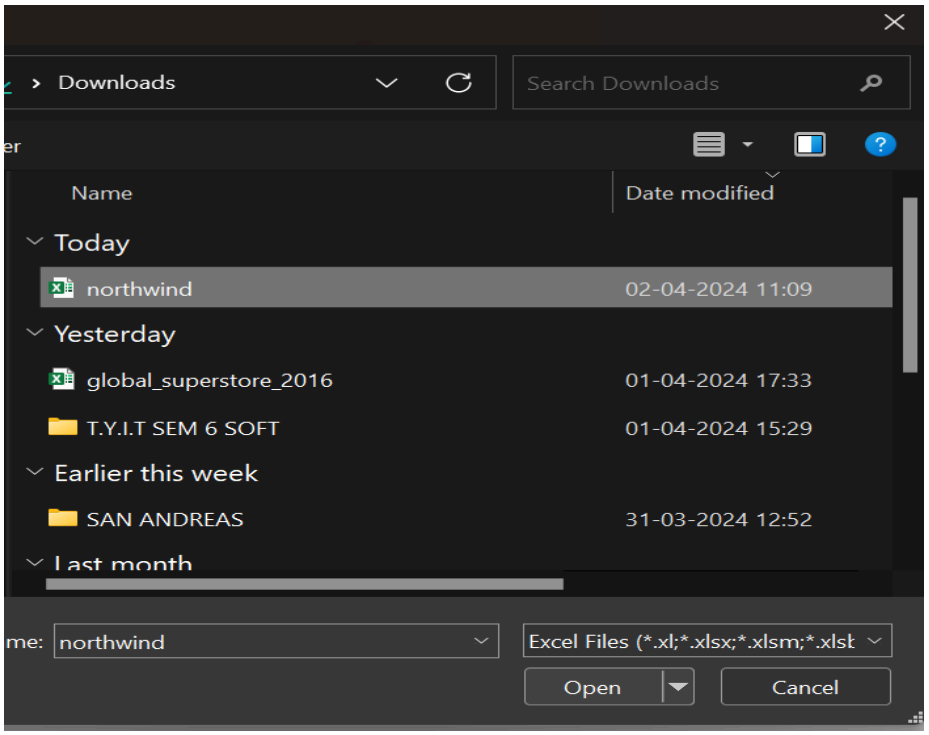
Practical No.2:

Pract 2A:

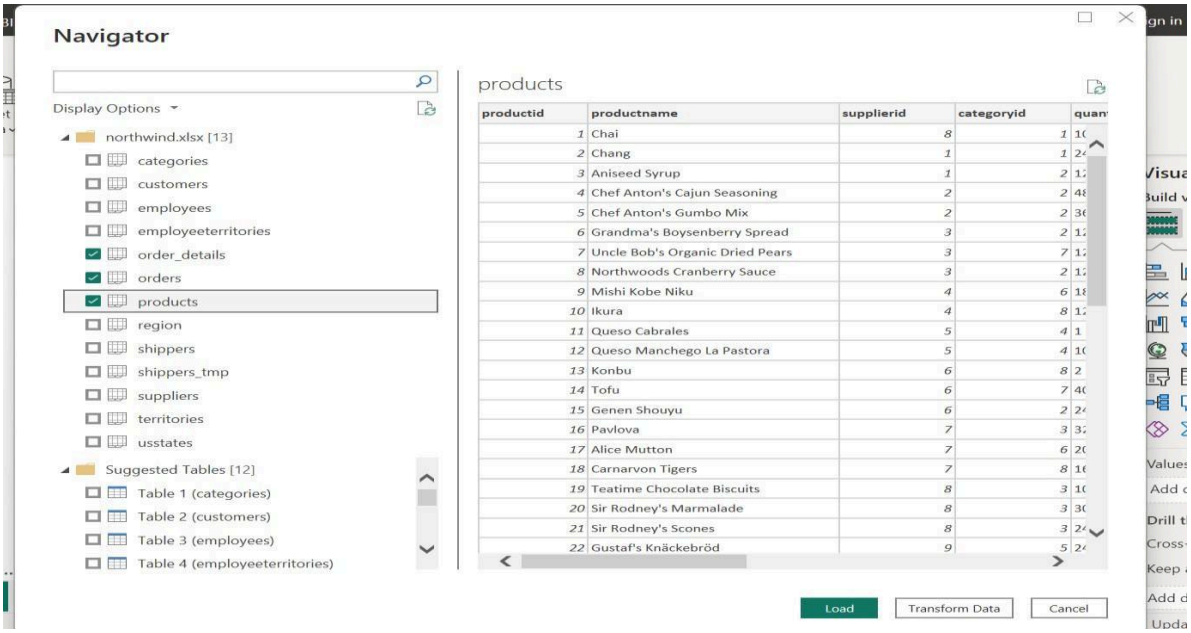
Step 1:

I

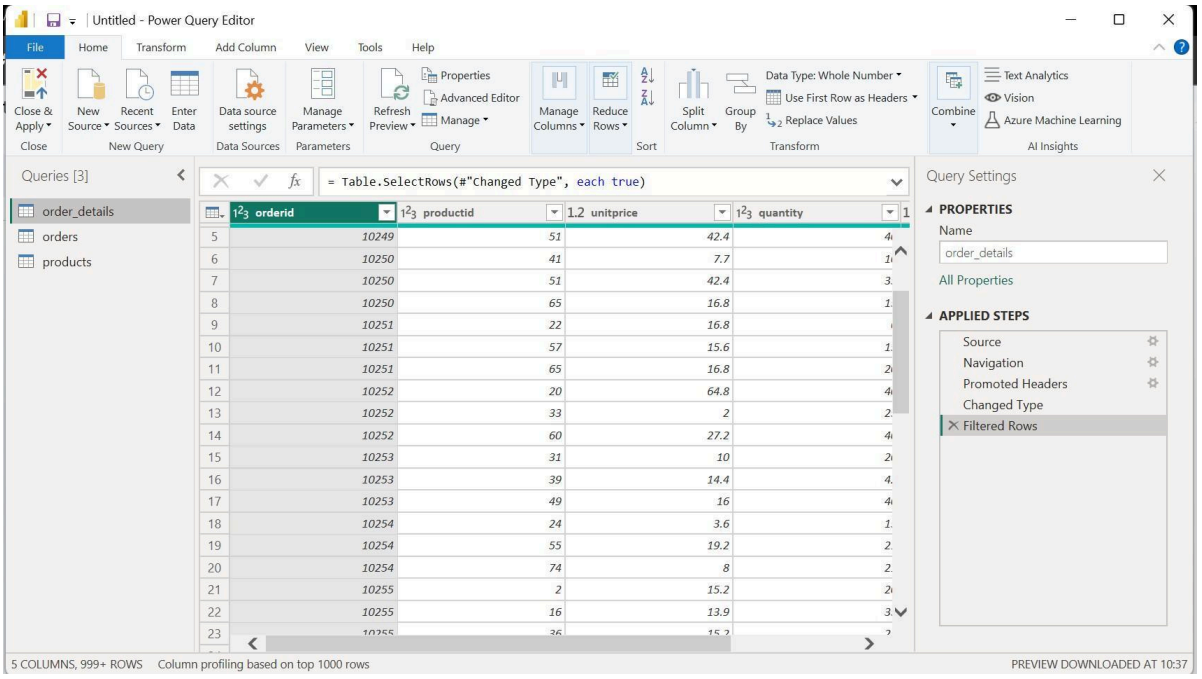




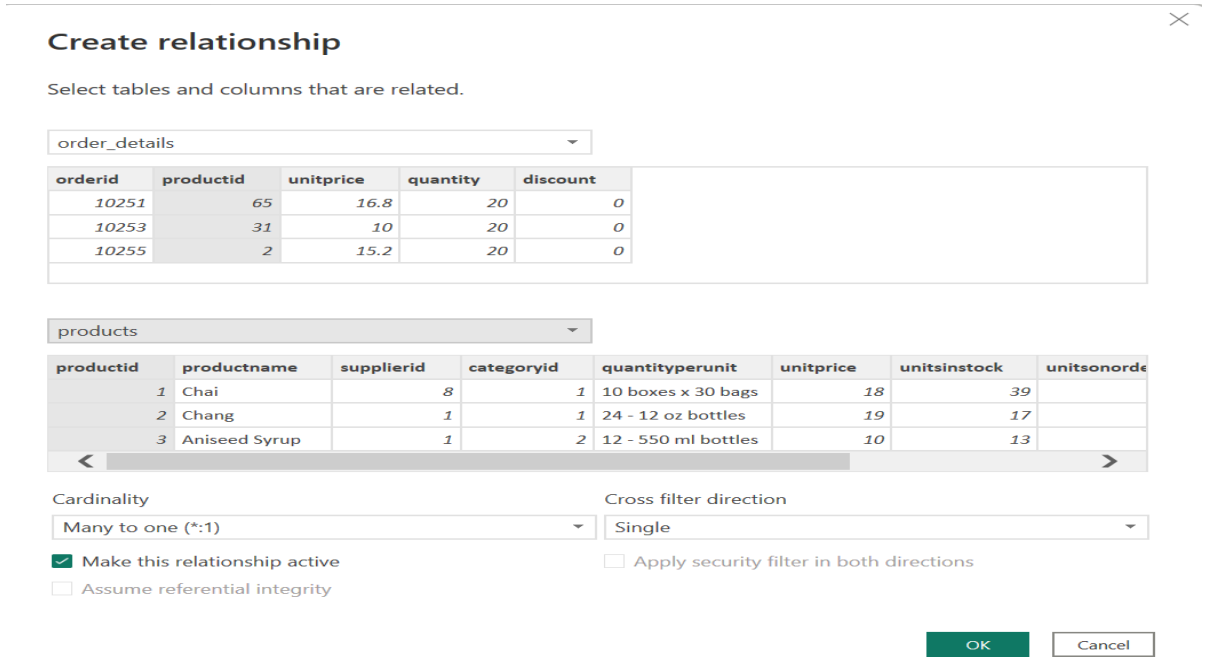
Step 2:
Select the necessary tables required.



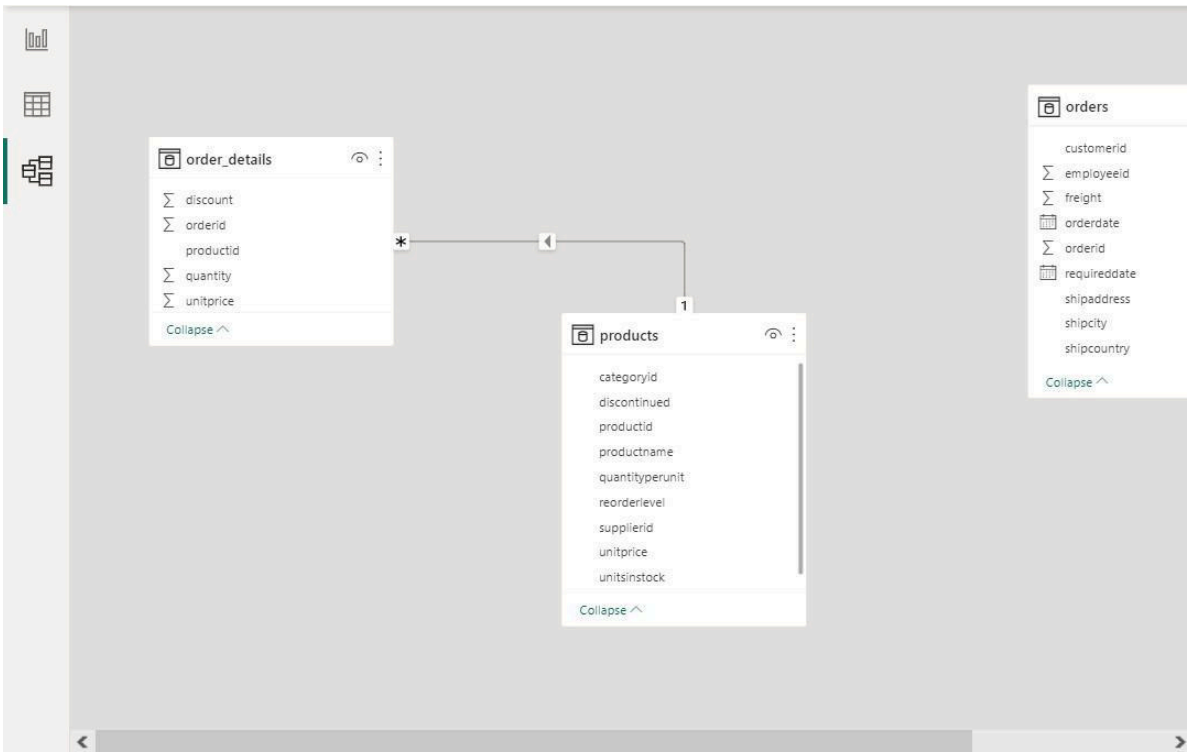
Step 3:
Transform data and Close & Apply changes.



Step 4:
Managing relationship



Step 5:
Table representation



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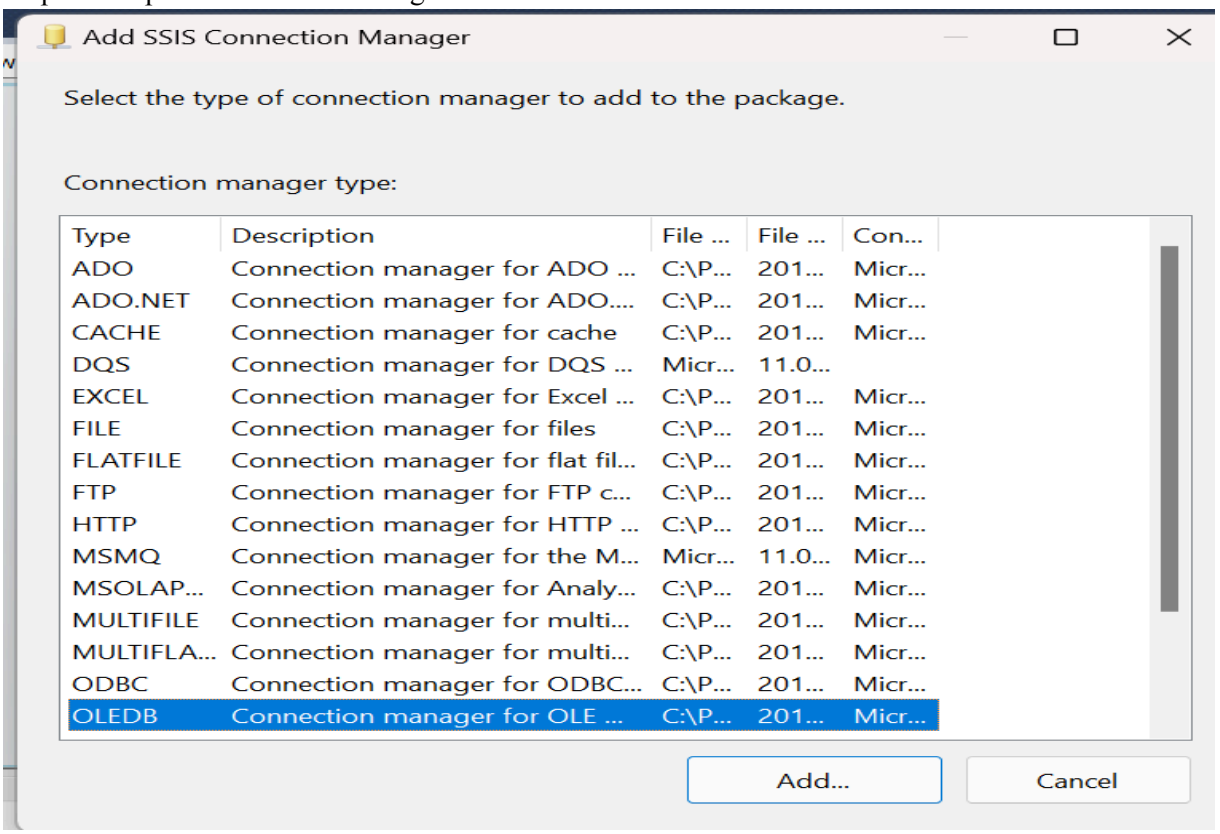
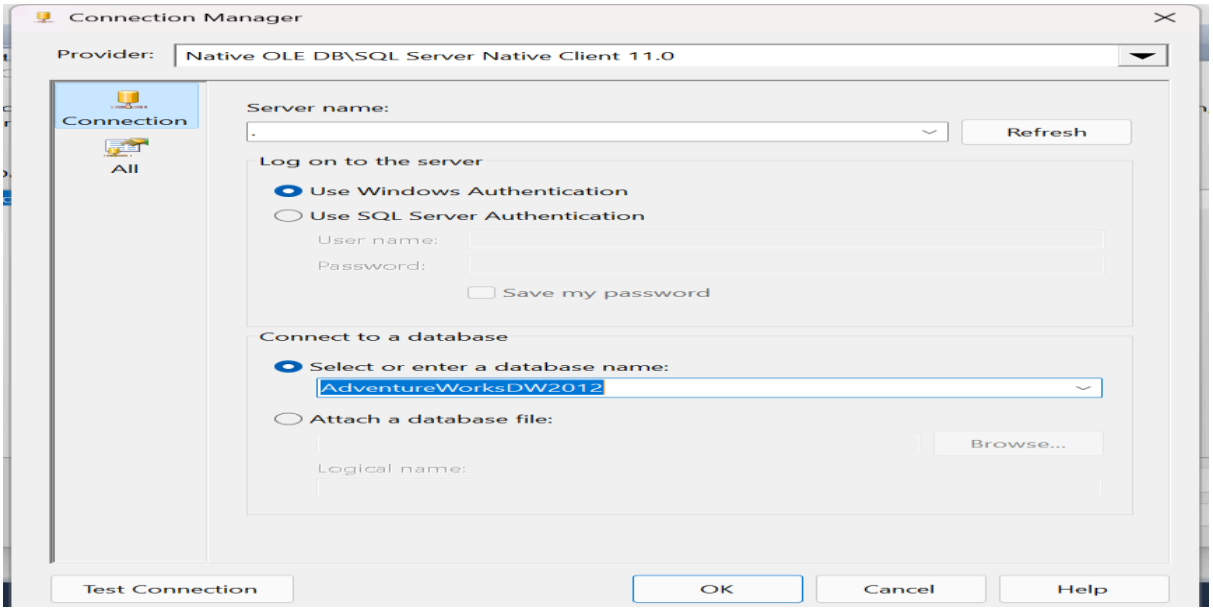
Practical No.2B

Step 1: Setup the connection manager

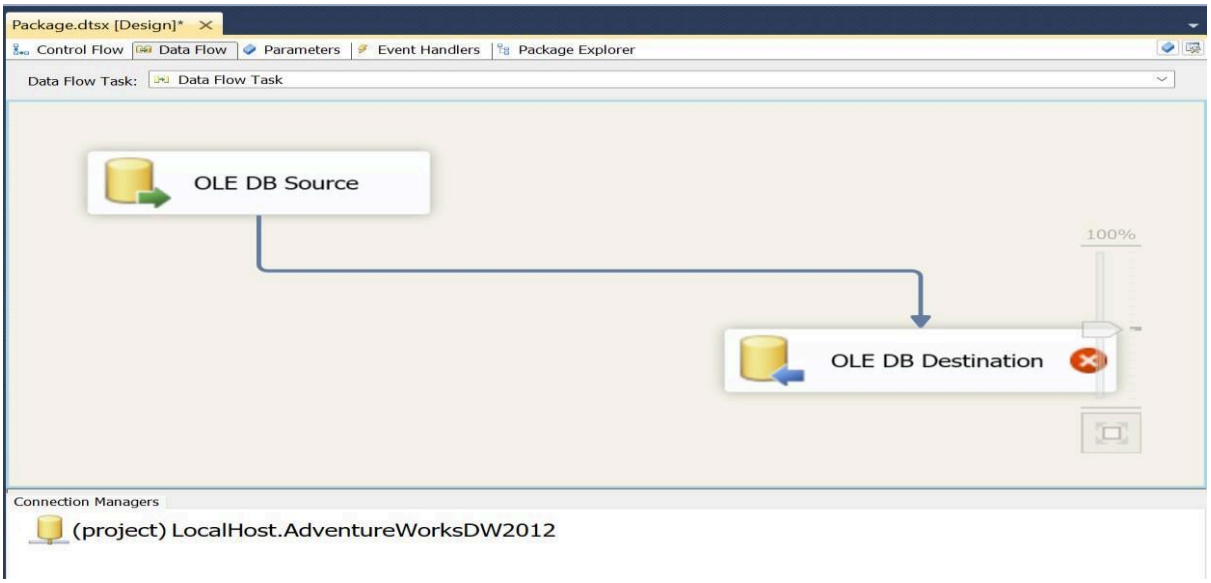


Step 2

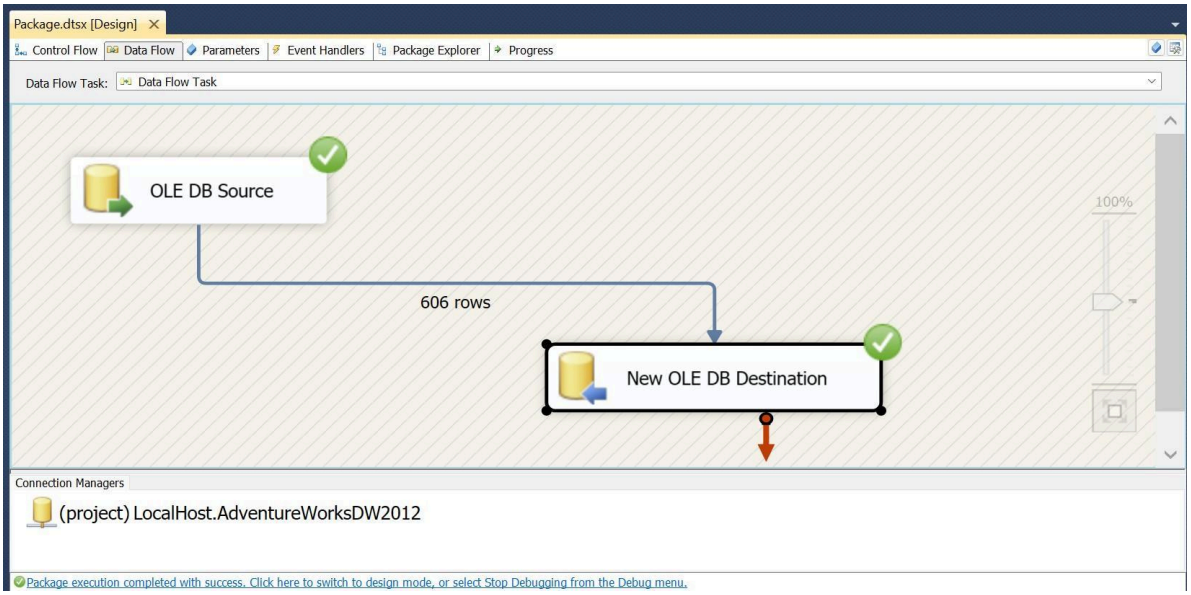
Create connection with the database



Step 3


Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Data Flow Task:
Data Flow Task
OLE DB Source
OLE DB Destination
100%
Connection Managers
(project) LocalHost.AdventureWorksDW2012

Step 4:


Package.dtsx [Design]
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Progress
Data Flow Task:
Data Flow Task
OLE DB Source
606 rows
New OLE DB Destination
100%
Connection Managers
(project) LocalHost.AdventureWorksDW2012
Package execution completed with success. Click here to switch to design mode, or select Stop Debugging from the Debug menu.

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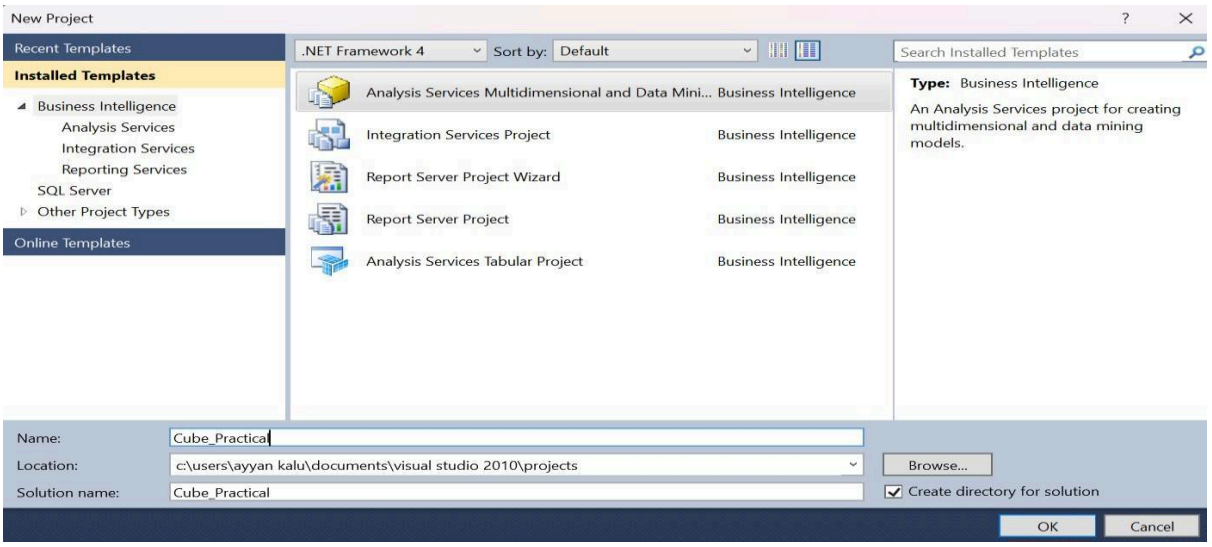
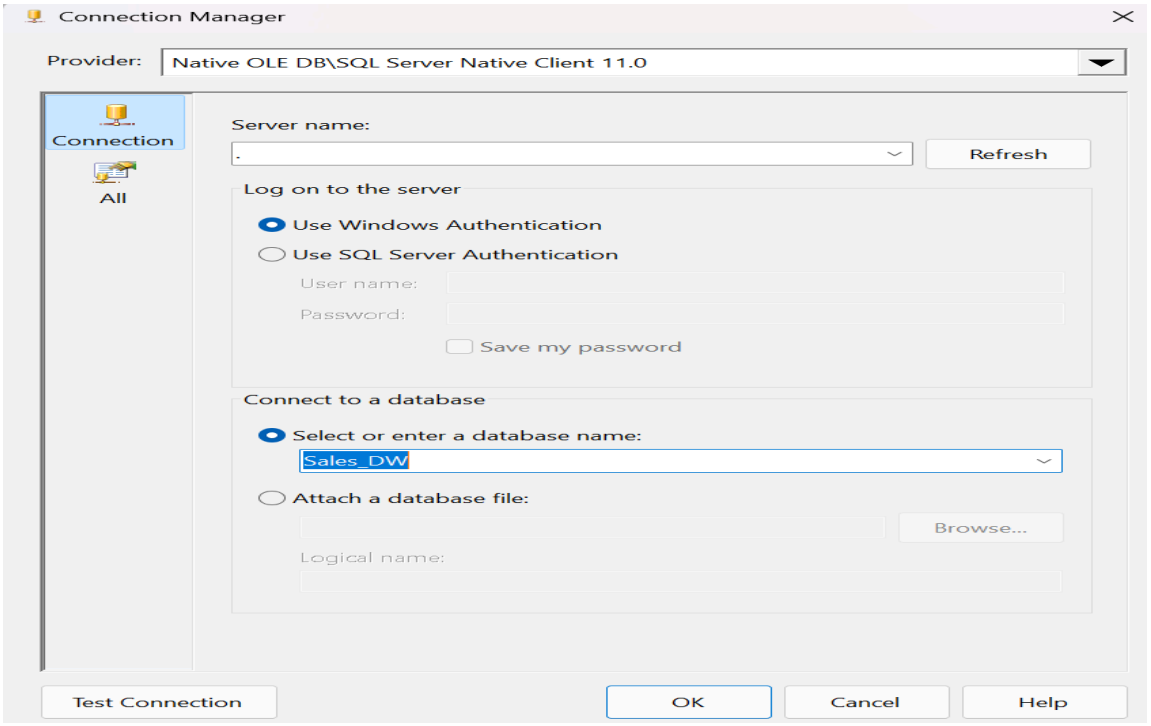
Practical No:3

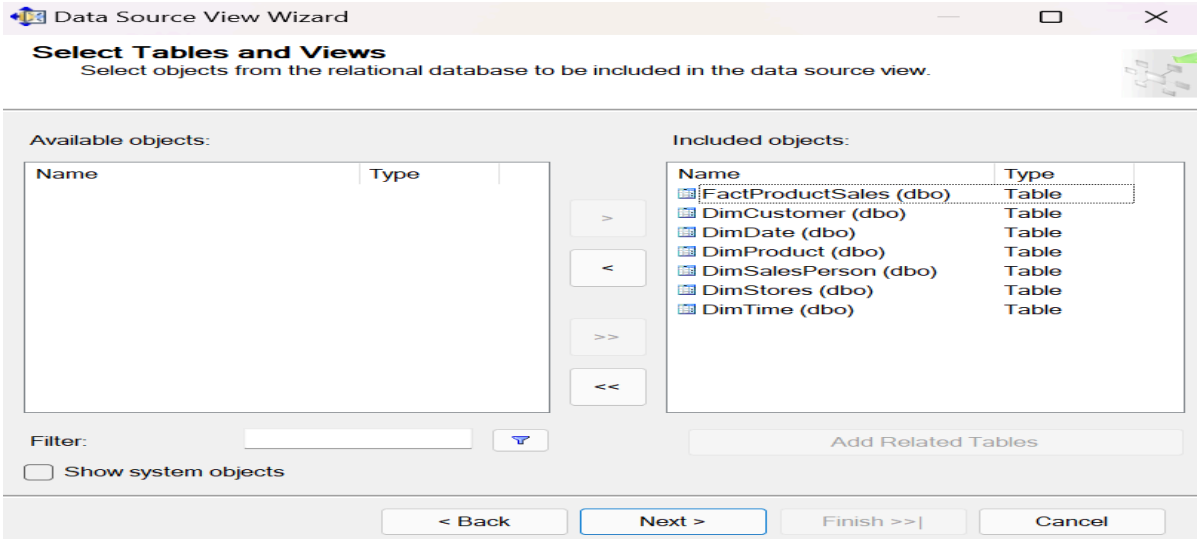
Step 1: Select the Analysis Services for multidimensional and data mining models.



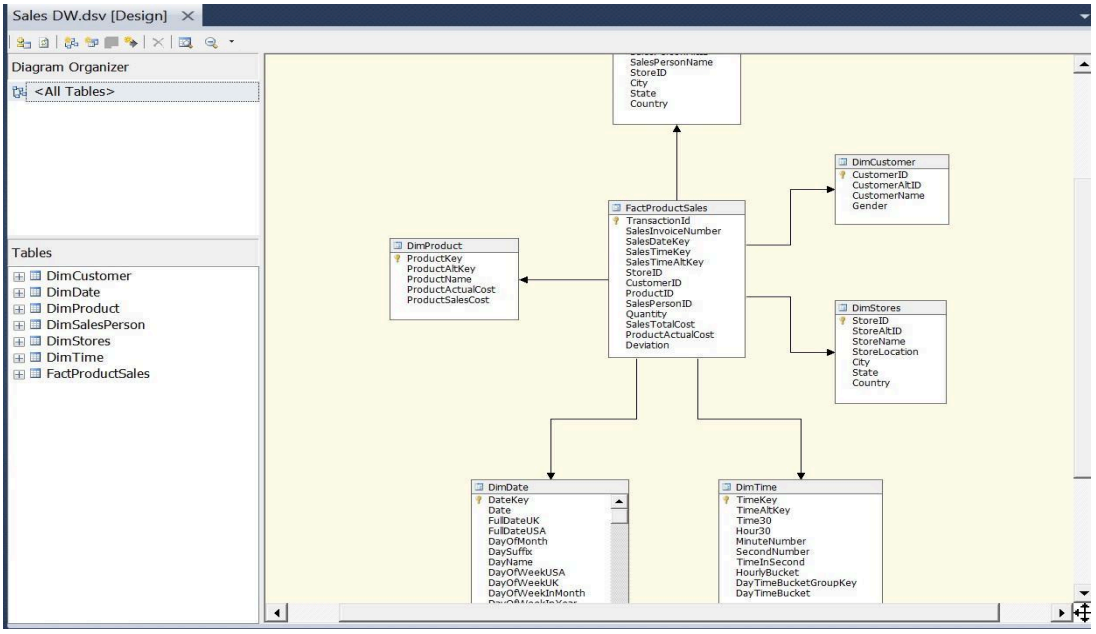
Step 2: Select the database



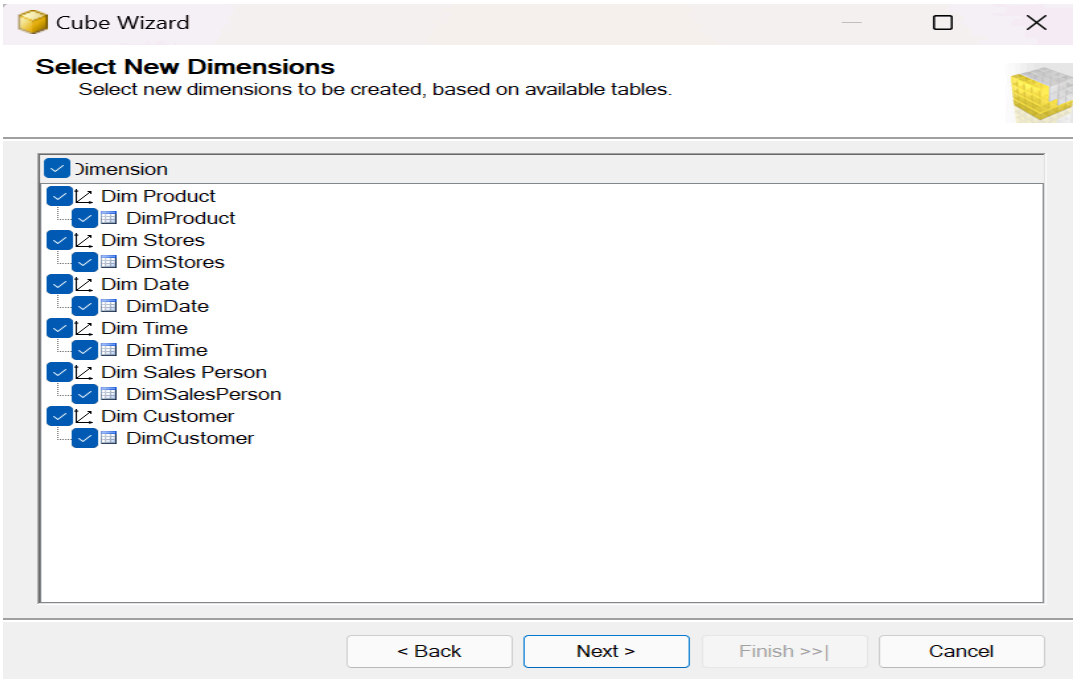
Step 3: Select the Tables and Views.



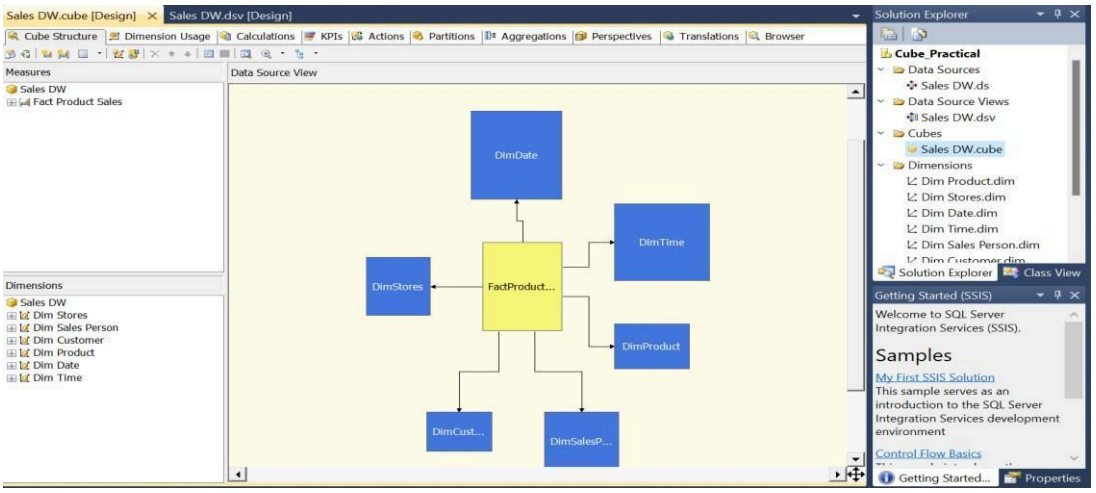
Step 4: Sales DW.dsv appears in Data Source Views in Solution Explorer.



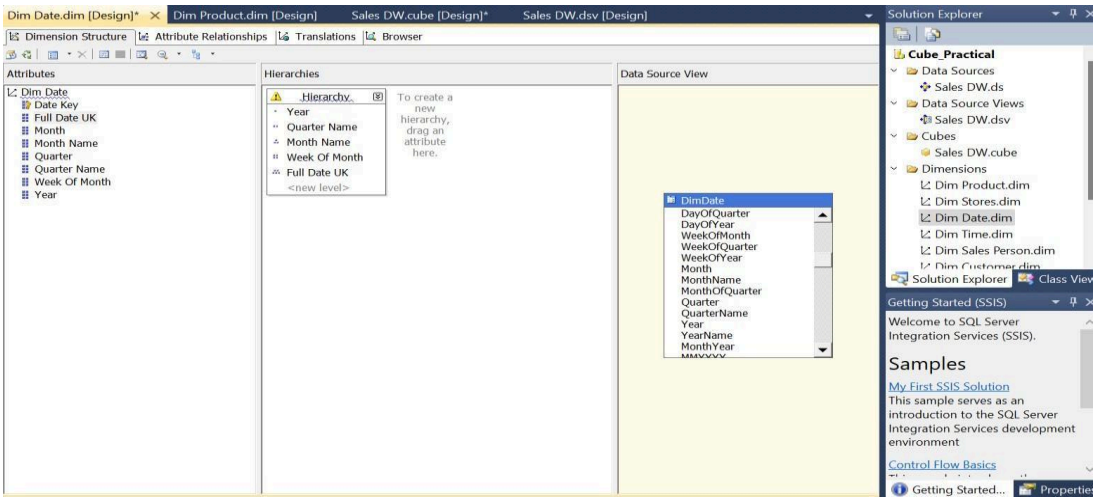
Step 5: Create a new Cube → Right click on Cubes → New Cube → select next steps → Select all dimensions



Step 6: Sales_DW.cube is created.



Step 7: Create Attribute hierarchy in Date Dimension



Step 8 : Deploy the Cube.

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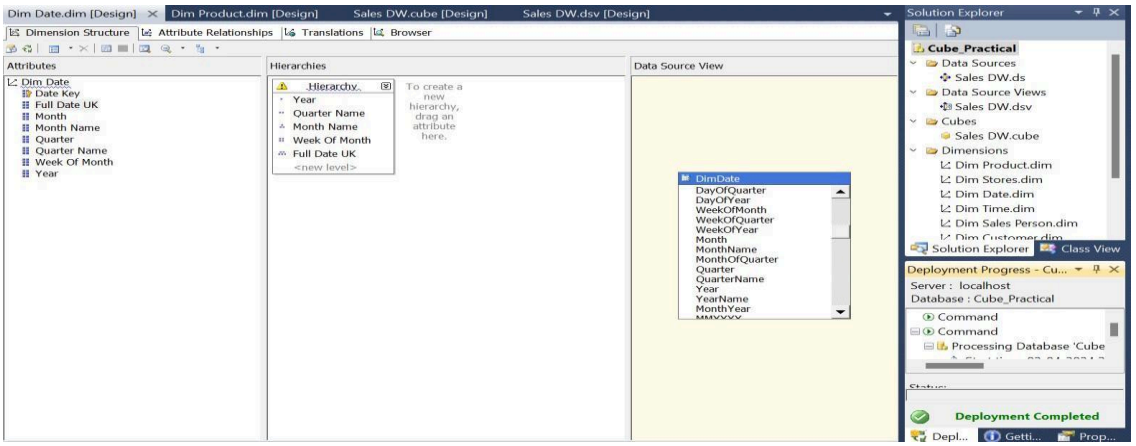
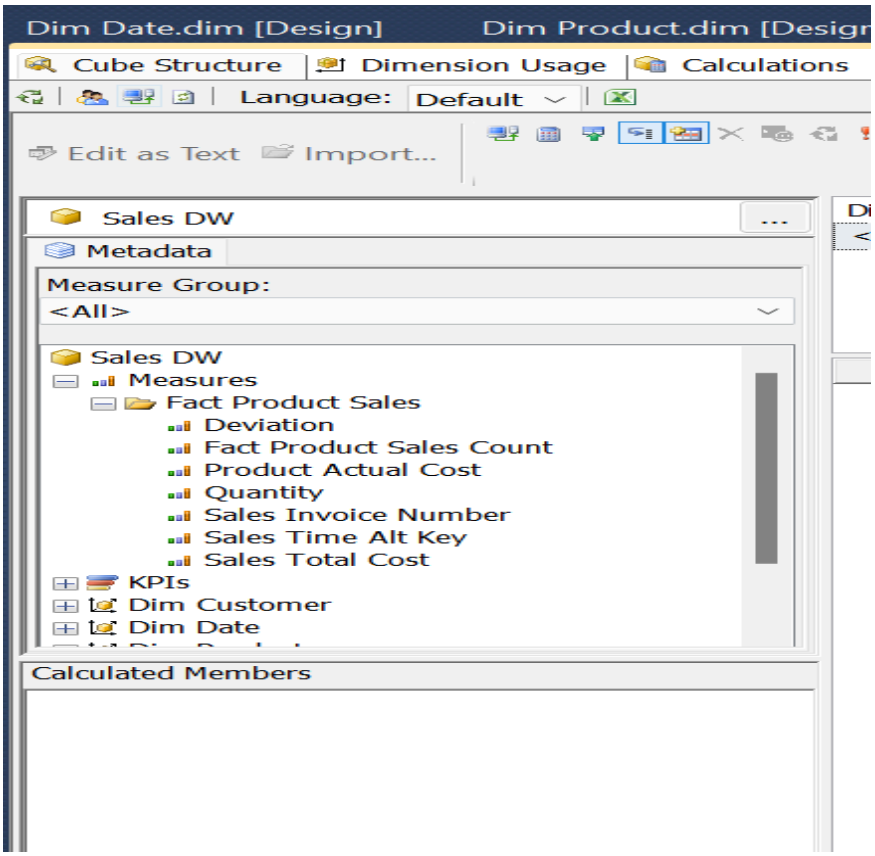


Step 9: Browse the Cube in the Solution Explorer



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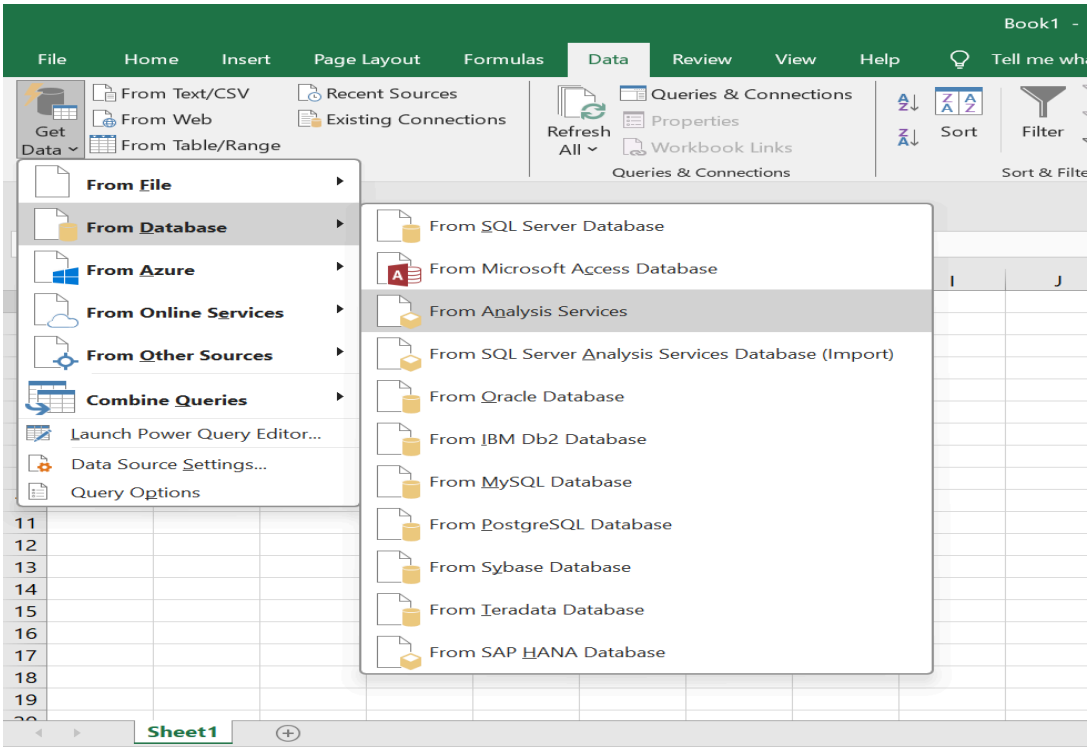
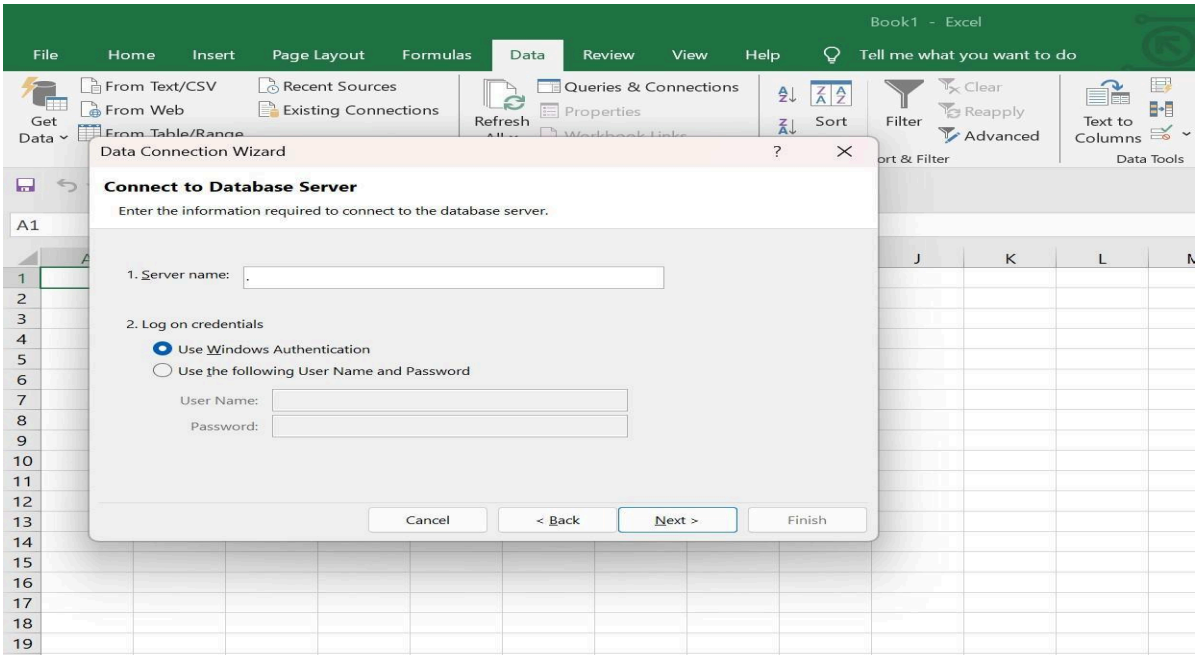
Practical 5B

Step 1: Import the Cube from Data Analysis Services.



Step 2: Connect to the database server



Step 3: Select the Cube created before

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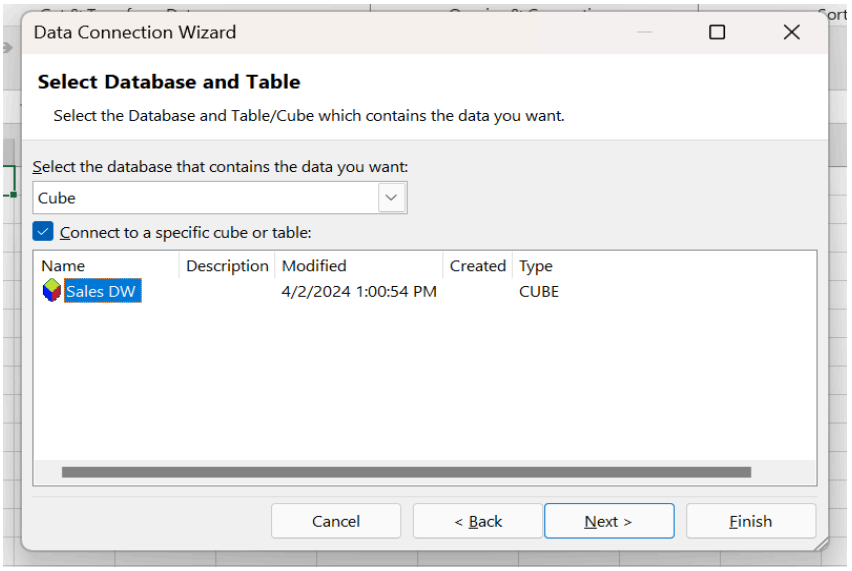
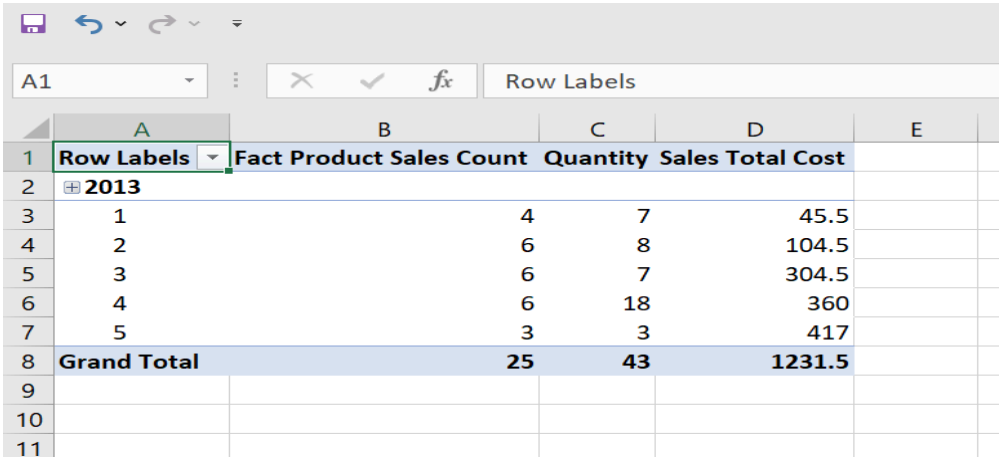


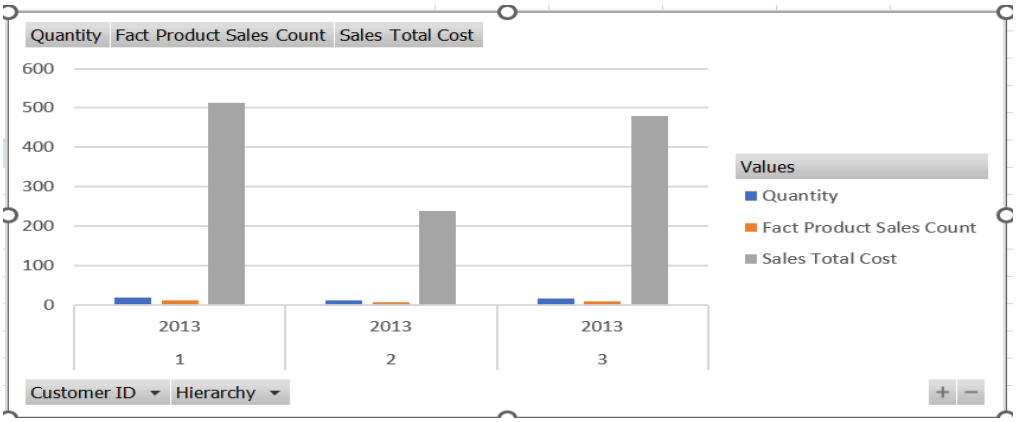
Step 4: Pivot Table report



A1 | Row Labels

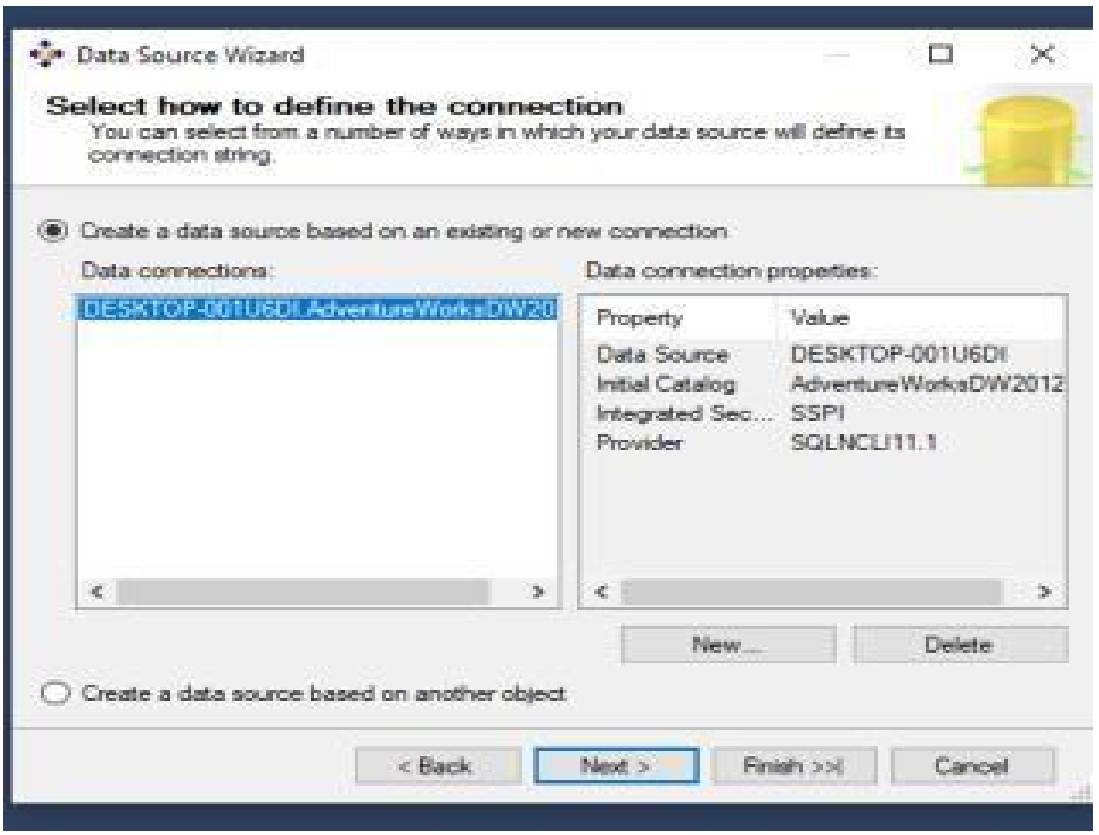
	A	B	C	D	E
1	**Row Labels**	**Fact Product Sales Count**	**Quantity**	**Sales Total Cost**	
2	**2013**				
3	1	4	7	45.5	
4	2	6	8	104.5	
5	3	6	7	304.5	
6	4	6	18	360	
7	5	3	3	417	
8	**Grand Total**	**25**	**43**	**1231.5**	
9					
10					
11					

Step 5: Pivot Chart Report

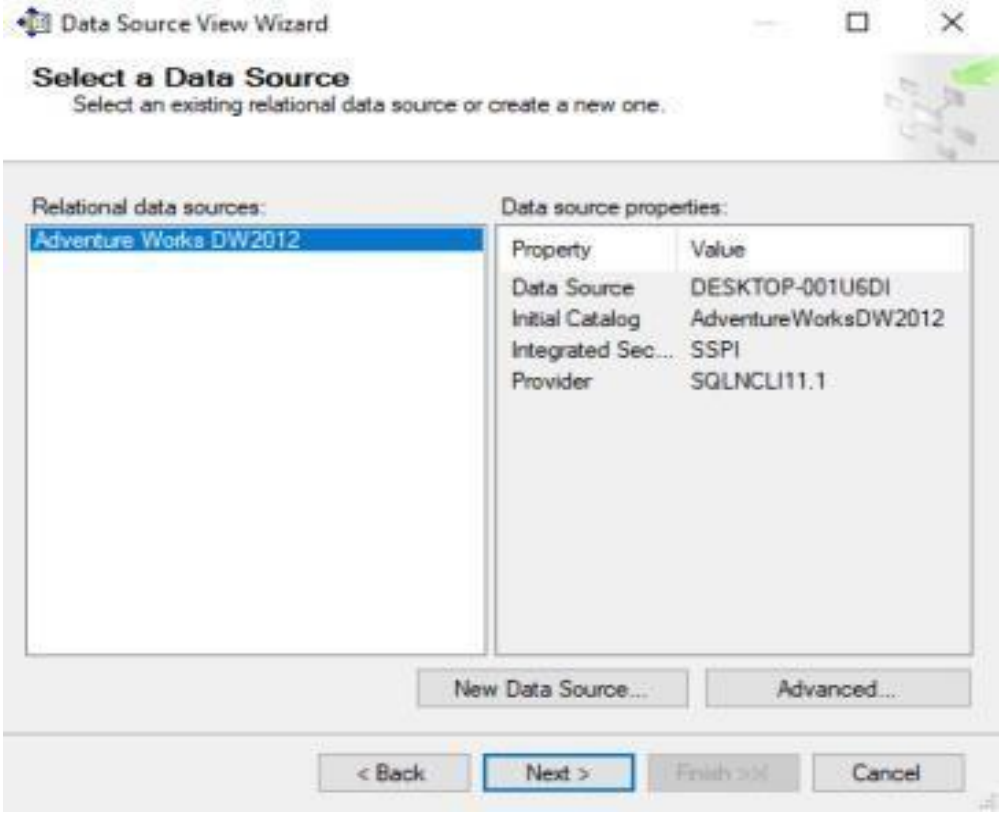


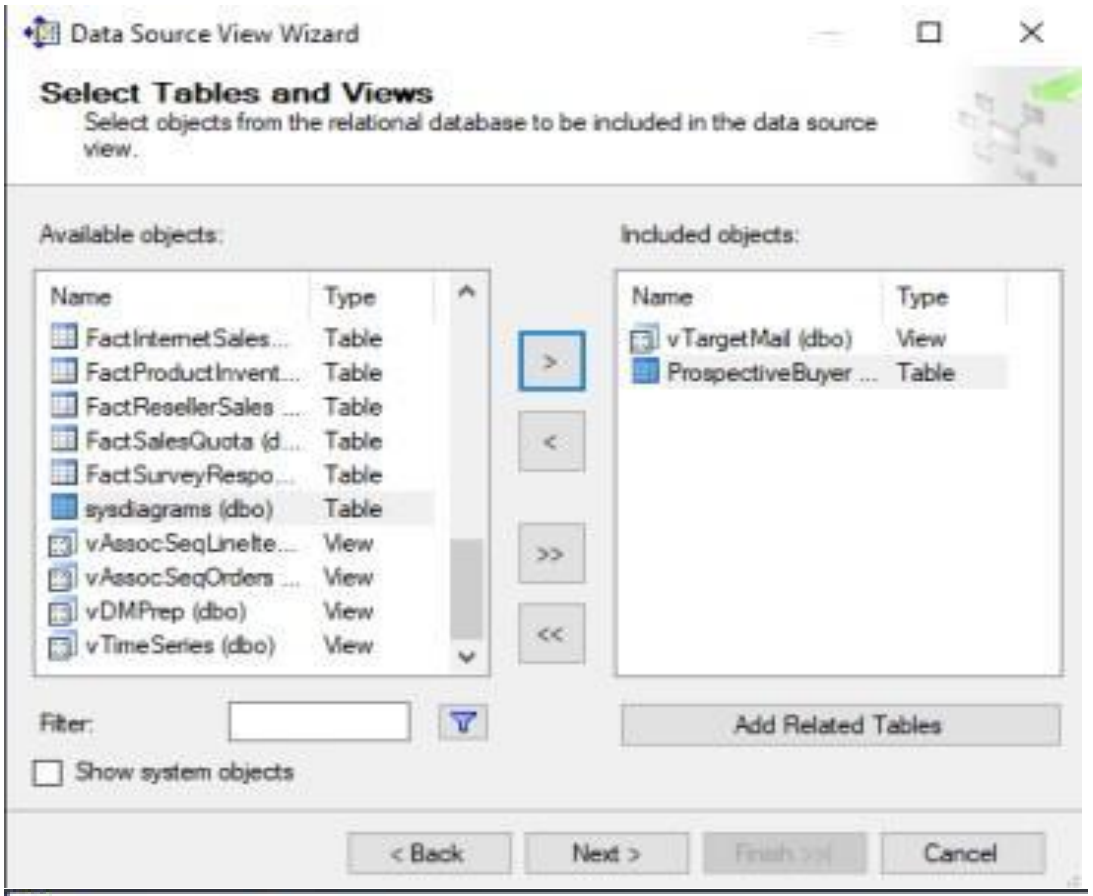
Practical No: 7 Data Classification using Classification Algorithm.

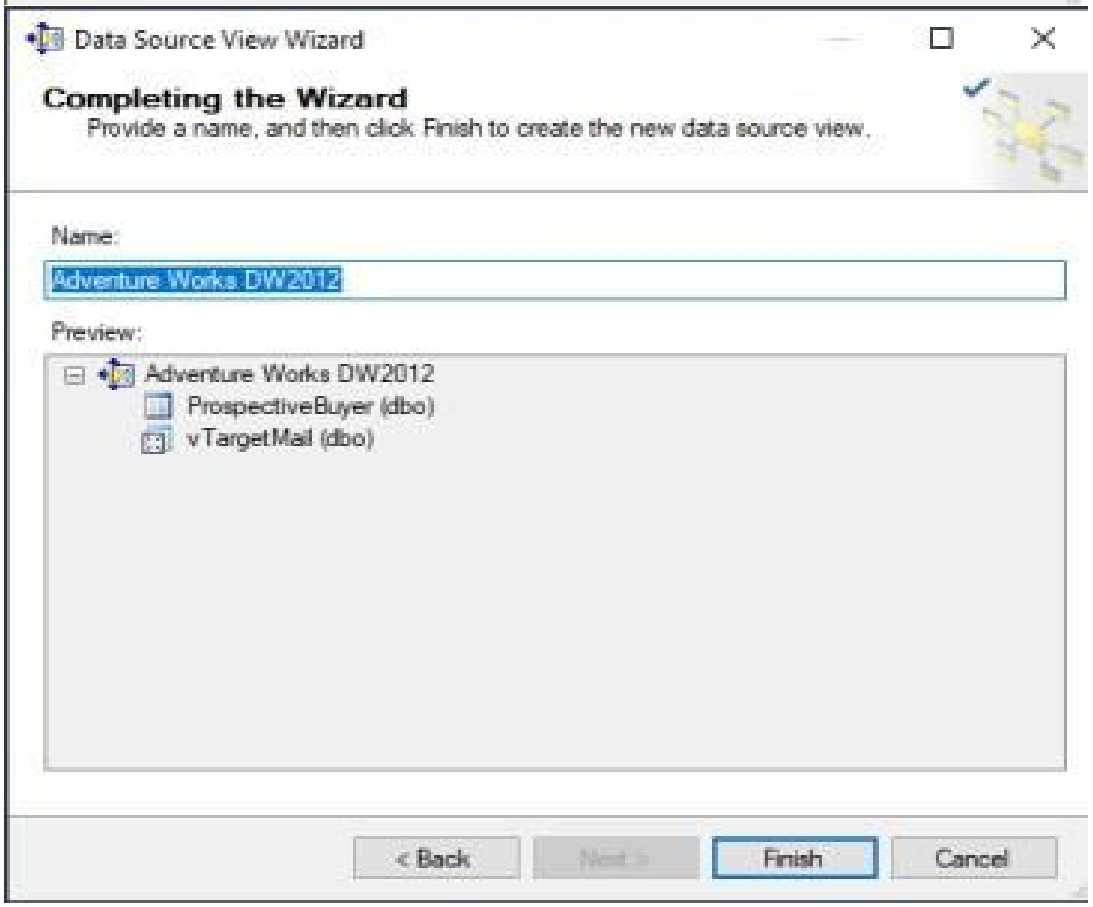
1) Data Source



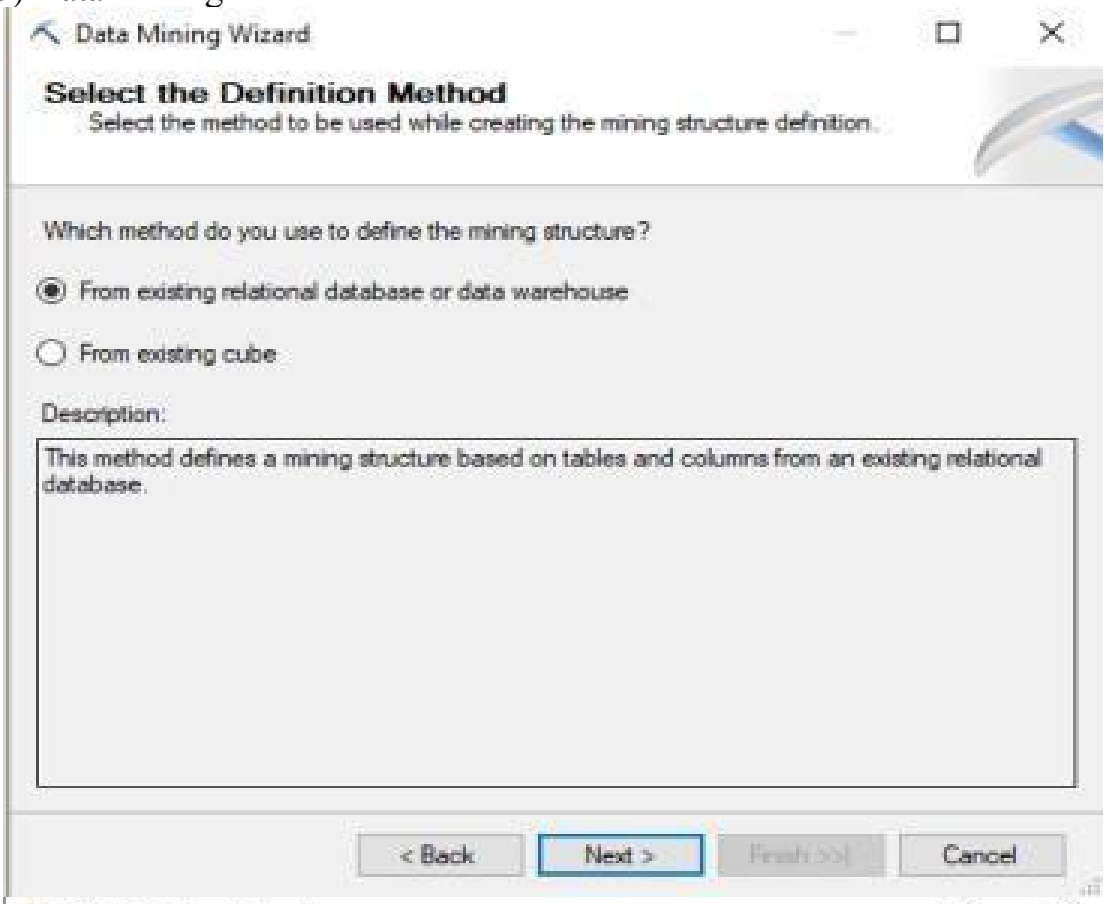
2) Data Source View

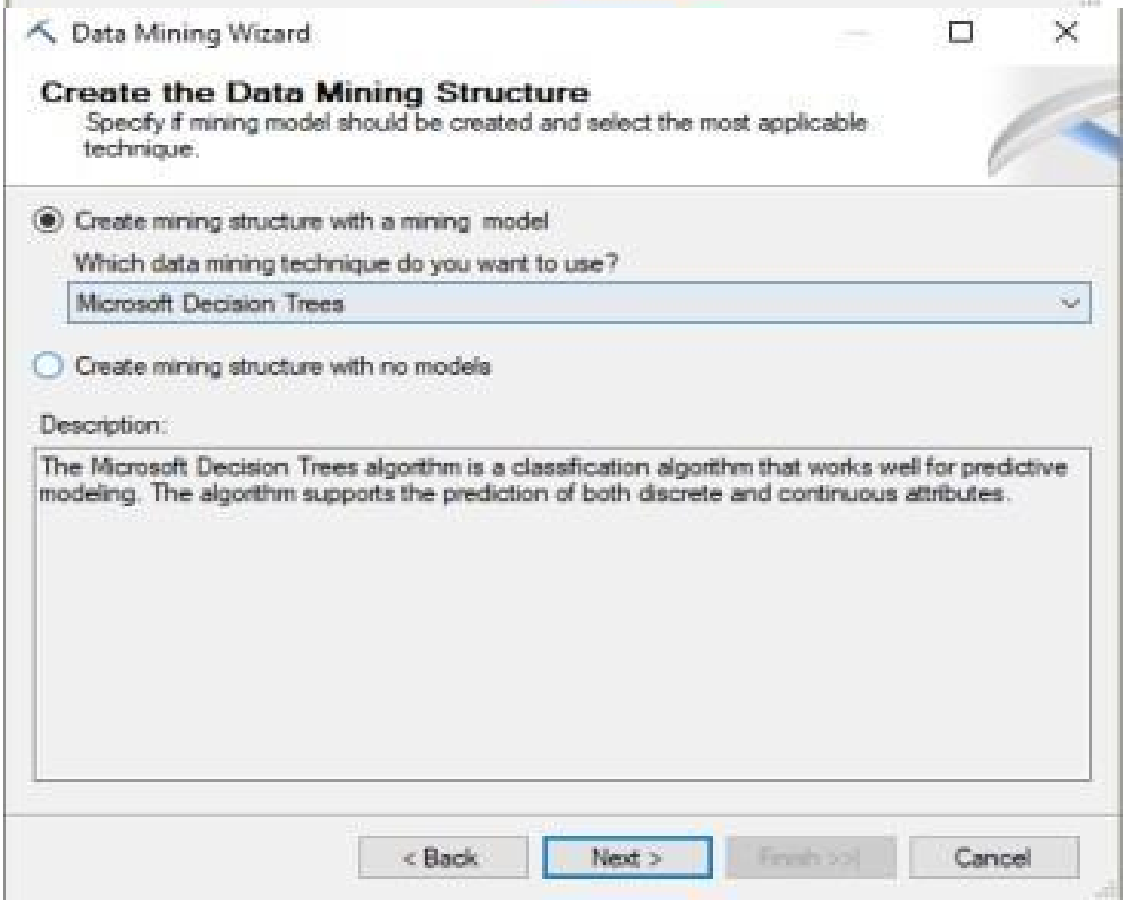


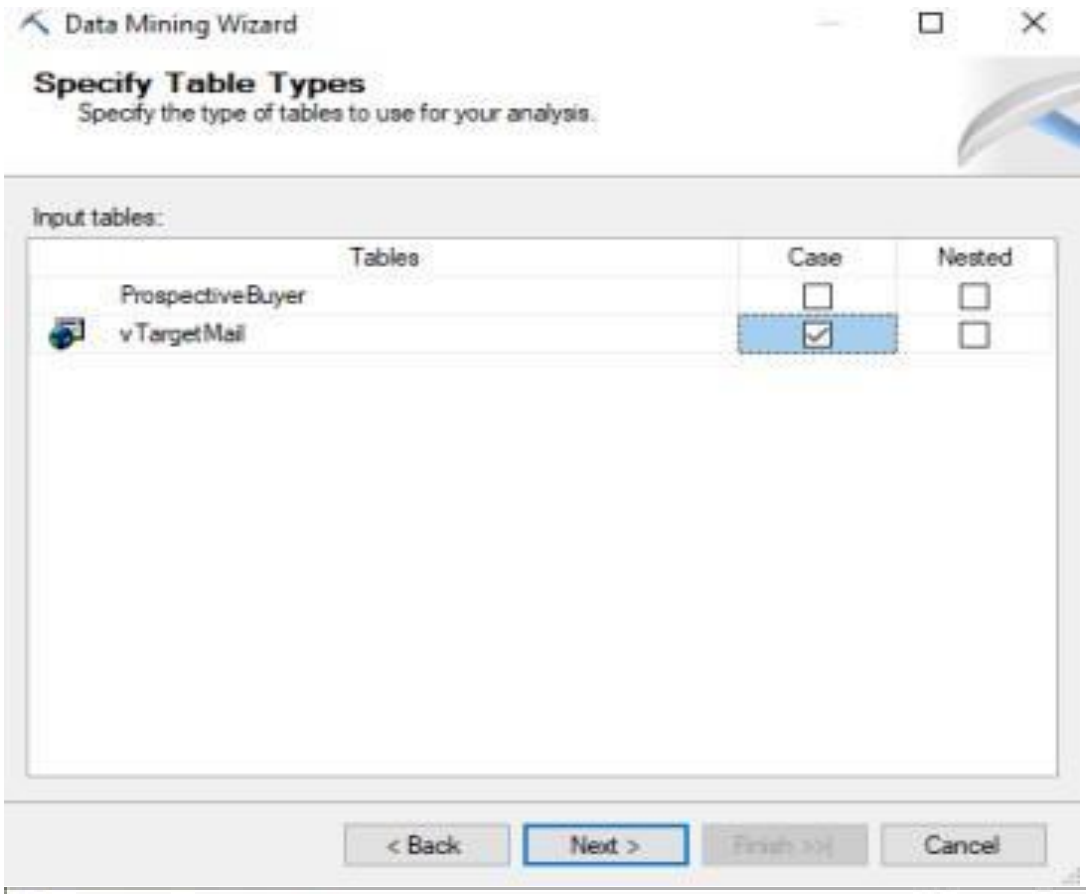

Data Source View Wizard
Select Tables and Views
Select objects from the relational database to be included in the data source view.
Available objects:
Name
Type
FactInternetSales...
Table
FactProductInvent...
Table
FactResellerSales ...
Table
FactSalesQuota (d...
Table
FactSurveyRespo...
Table
sysdiagrams (dbo)
Table
vAssocSeqLineIte...
View
vAssocSeqOrders ...
View
vDMPrep (dbo)
View
vTimeSeries (dbo)
View
>
<
>>
<<
Included objects:
Name
Type
vTargetMail (dbo)
View
ProspectiveBuyer ...
Table
Filter:
Add Related Tables
Show system objects
< Back
Next >
Cancel

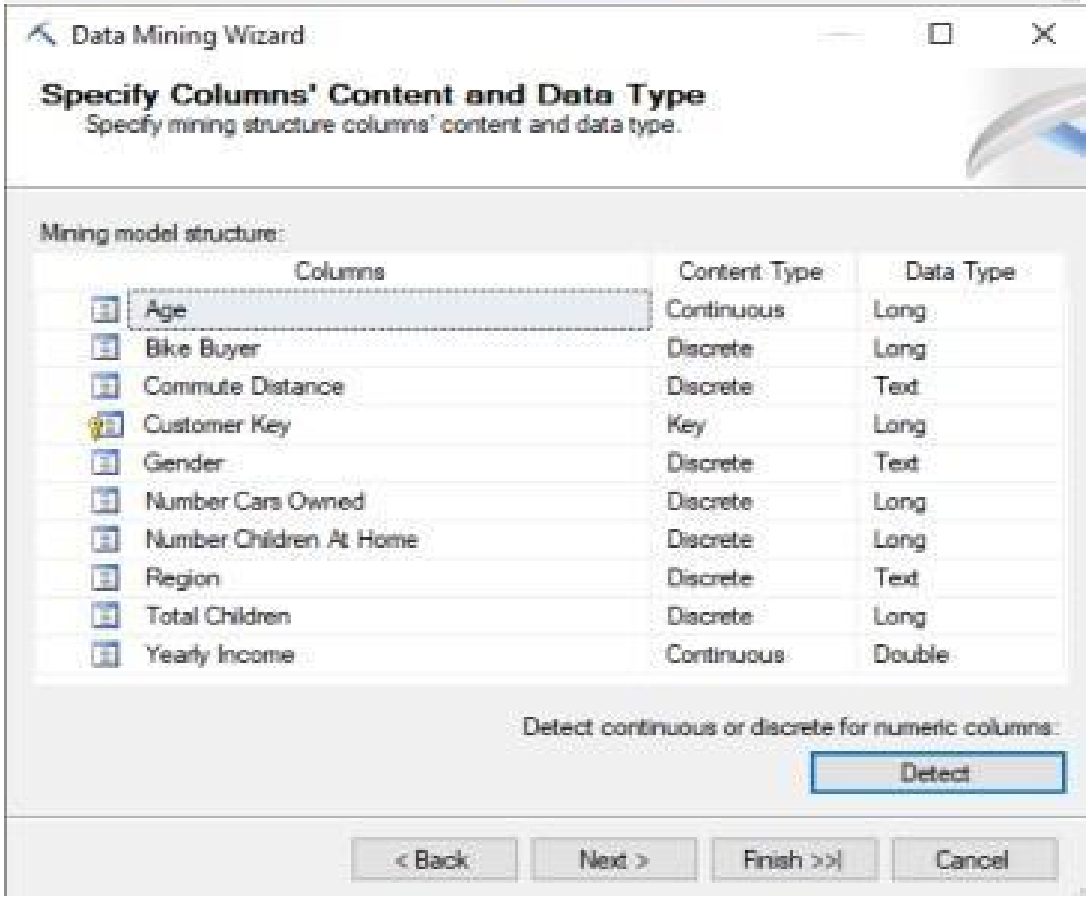

Data Source View Wizard
Completing the Wizard
Provide a name, and then click Finish to create the new data source view.
Name:
Adventure Works DW2012
Preview:
Adventure Works DW2012
ProspectiveBuyer (dbo)
vTargetMail (dbo)
< Back
Finish
Cancel

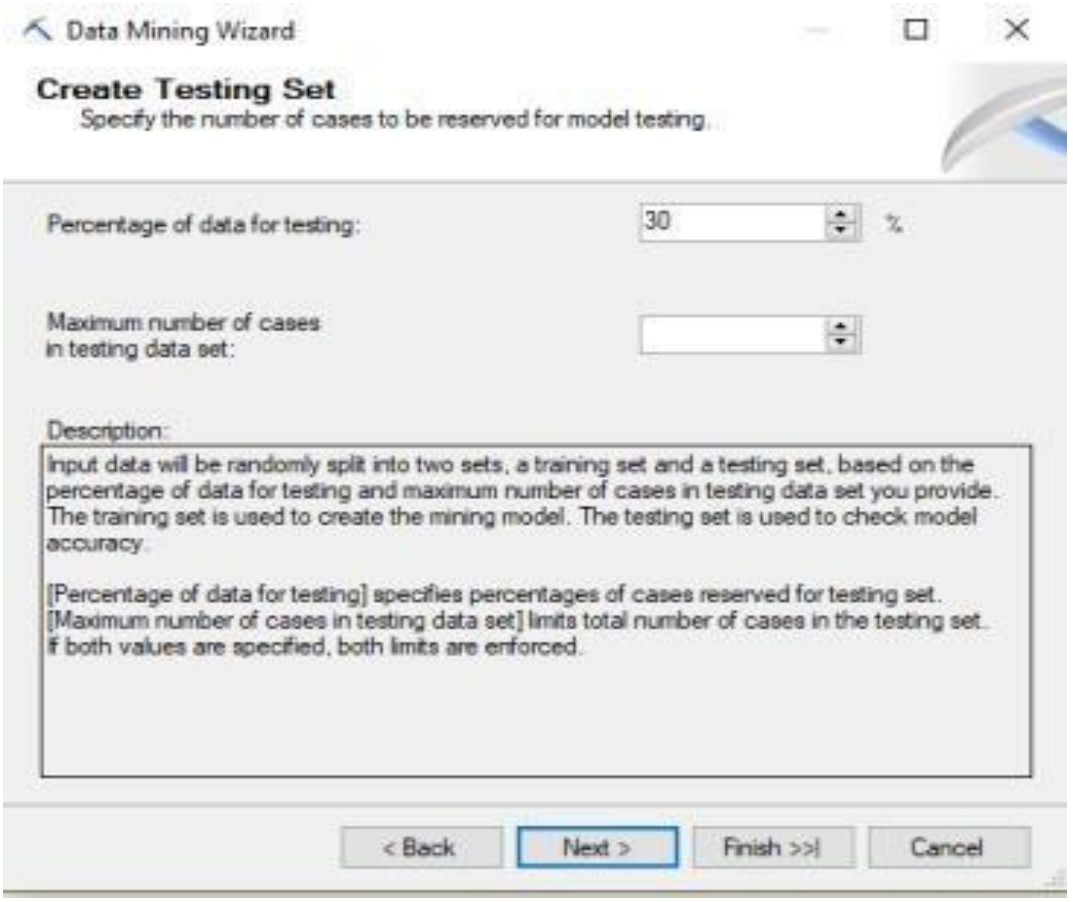
3) Data Mining

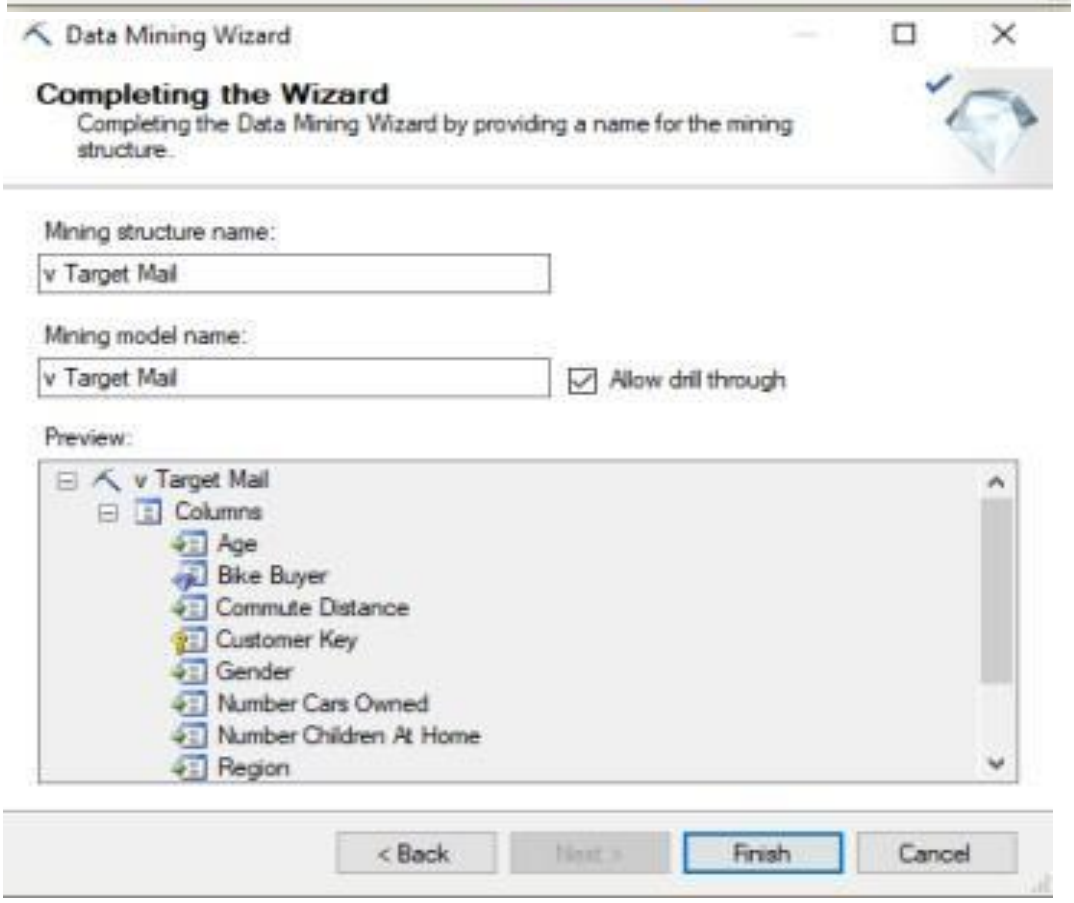





Data Mining Wizard
Specify Table Types
Specify the type of tables to use for your analysis.
Input tables:
Tables
Case
Nested
ProspectiveBuyer
vTargetMail
< Back
Next >
Cancel

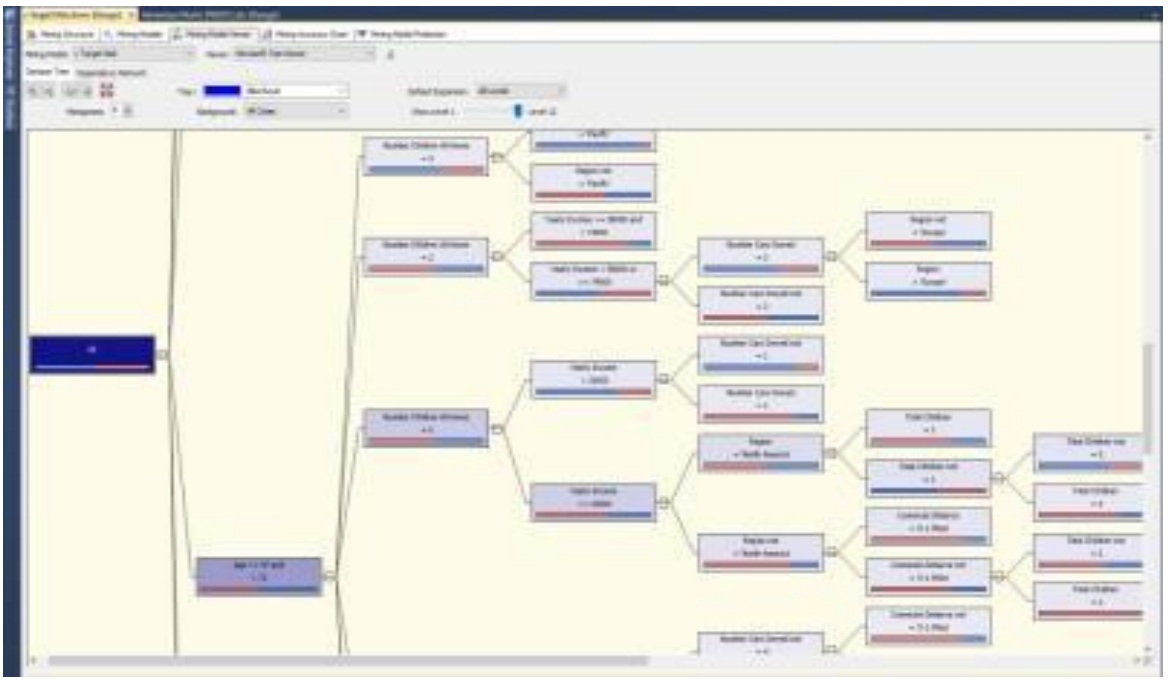

Data Mining Wizard
Specify Columns' Content and Data Type
Specify mining structure columns' content and data type.
Mining model structure:
Columns
Content Type
Data Type
Age
Continuous
Long
Bike Buyer
Discrete
Long
Commute Distance
Discrete
Text
Customer Key
Key
Long
Gender
Discrete
Text
Number Cars Owned
Discrete
Long
Number Children At Home
Discrete
Long
Region
Discrete
Text
Total Children
Discrete
Long
Yearly Income
Continuous
Double
Detect continuous or discrete for numeric columns:
Detect
< Back
Next >
Finish >>|
Cancel


Data Mining Wizard
Create Testing Set
Specify the number of cases to be reserved for model testing.
Percentage of data for testing:
30
%
Maximum number of cases in testing data set:
Description:
Input data will be randomly split into two sets, a training set and a testing set, based on the percentage of data for testing and maximum number of cases in testing data set you provide. The training set is used to create the mining model. The testing set is used to check model accuracy.
[Percentage of data for testing] specifies percentages of cases reserved for testing set. [Maximum number of cases in testing data set] limits total number of cases in the testing set. If both values are specified, both limits are enforced.
< Back
Next >
Finish >>|
Cancel

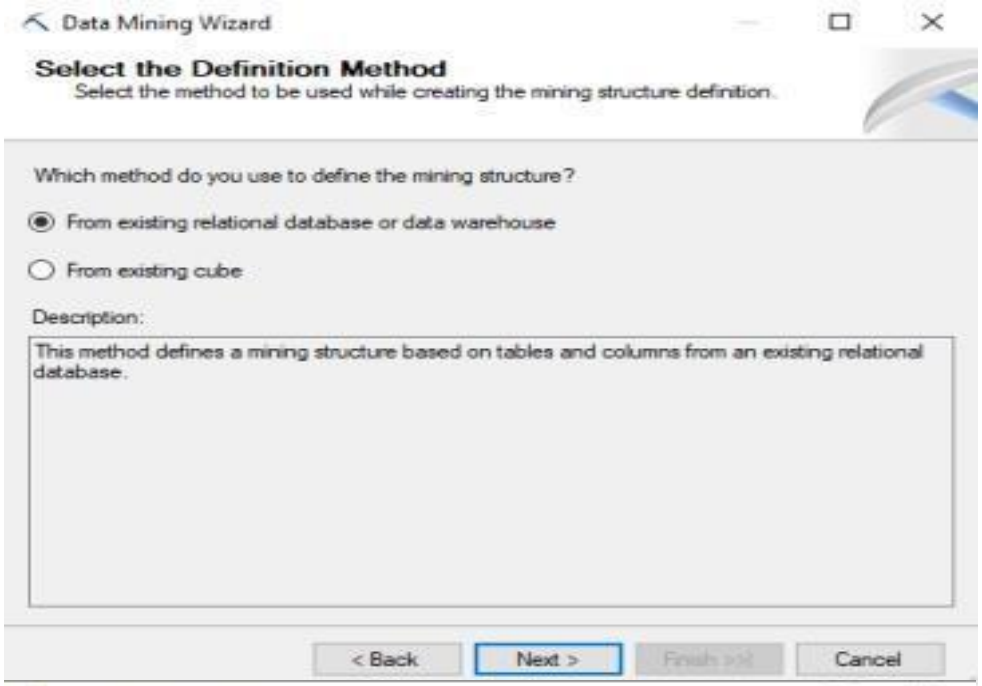

Data Mining Wizard
Completing the Wizard
Completing the Data Mining Wizard by providing a name for the mining structure.
Mining structure name:
v Target Mail
Mining model name:
v Target Mail
Allow drill through
Preview:
v Target Mail
Columns
Age
Bike Buyer
Commute Distance
Customer Key
Gender
Number Cars Owned
Number Children At Home
Region
< Back
Next >
Finish
Cancel

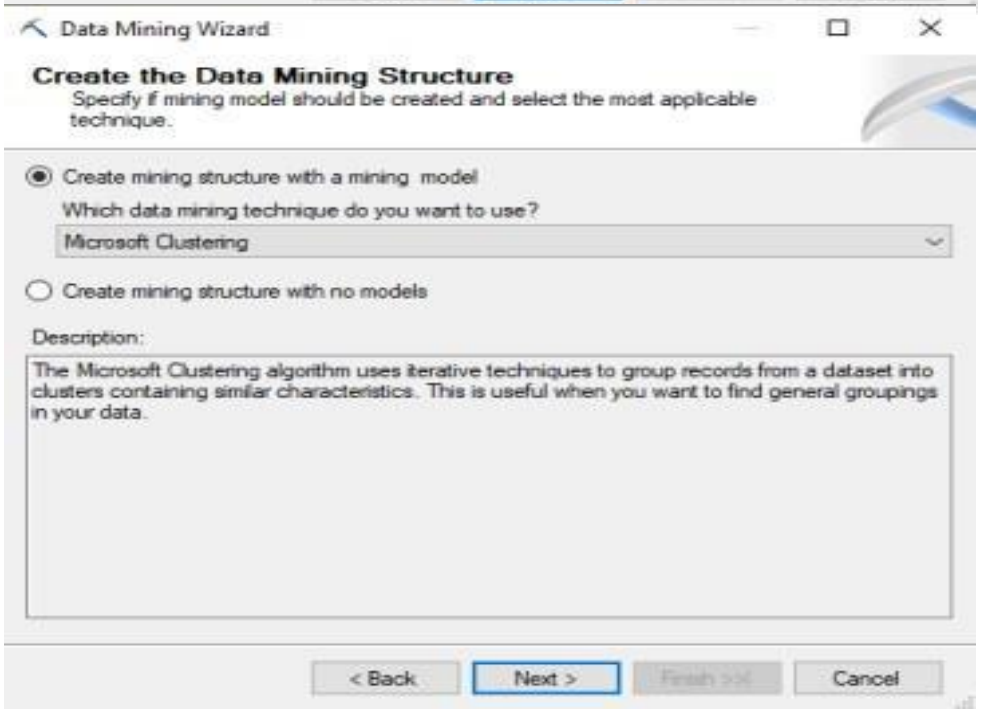
4) Dependency Network

5) Decision Tree



Practical No: 8 Data Clustering using Clustering





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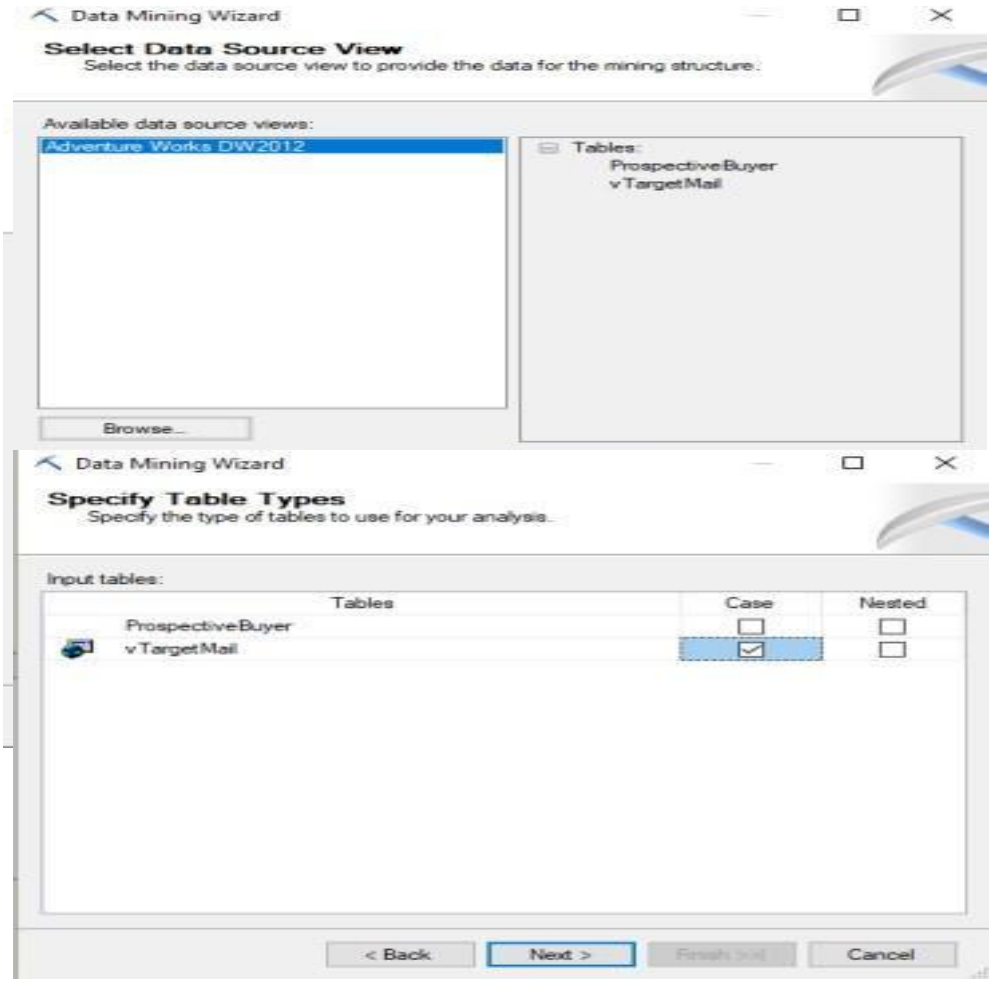
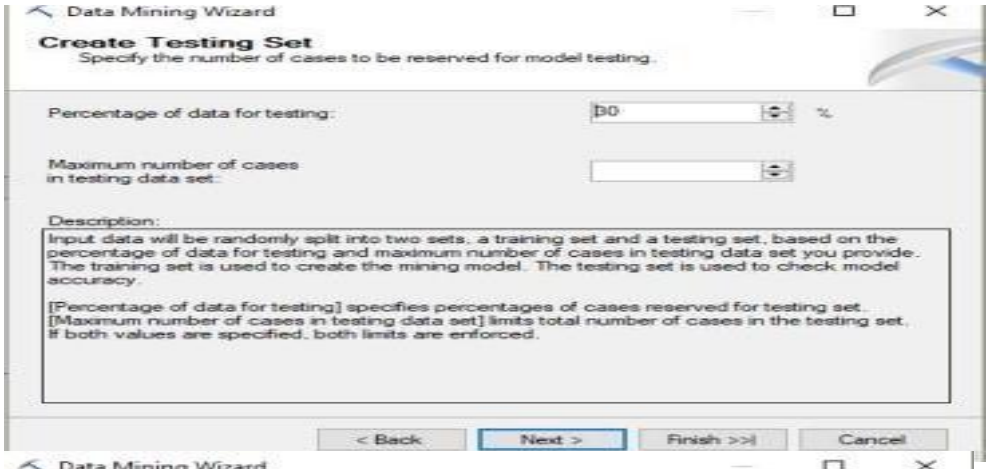
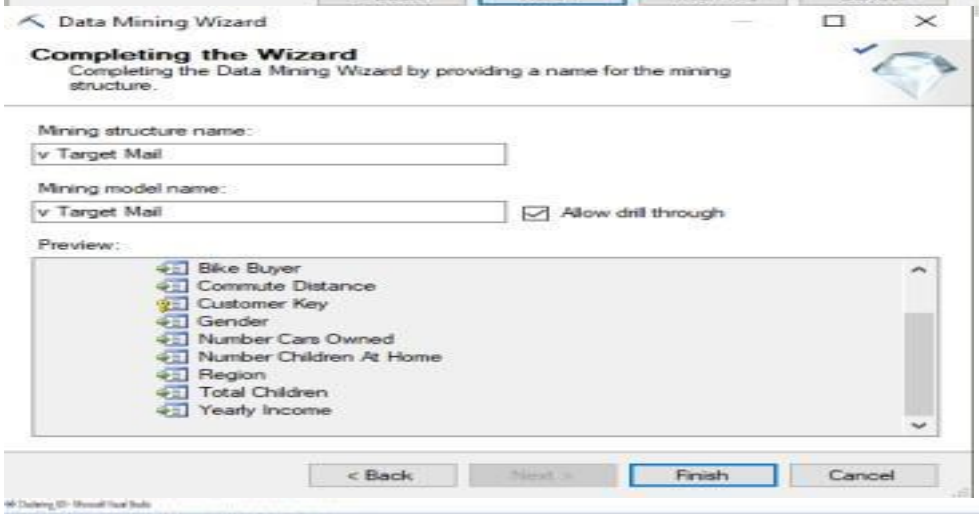
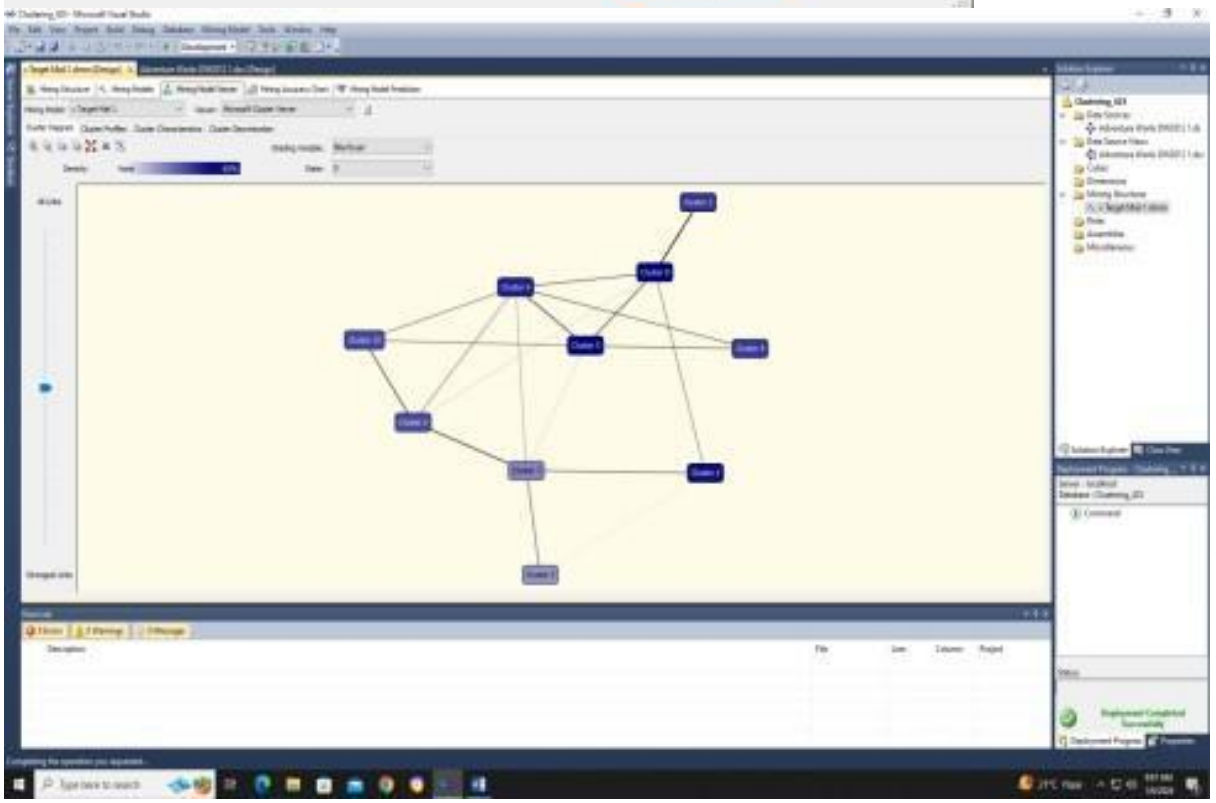


Shubham Yadav 467







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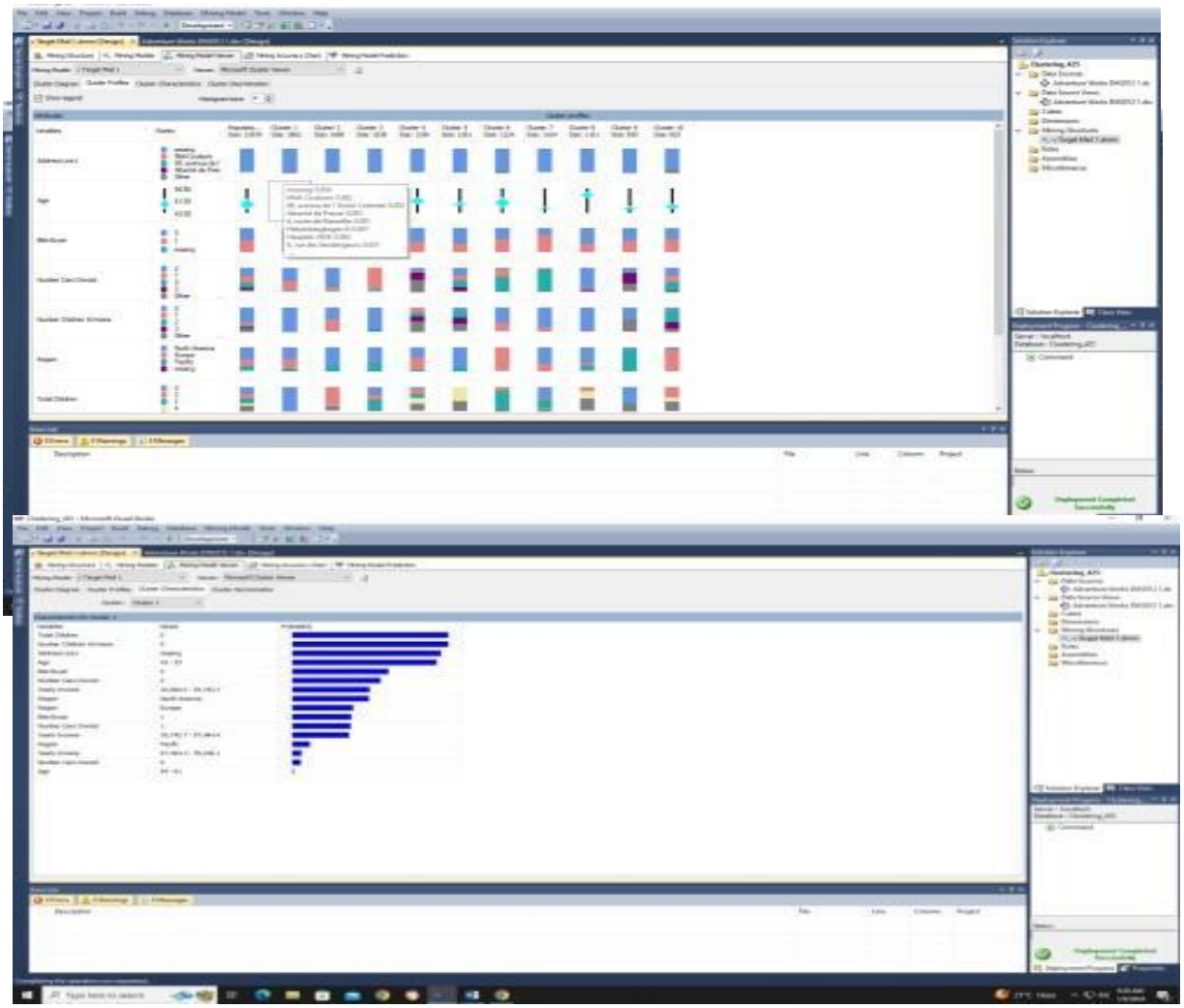

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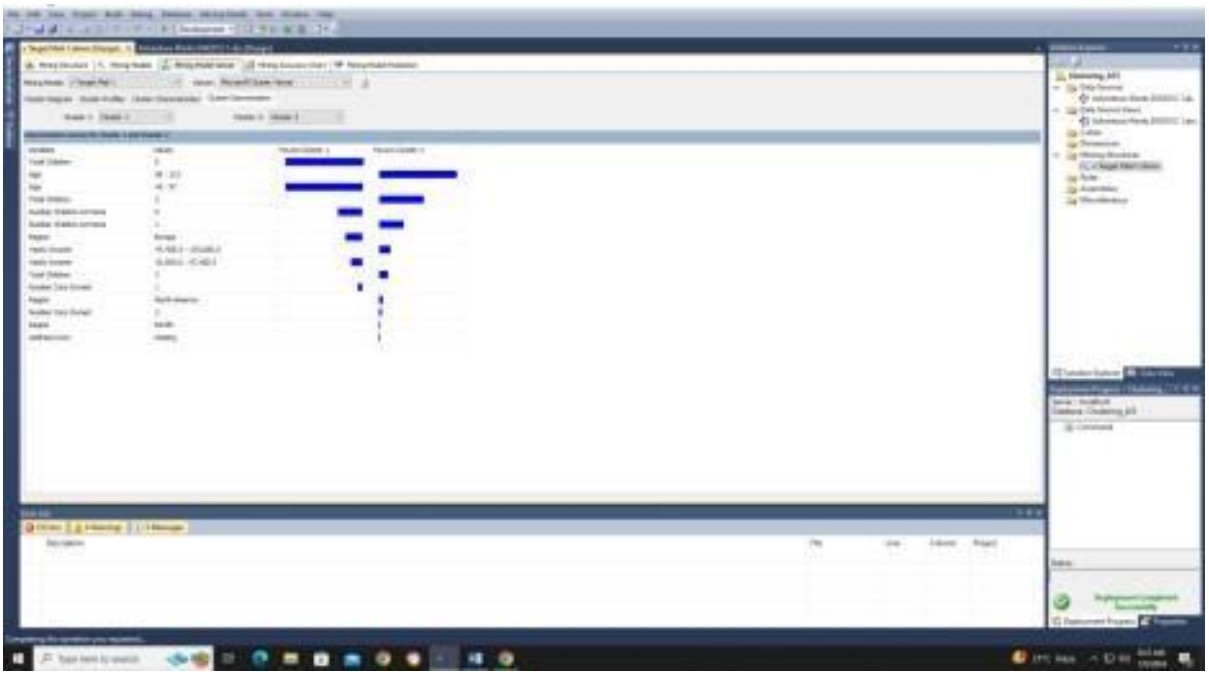
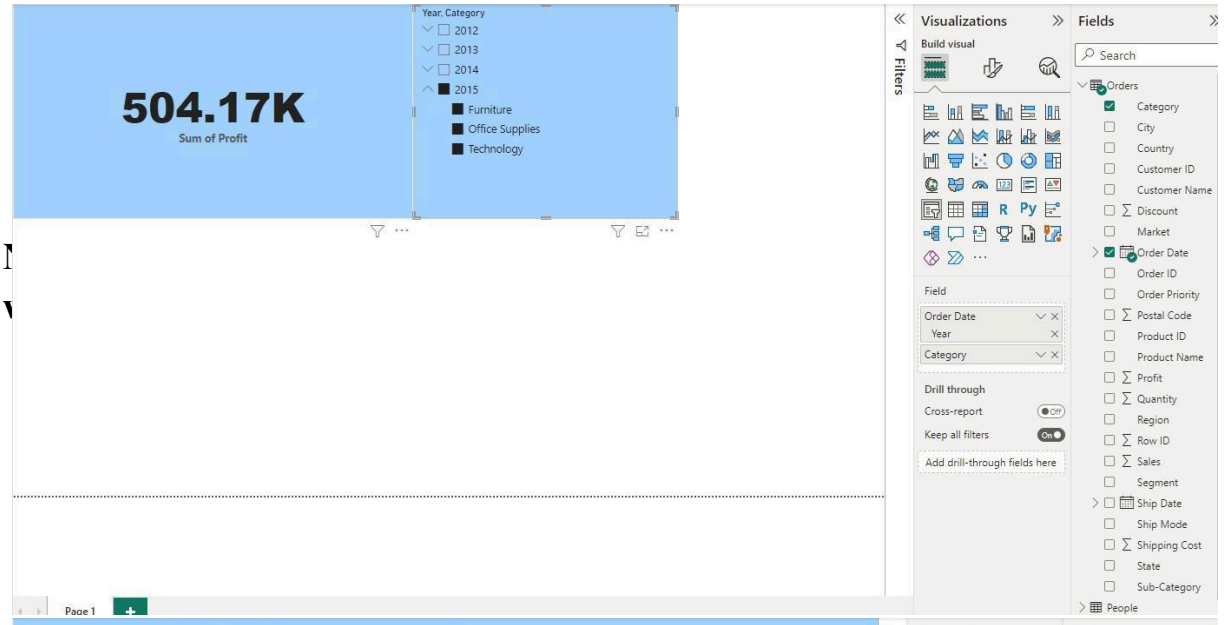
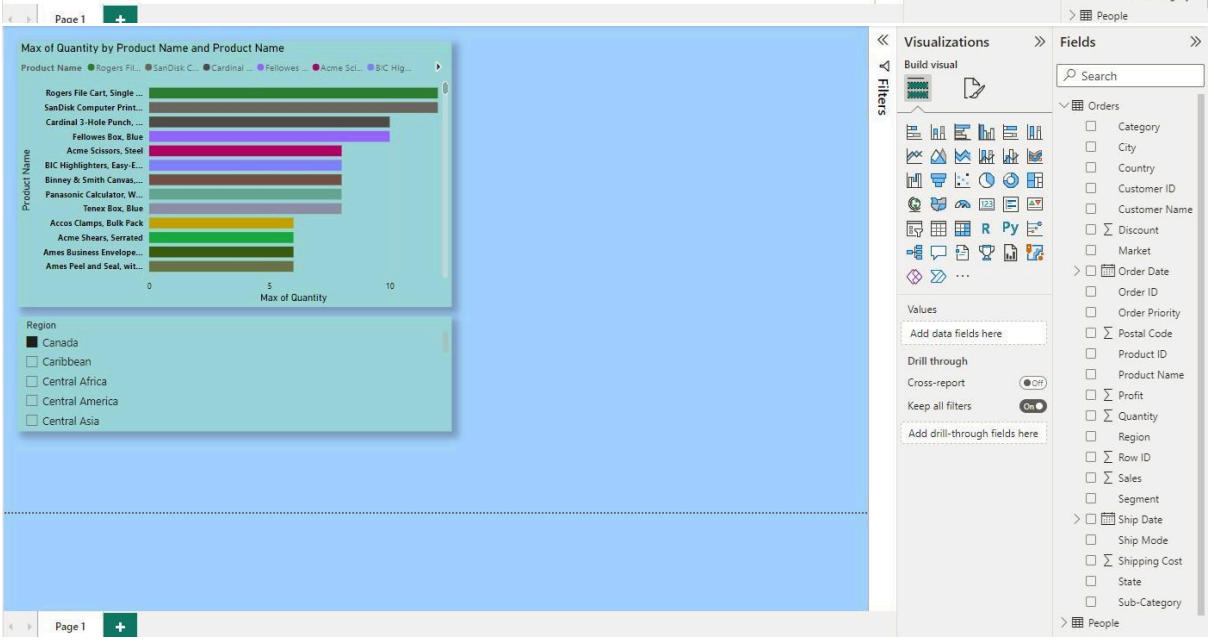


Practical No: 9

Data visualization using power BI (Use of visualization tools like Card, Donut, chart, stacked chart, tree,map etc.)





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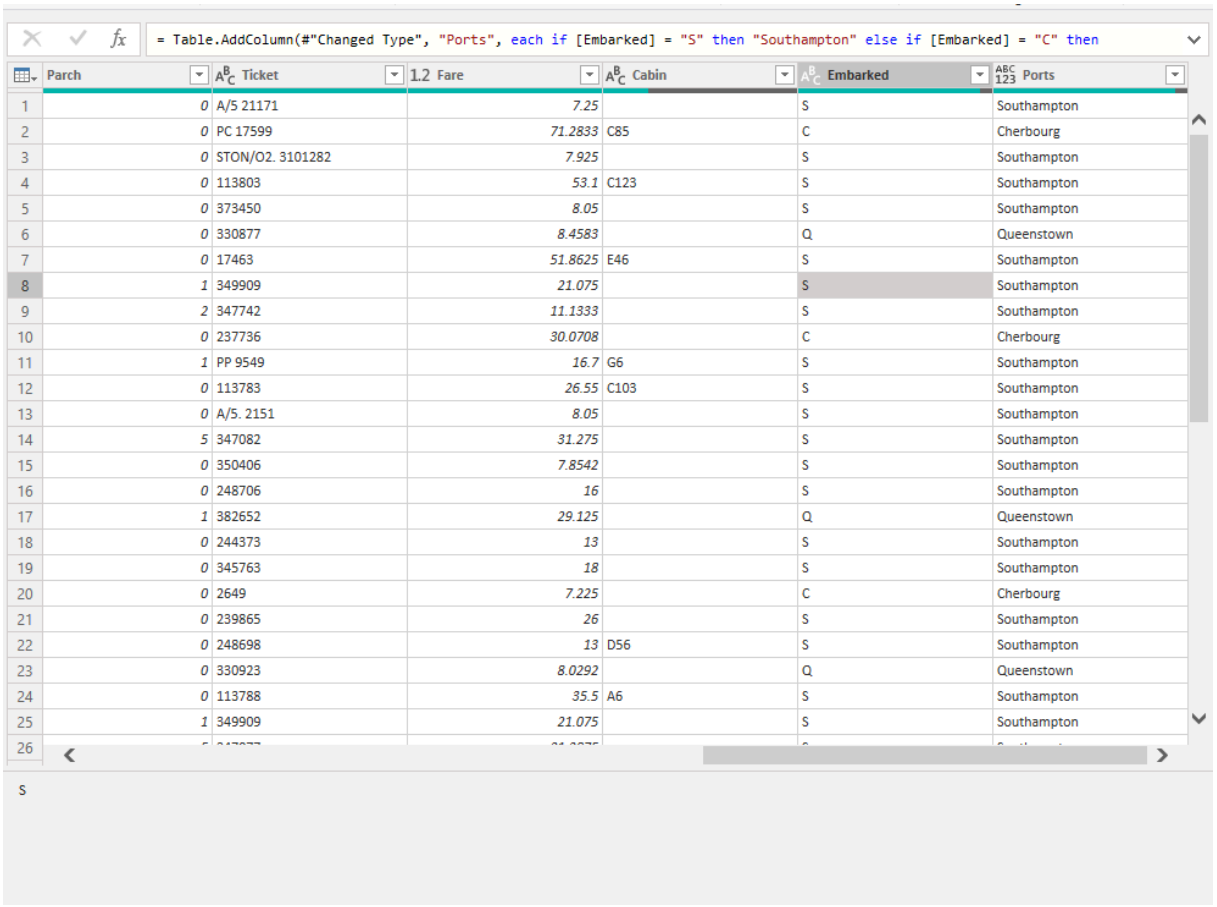
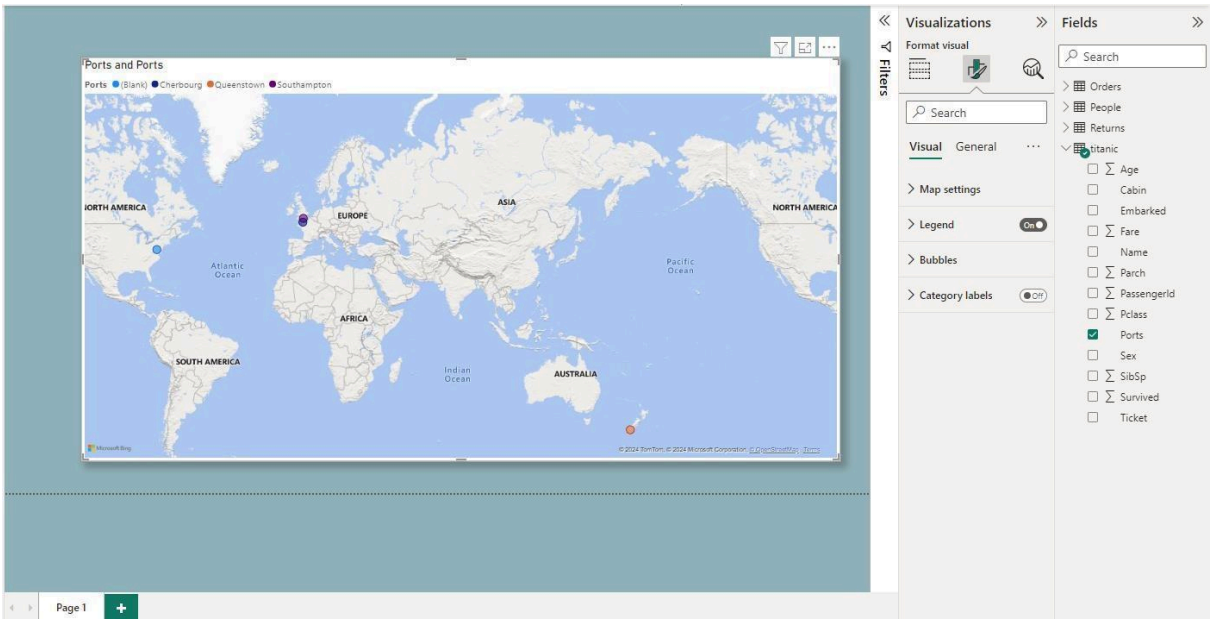


```
= Table.AddColumn(#"Changed Type", "Ports", each if [Embarked] = "S" then "Southampton" else if [Embarked] = "C" then
```

	Parch	Ticket	Fare	Cabin	Embarked	Ports
1	0	A/5 21171	7.25		S	Southampton
2	0	PC 17599	71.2833	C85	C	Cherbourg
3	0	STON/O2. 3101282	7.925		S	Southampton
4	0	113803	53.1	C123	S	Southampton
5	0	373450	8.05		S	Southampton
6	0	330877	8.4583		Q	Queenstown
7	0	17463	51.8625	E46	S	Southampton
8	1	349909	21.075		S	Southampton
9	2	347742	11.1333		S	Southampton
10	0	237736	30.0708		C	Cherbourg
11	1	PP 9549	16.7	G6	S	Southampton
12	0	113783	26.55	C103	S	Southampton
13	0	A/5. 2151	8.05		S	Southampton
14	5	347082	31.275		S	Southampton
15	0	350406	7.8542		S	Southampton
16	0	248706	16		S	Southampton
17	1	382652	29.125		Q	Queenstown
18	0	244373	13		S	Southampton
19	0	345763	18		S	Southampton
20	0	2649	7.225		C	Cherbourg
21	0	239865	26		S	Southampton
22	0	248698	13	D56	S	Southampton
23	0	330923	8.0292		Q	Queenstown
24	0	113788	35.5	A6	S	Southampton
25	1	349909	21.075		S	Southampton
26						

S

Using titanic dataset to map locations on MAP



Now analyzing the number of people survived based on their Sex

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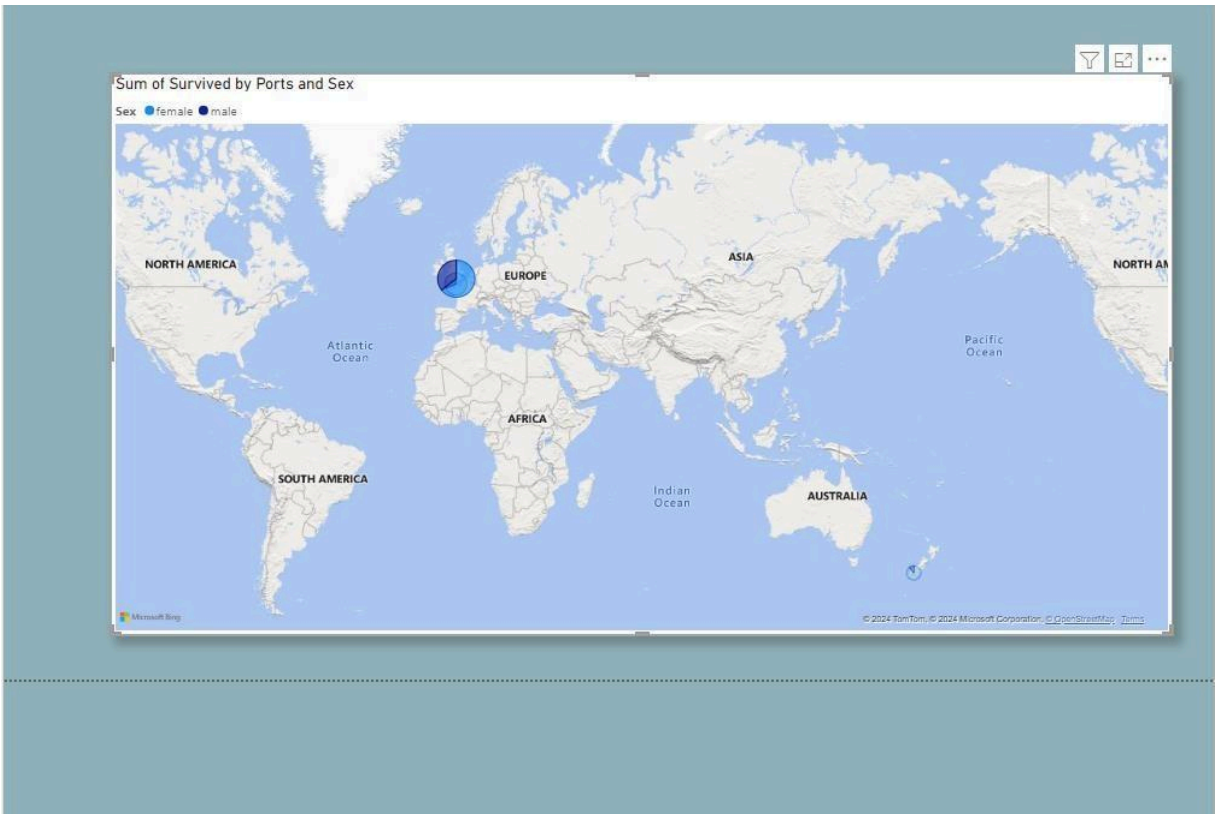
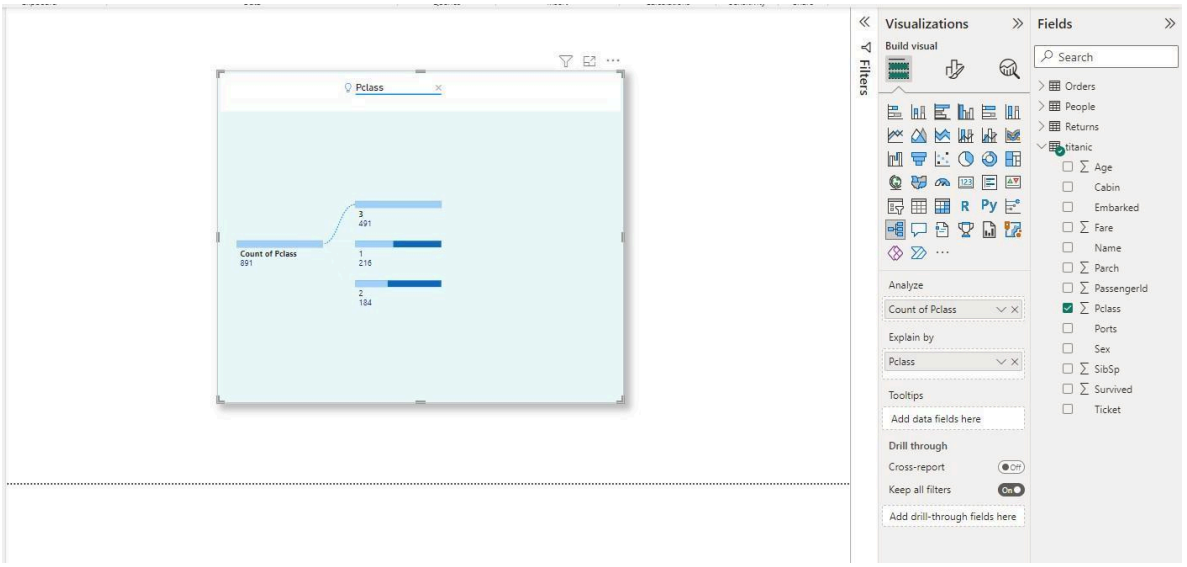


Now Analyzing using Decomposition Tree



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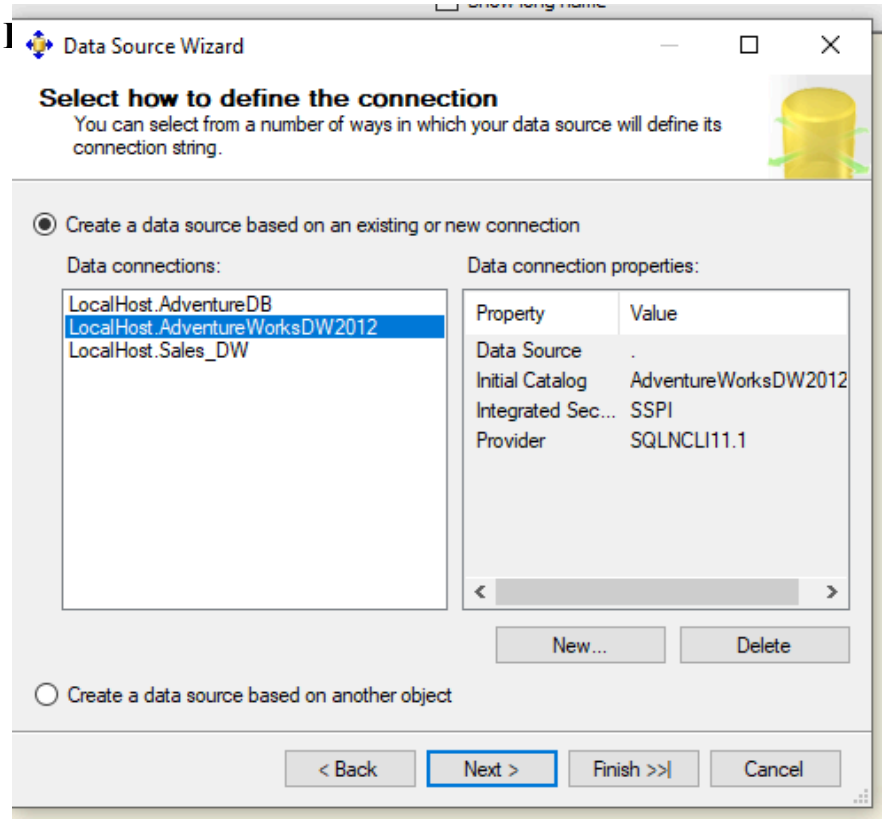
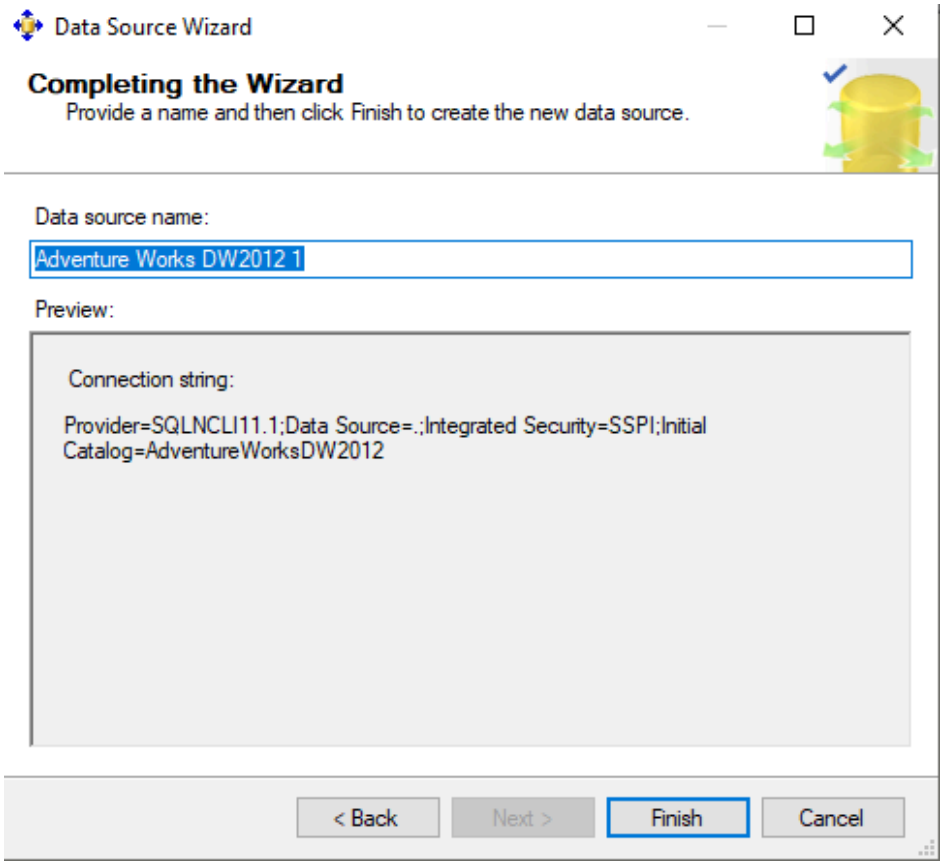
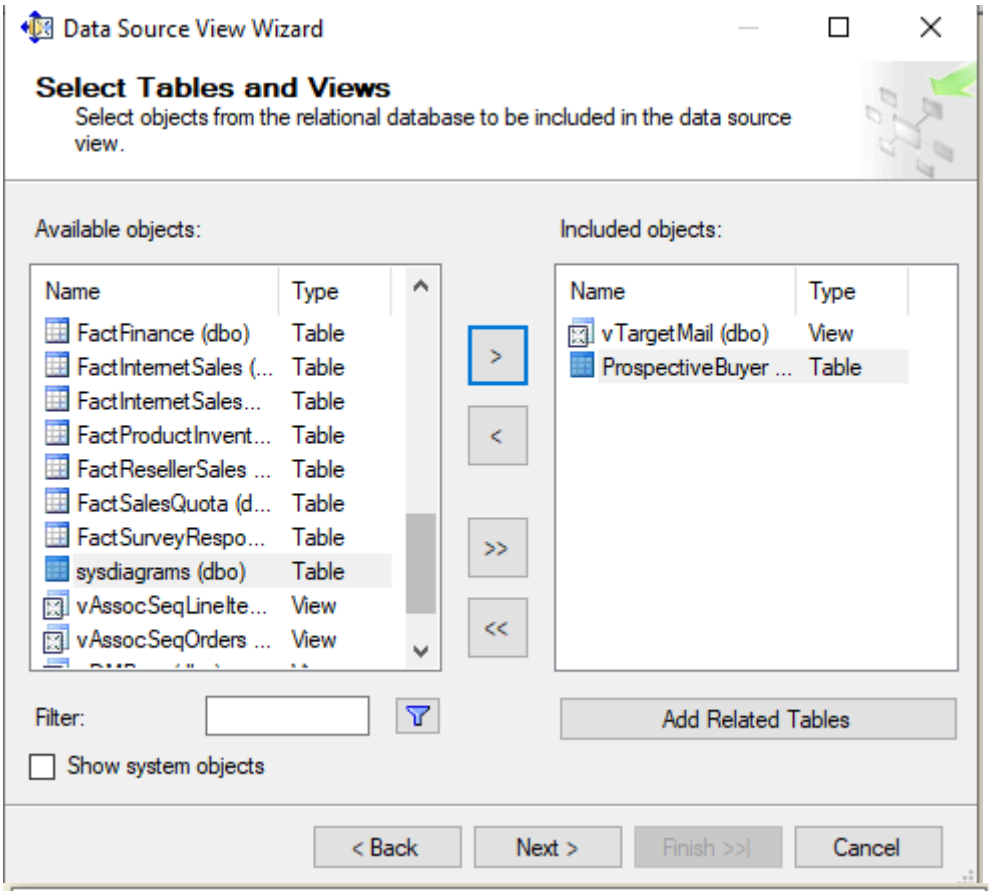
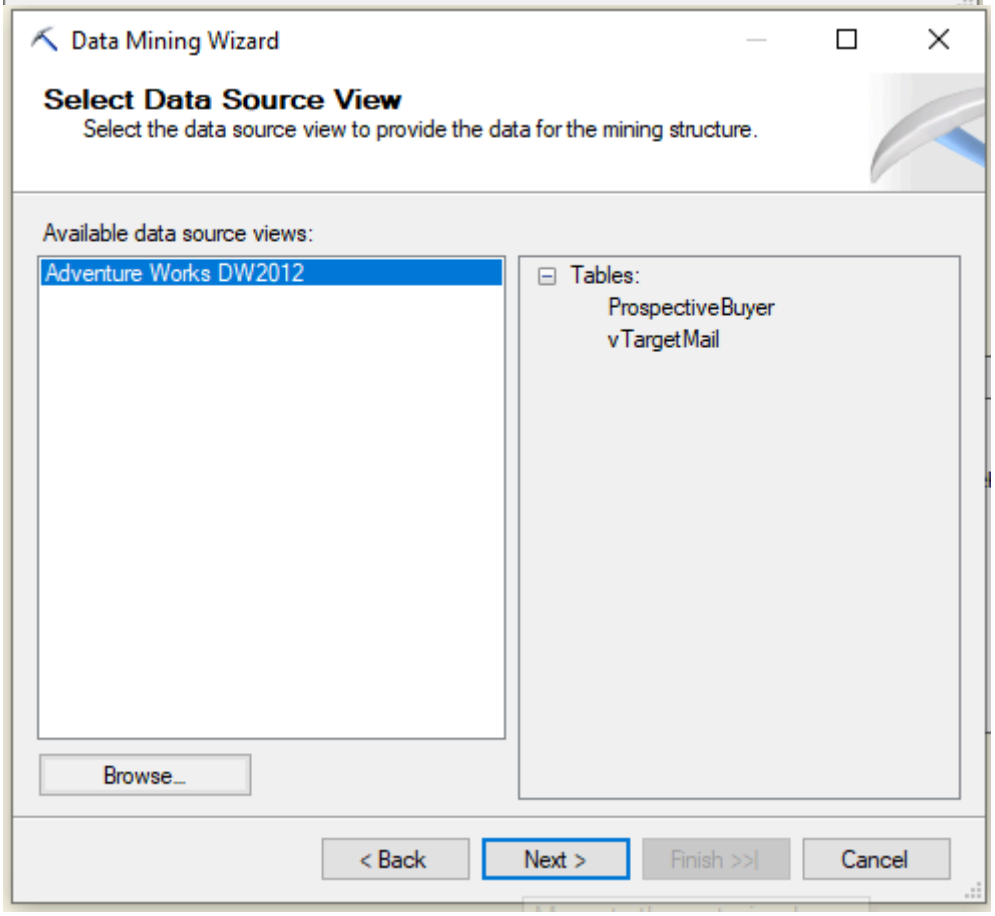
1






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
FactFinance (dbo)
Table
FactInternetSales (...
Table
FactInternetSales...
Table
FactProductInvent...
Table
FactResellerSales ...
Table
FactSalesQuota (d...
Table
FactSurveyRespo...
Table
sysdiagrams (dbo)
Table
vAssocSeqLineIte...
View
vAssocSeqOrders ...
View
>
<
>>
<<
Included objects:
Name
Type
vTargetMail (dbo)
View
ProspectiveBuyer ...
Table
Filter:
Add Related Tables
Show system objects
< Back
Next >
Finish >>|
Cancel


Data Mining Wizard
Select Data Source View
Select the data source view to provide the data for the mining structure.
Available data source views:
Adventure Works DW2012
Tables:
ProspectiveBuyer
vTargetMail
Browse...
< Back
Next >
Finish >>|
Cancel

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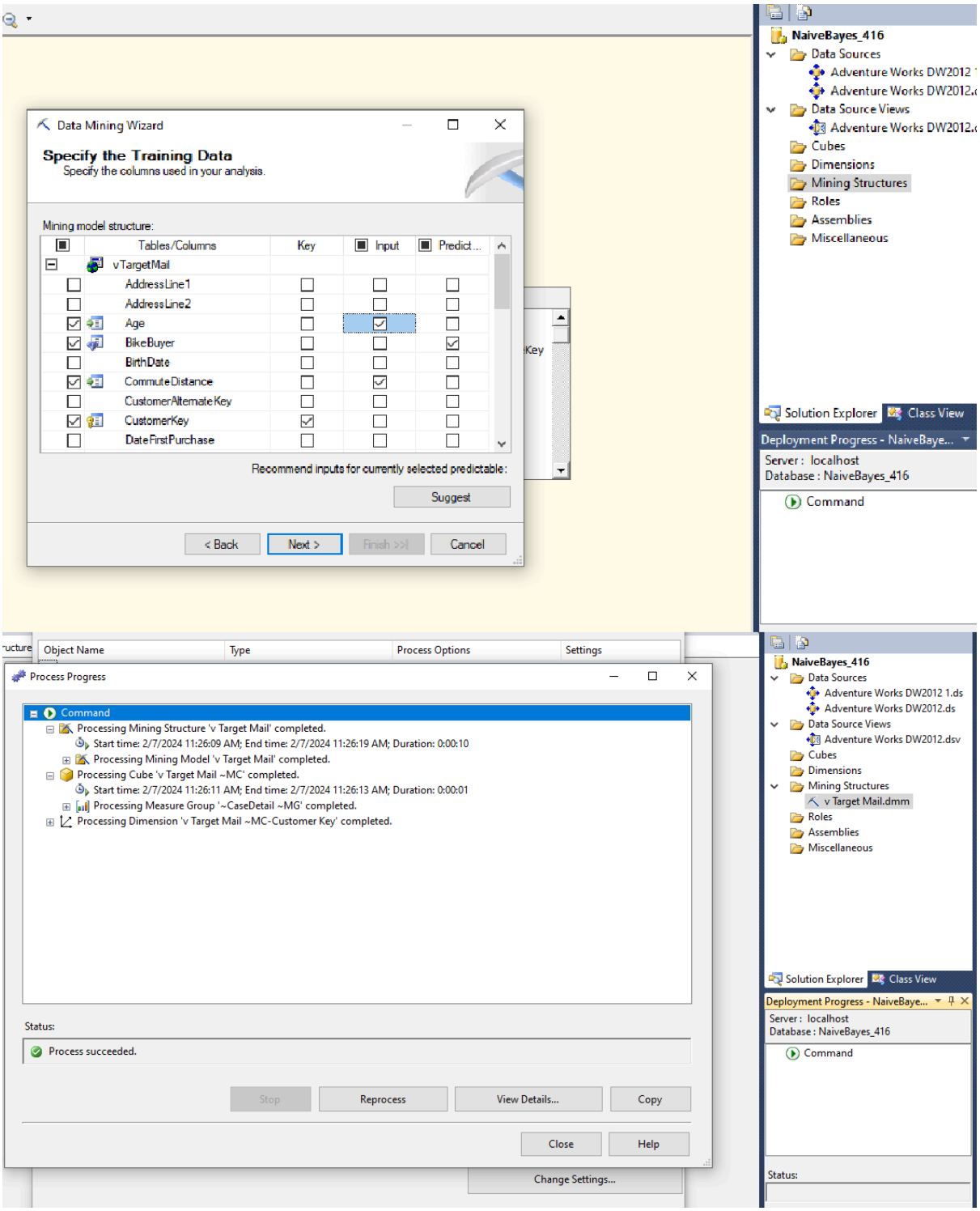

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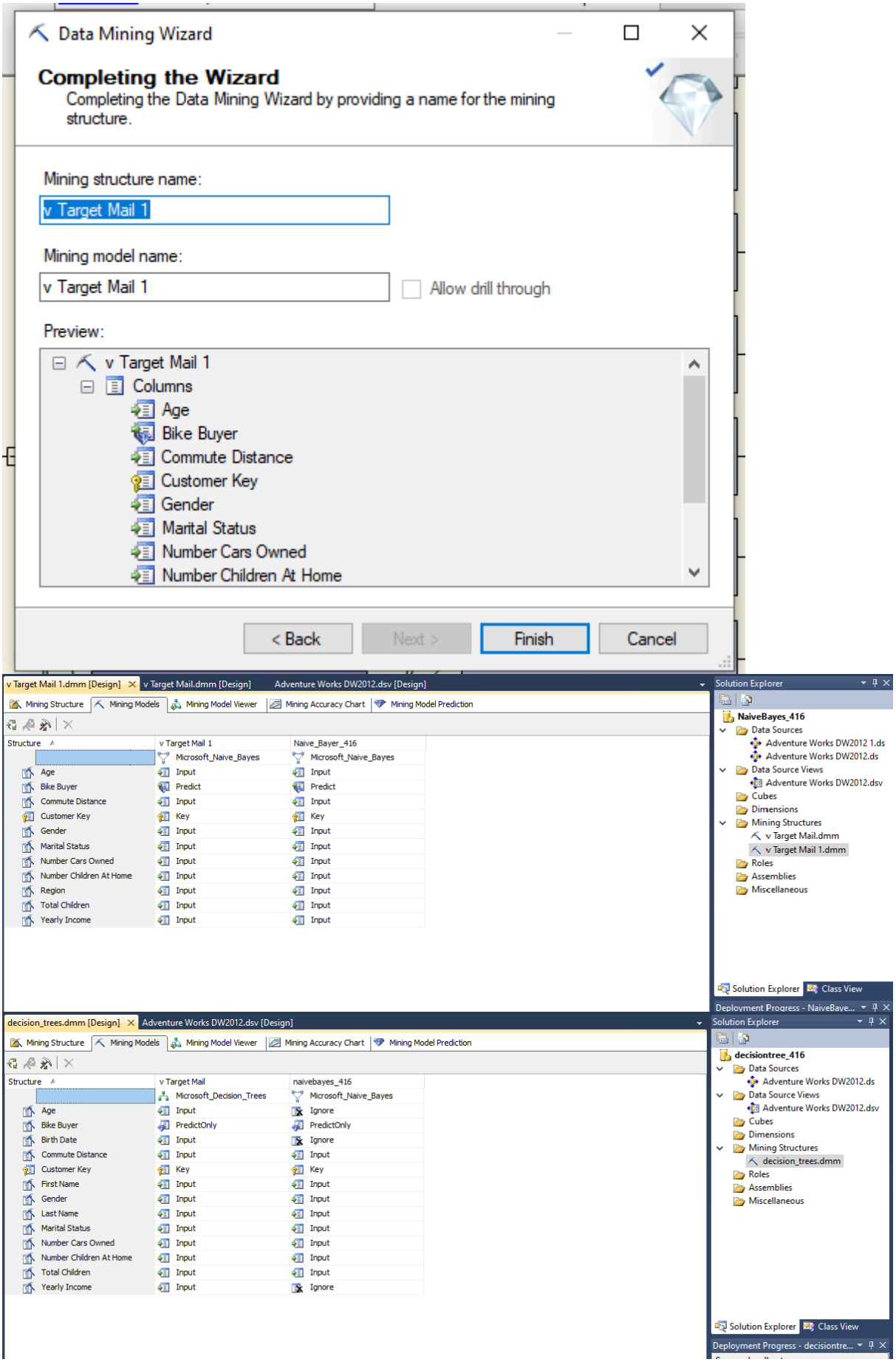

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