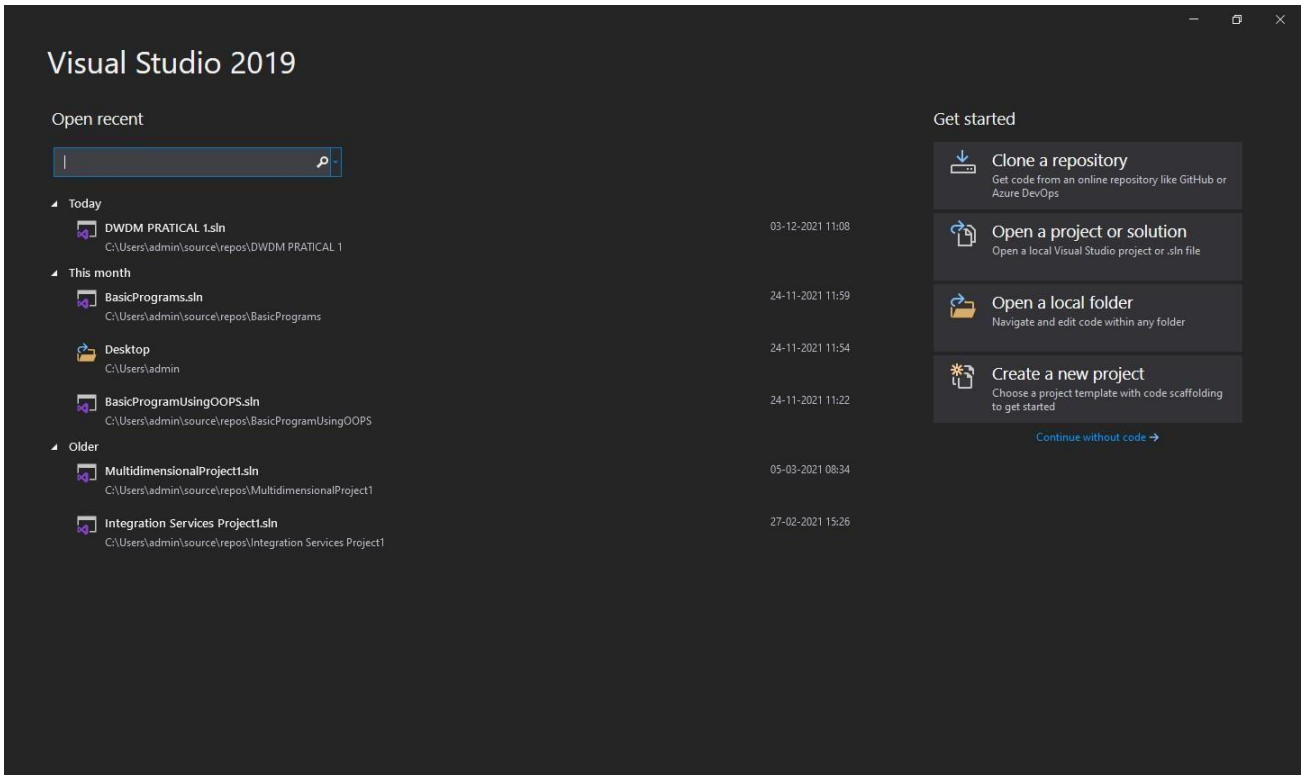
Name: Sayed Mohammed Owais **Roll no: 45**

Class: MSc CS Part I **Subject: DWDM**

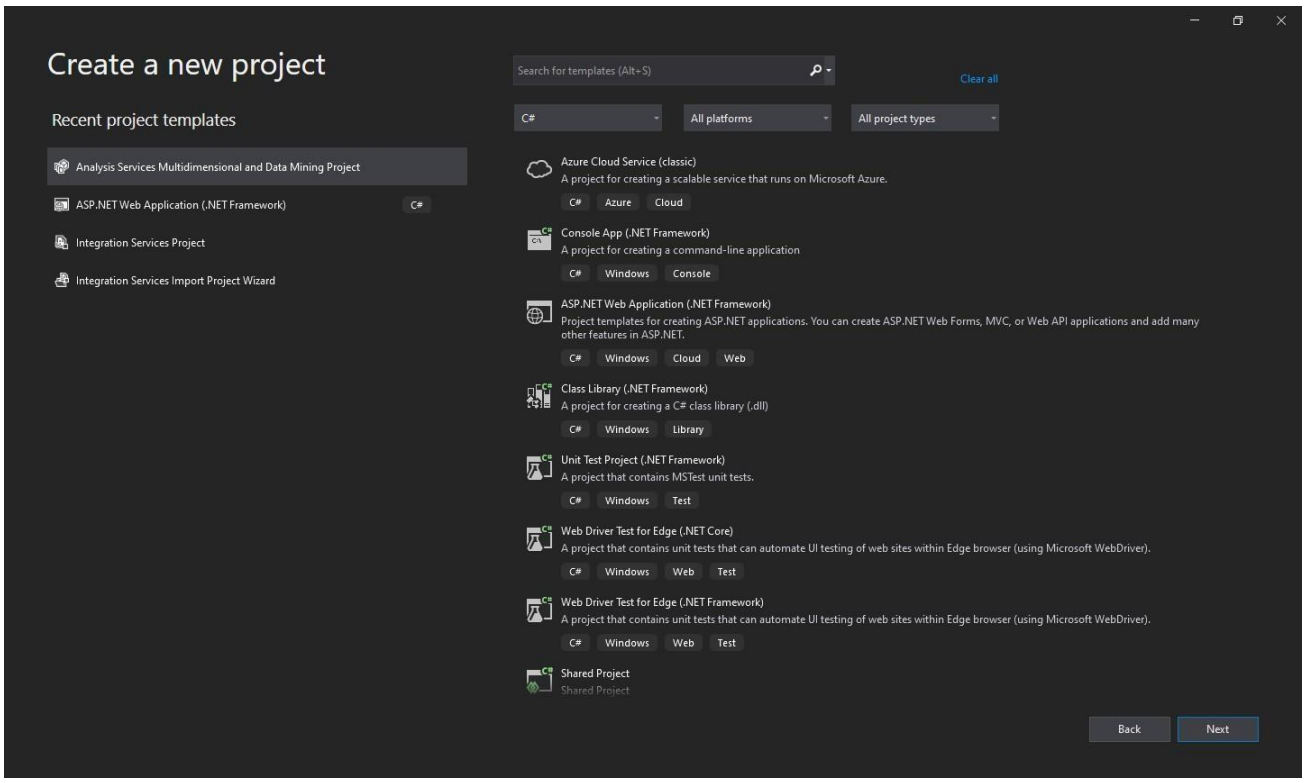
DMDW Practicals

Aim: Perform analysis on Adventure Works dataset using Microsoft Excel and Visual Studio 2019.

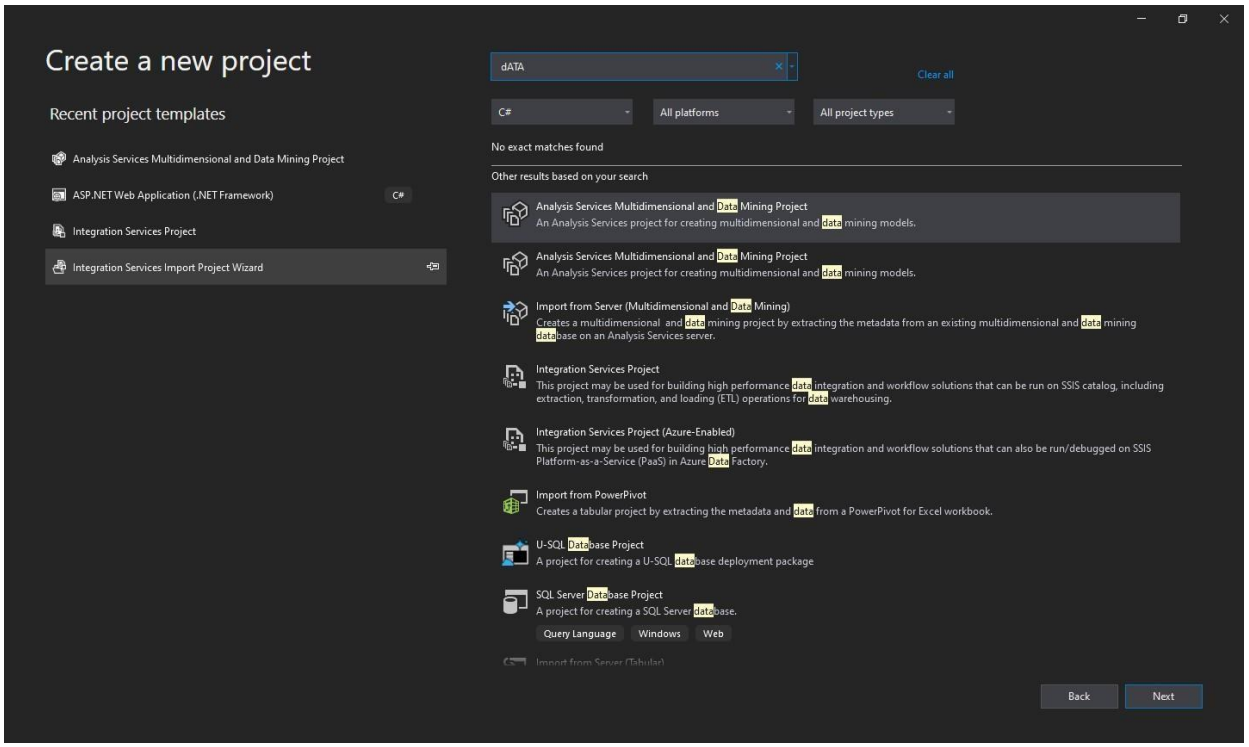
- Open Visual Studio 2019. You should be greeted with this screen.



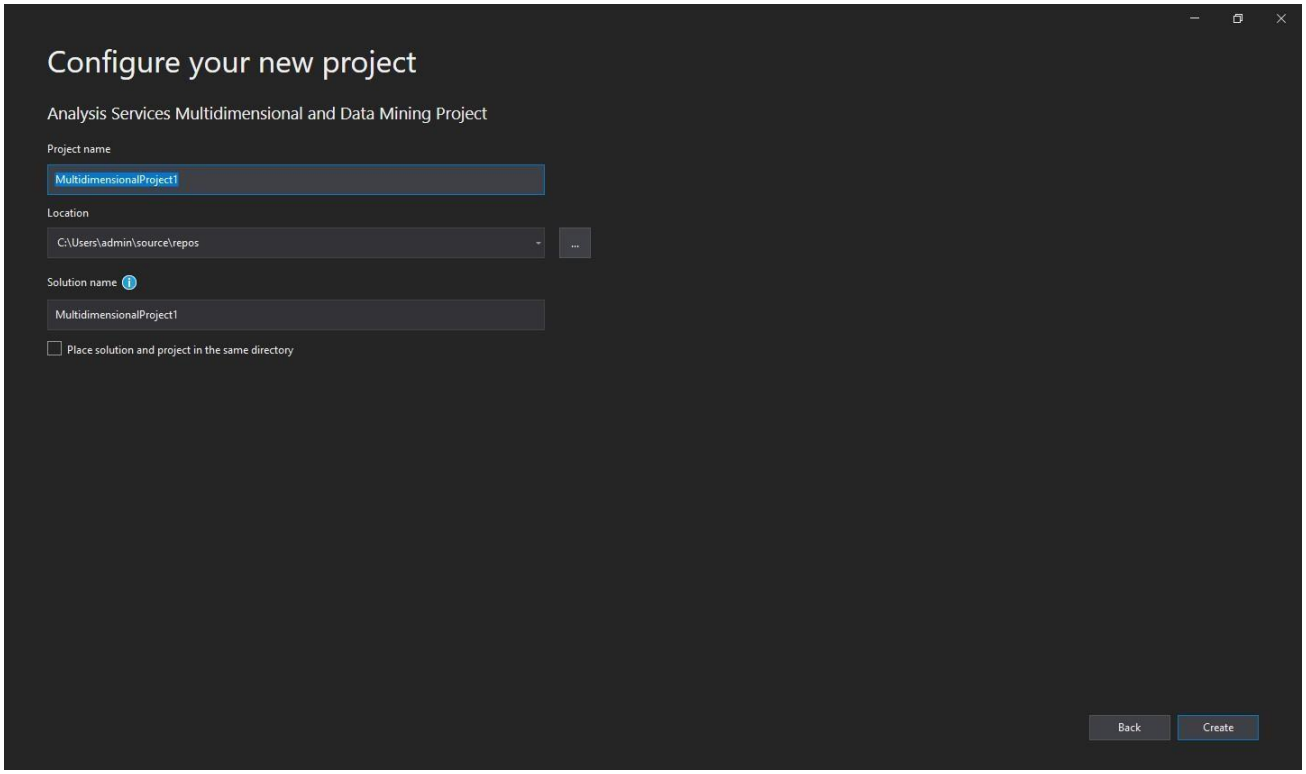
- Click on the “Create a new project” button present on the right hand side of the screen. The application will now transition to this screen.



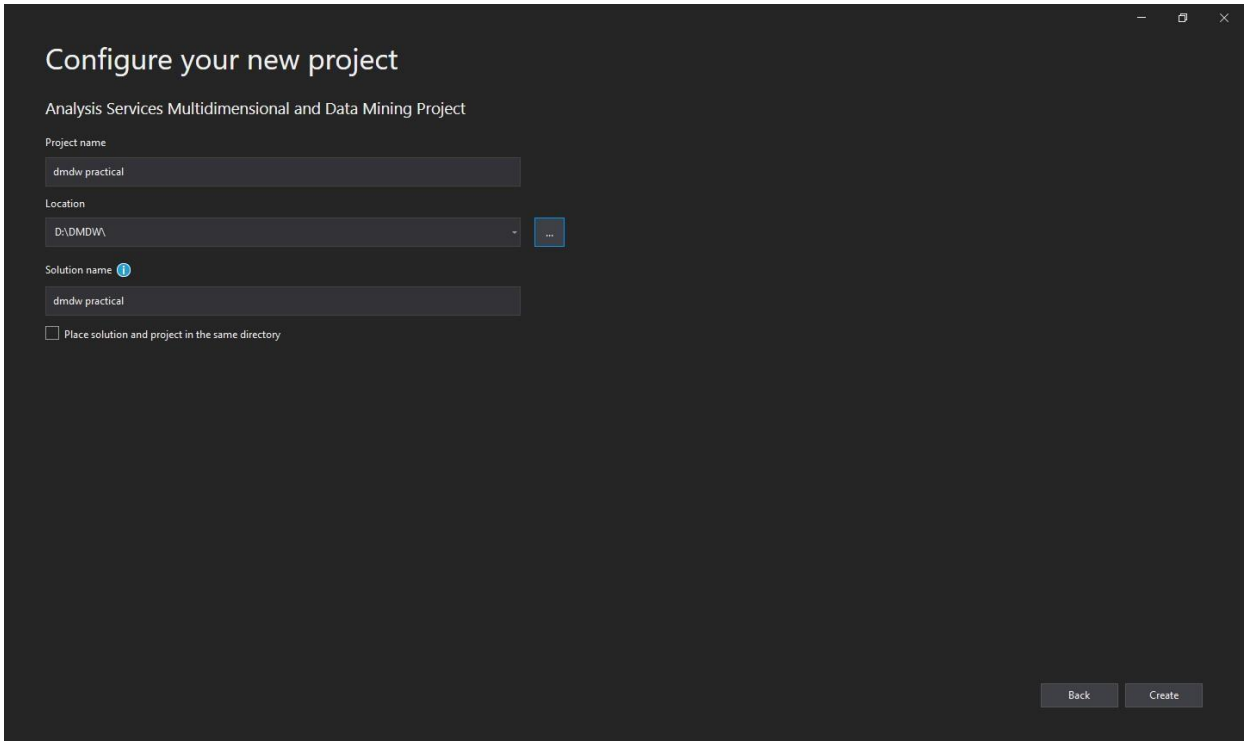
- Now, select “Analysis Services Multidimensional and Data Mining Project” button from the ‘Recent Project Templates’ list if present else search for the same using the search bar. You may be prompted to install this package if it is not available locally. Searching for the above template yields this screen:



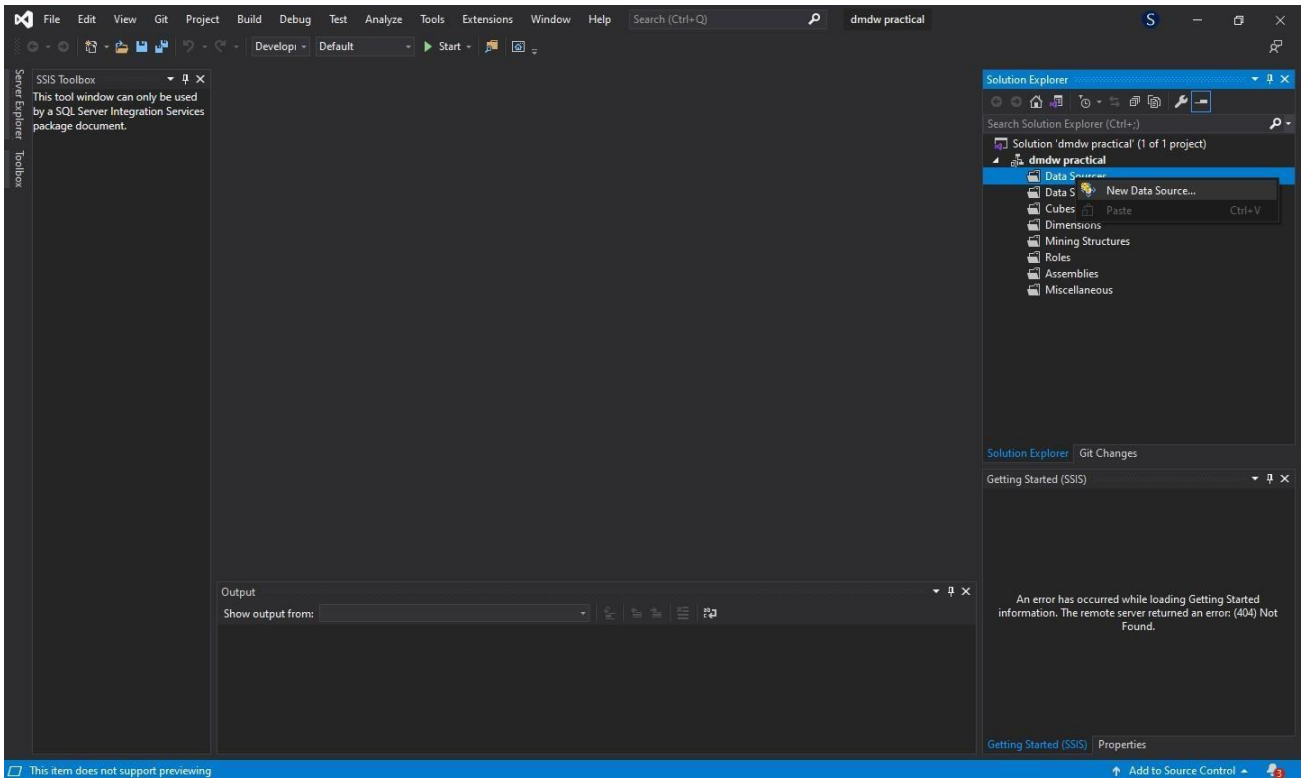
- Click on “Next”. The screen will now transition to this screen:



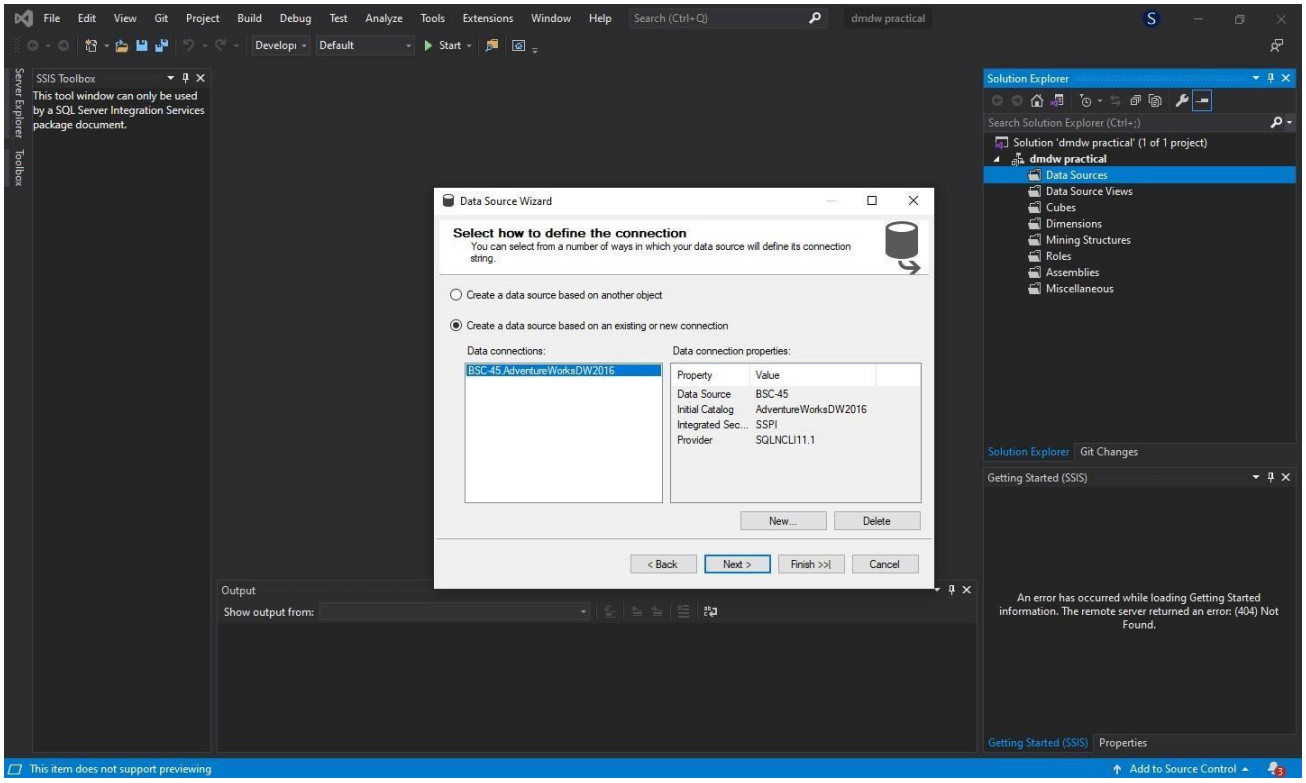
- You can provide the location of the project as well its name.



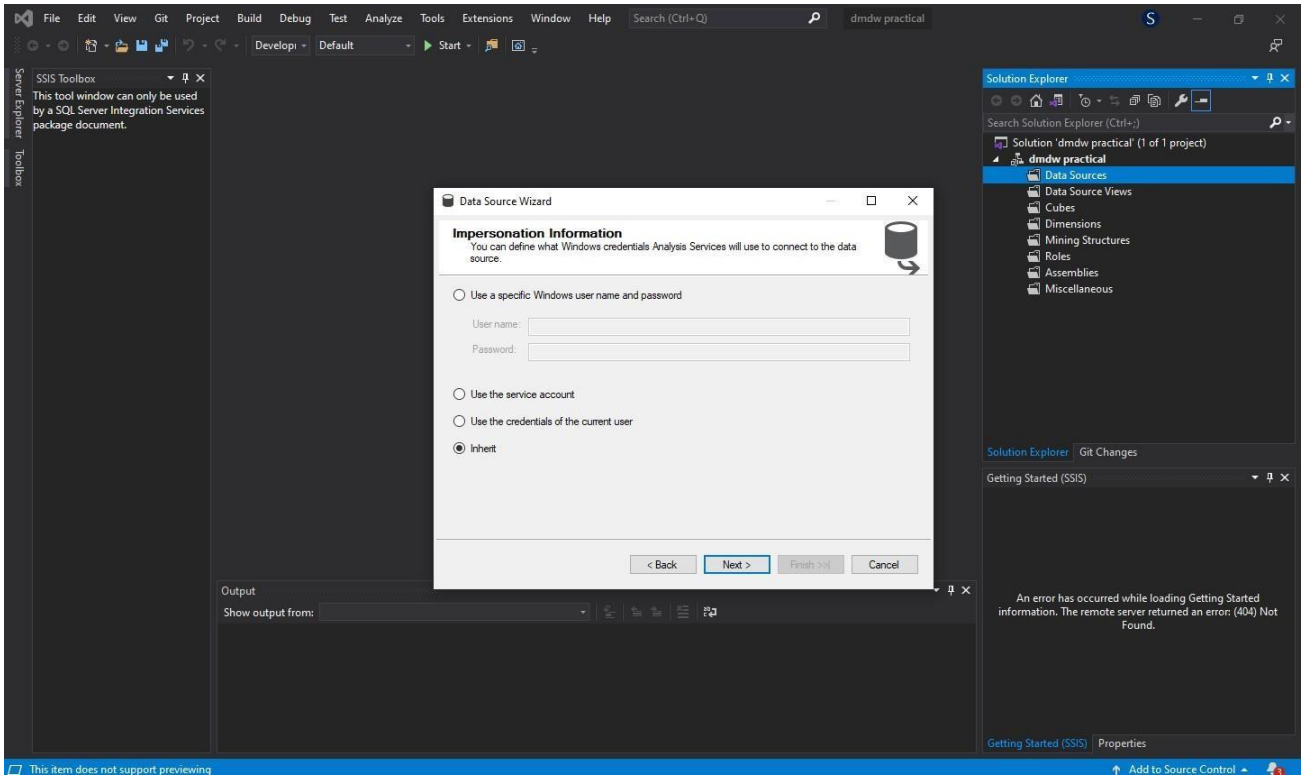
- Click on “Create”. The main window of Visual Studio will be displayed. Now, on the right pane, the child node ‘Data Sources’ can be found. Right click it to get the option “New Data Source”.



- Click on “New Data Source” option. A new window named ‘Data Source Wizard’ will appear. Click on “Next”. Now, the window should transition to the ‘Select how to define the connection’ window. Select the “Create a data source based on new or existing connection”. An entry should now appear in the ‘Data Connections’ and ‘Data Connection Properties’. Select the appropriate connection.

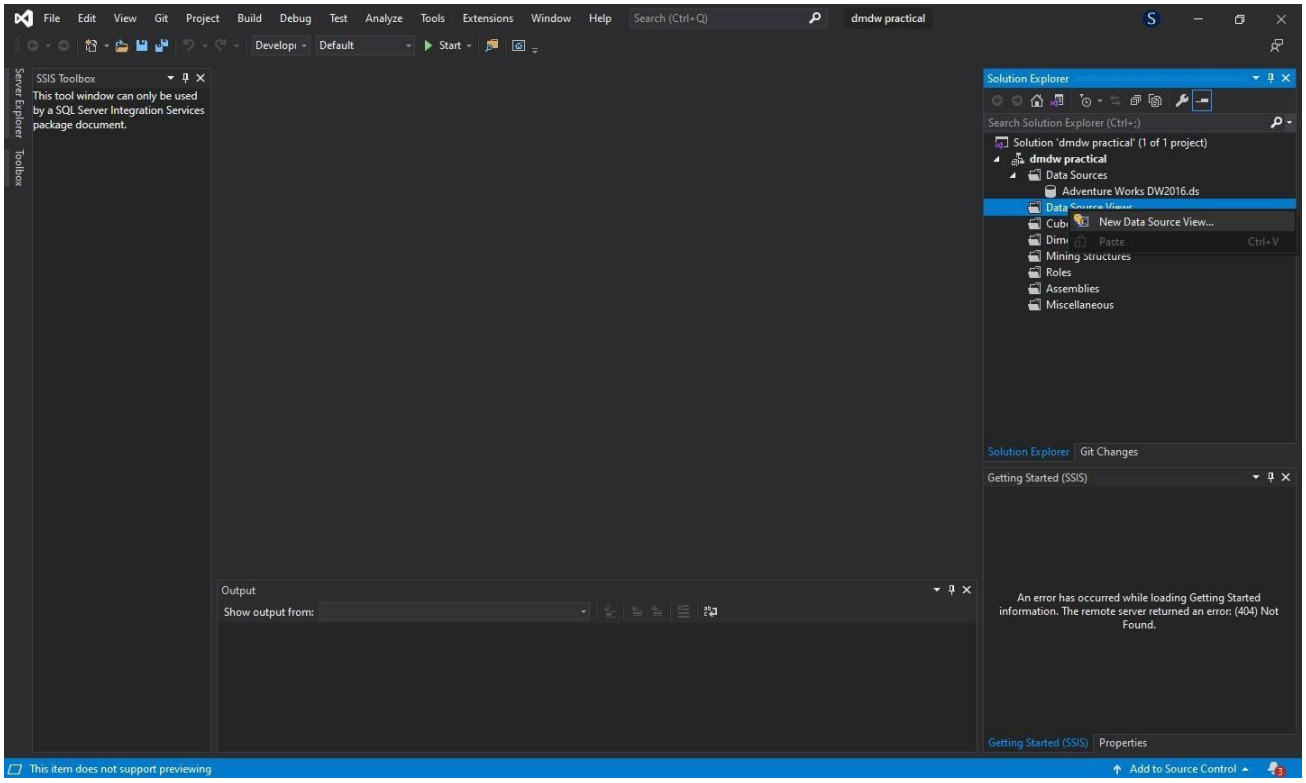


- Click on “Next”. The window will further transition to the ‘Impersonation Information’ window. Select the “Inherit” option.

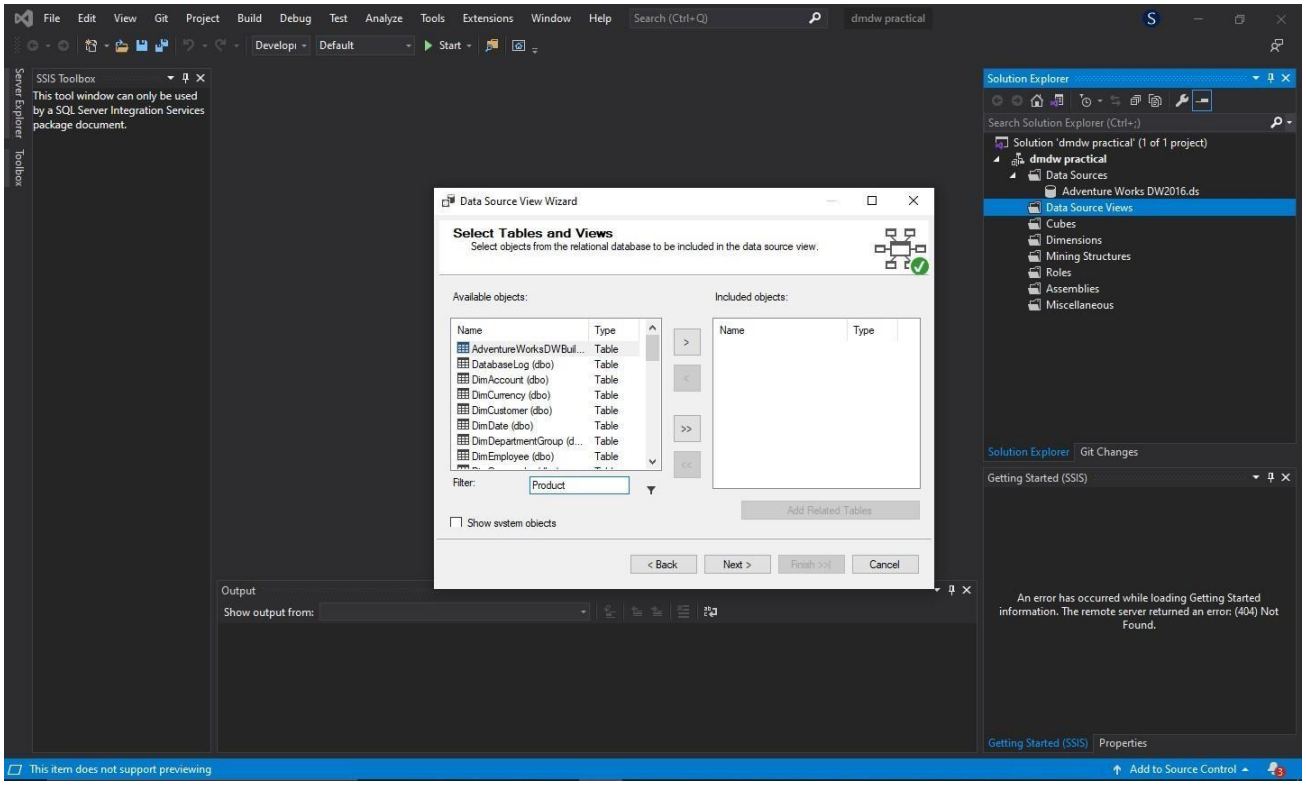


- Click on “Next”. The window will now transition to the last window.
  Click on “Finish”. The window will now close to reveal a child element in the ‘Data Sources’ tree item. Right click on the ‘Data

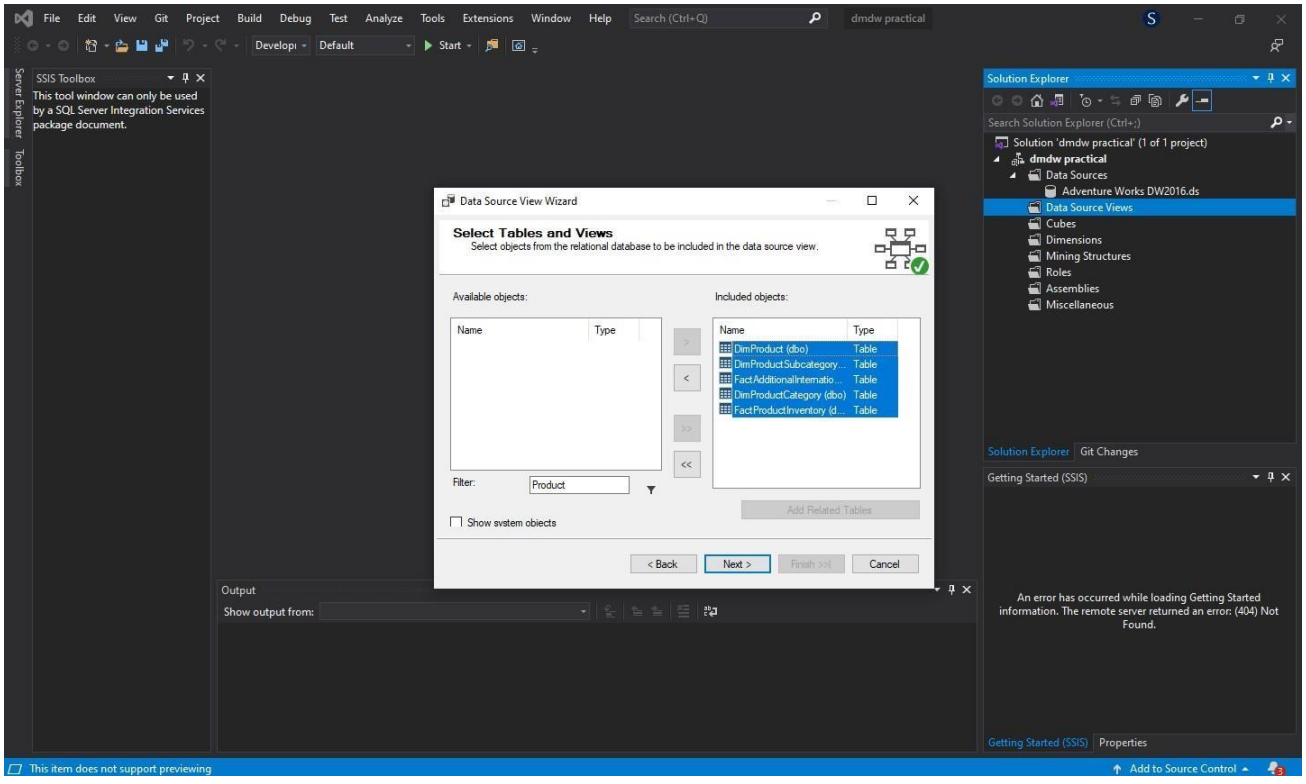
Source Views’ tree item present directly below the ‘Data Sources’ parent node to generate a popup menu with the “New Data Source View” menu item.



- Click “New Data Source View” to create a new window titled ‘Data
  Source View Wizard’. Click on “Next” to transition the window to ‘Select Tables and Views’ state. Enter a filter of your choice and press the adjoining button to apply the filter.

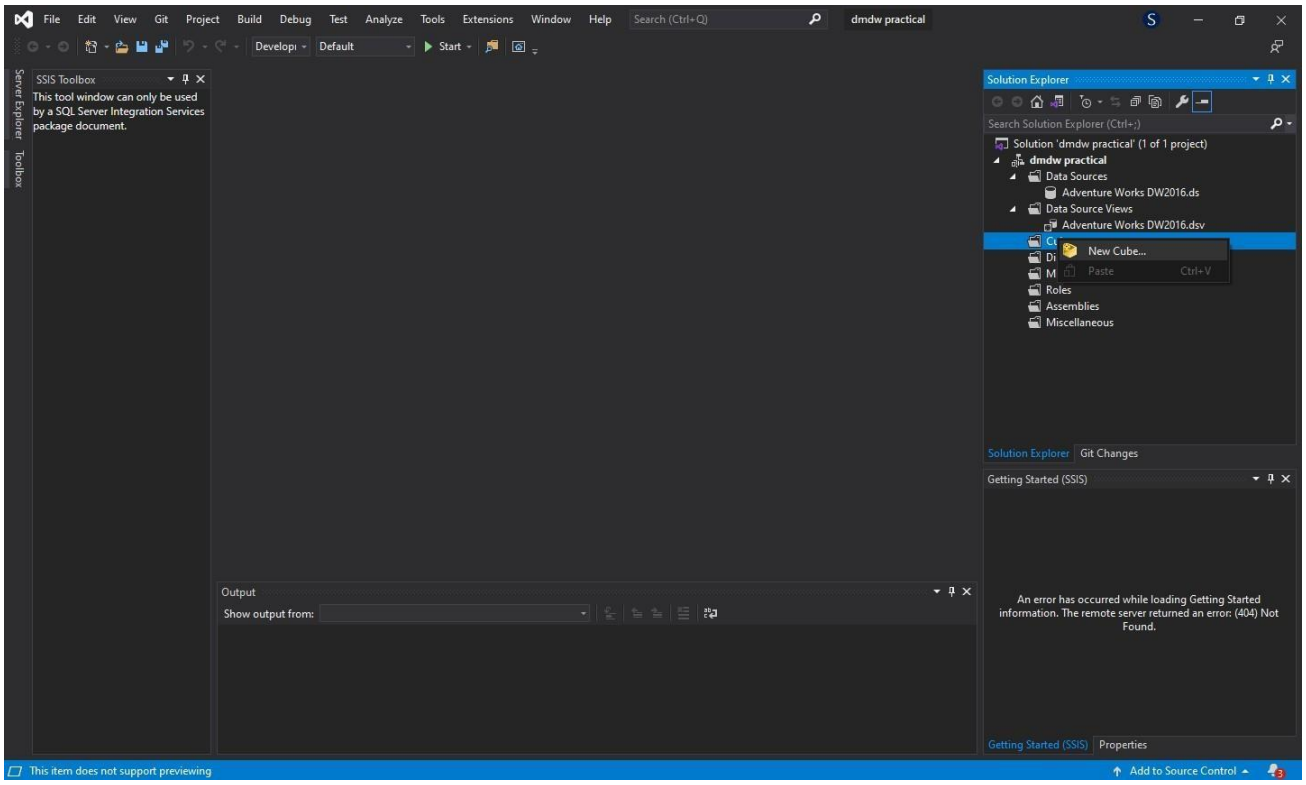


- Now, click on the “>>” button to select all the filtered entries from the ‘Available Objects’ into the ‘Included Objects’ list.

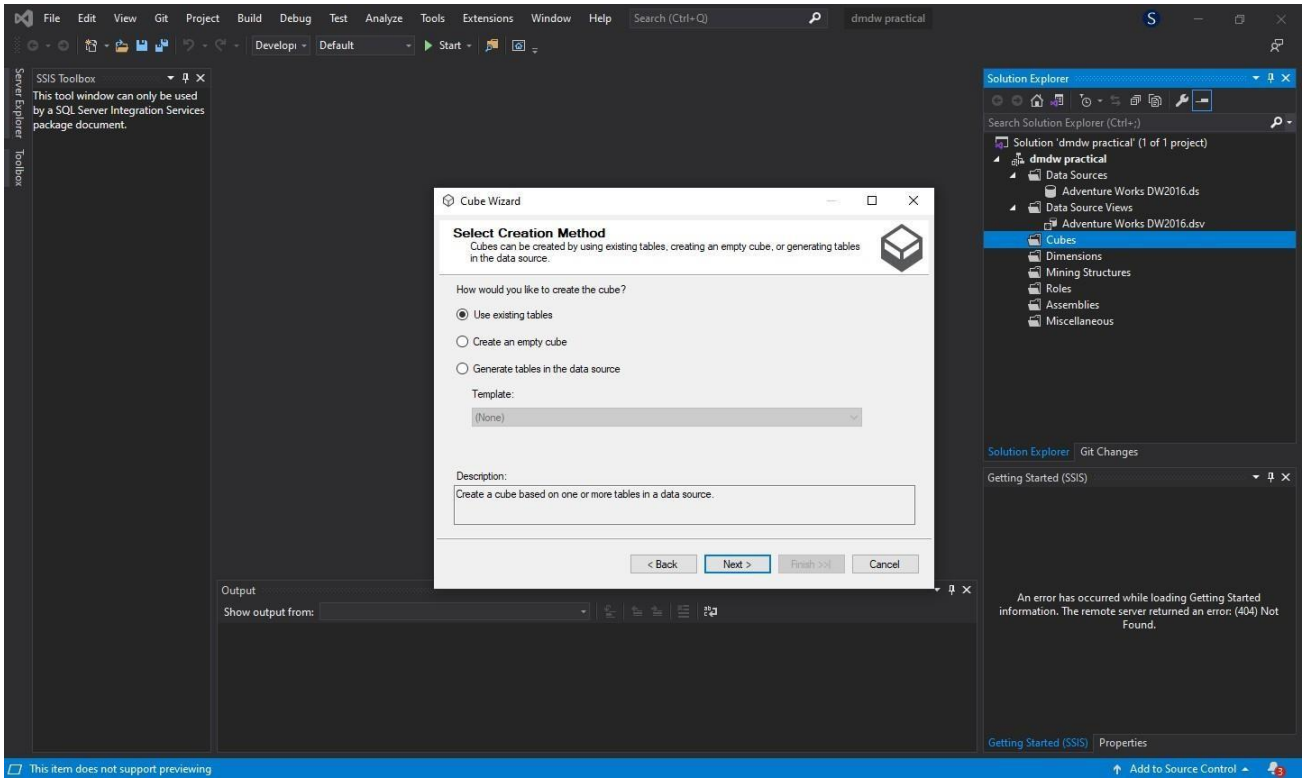


- Click on “Next”. The window will further transition to a new state. Click on “Finish” to close the window. The window will now close to reveal a child node in the ‘Data Source Views’ tree item. Right

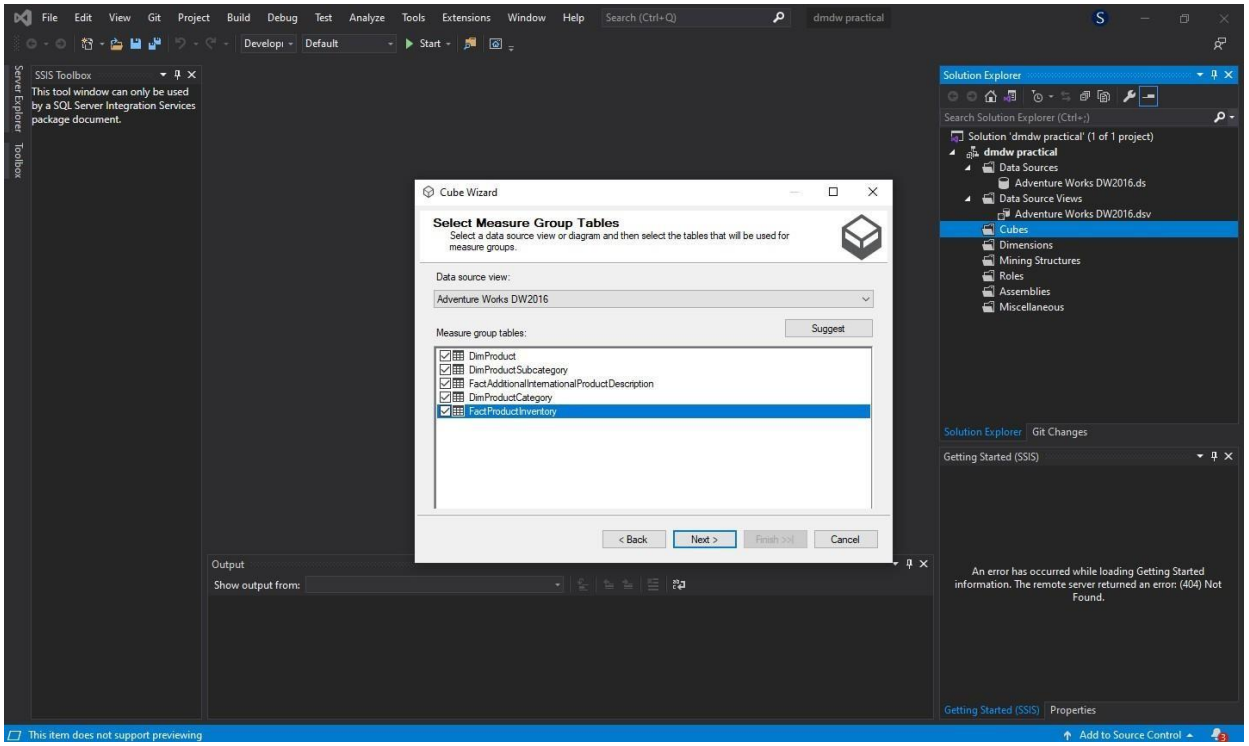
click on the ‘Cubes tree item present directly below the ‘Data Source Views’ parent node to generate a popup menu with the “New Cube” menu item.



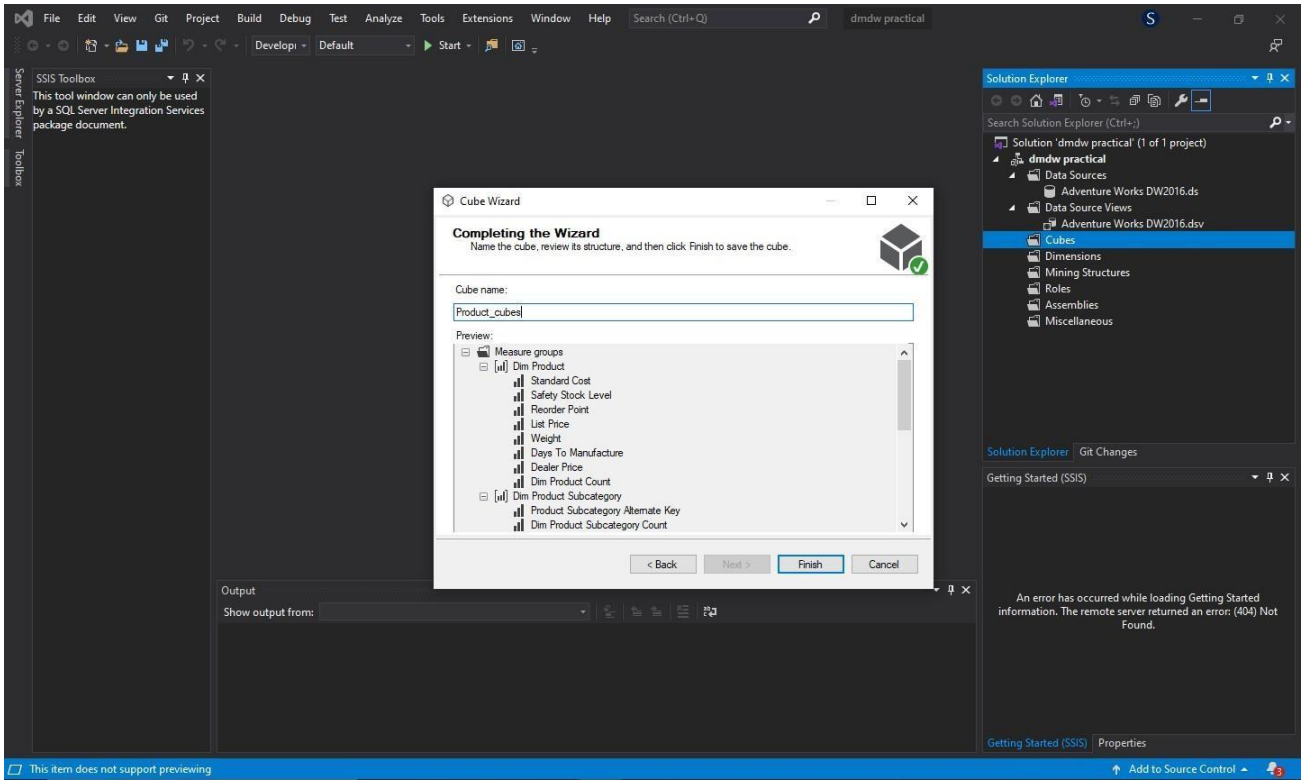
- Click “New Cube...” to create a new window titled ‘Cube Wizard’. Click on “Next” to transition the window to ‘Select Creation
Method’ state. Select the “Use existing tables” option.



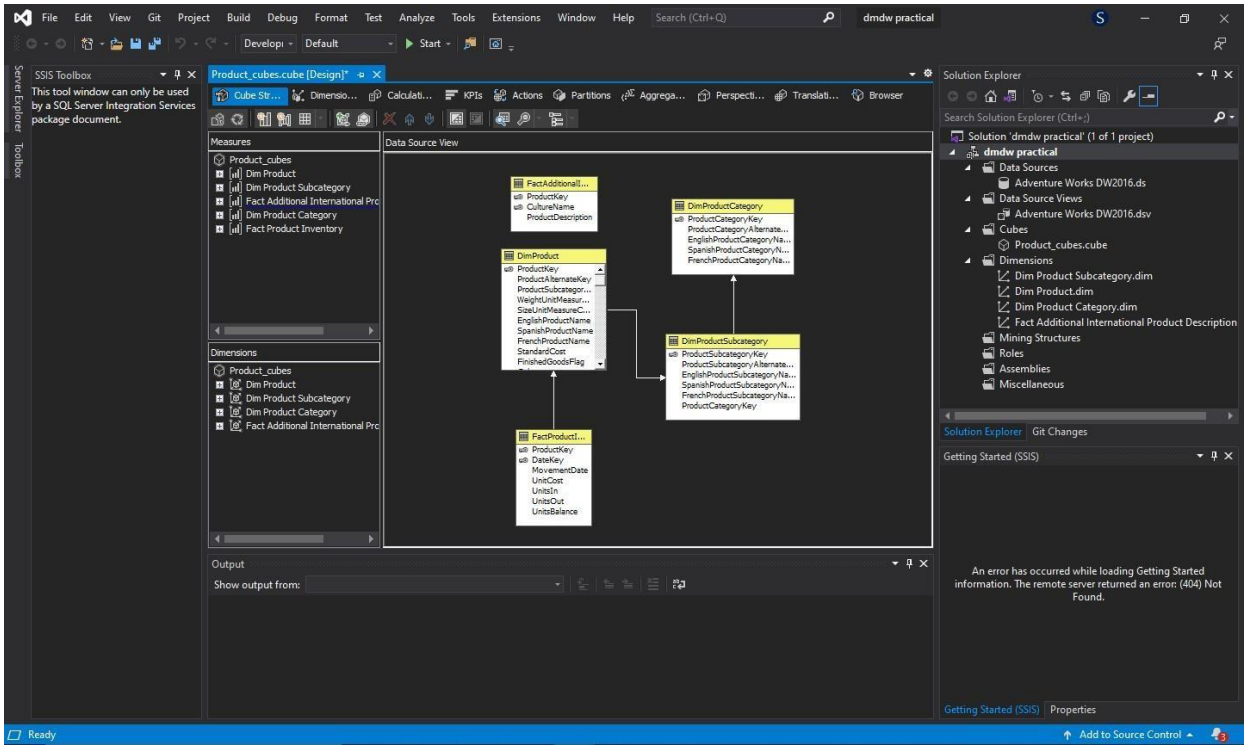
- Click on “Next”. The window will now transition to the ‘Select Measure Group Tables’ state. Select the tables from the ‘Measure Group Tables’ list.



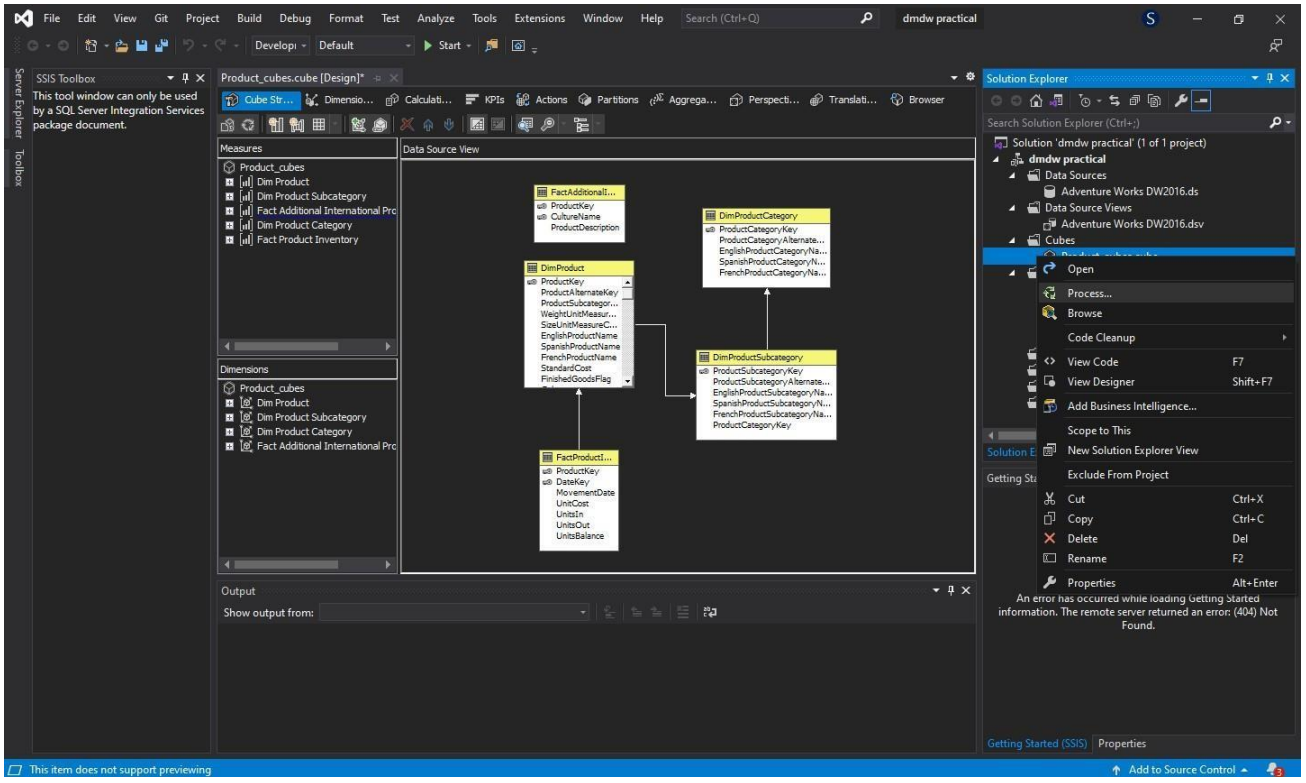
- Click on “Next”. The window will now transition to its final state named ‘Completing the Wizard’. Check the ‘Preview’ section and if everything is okay, click on “Finish”.



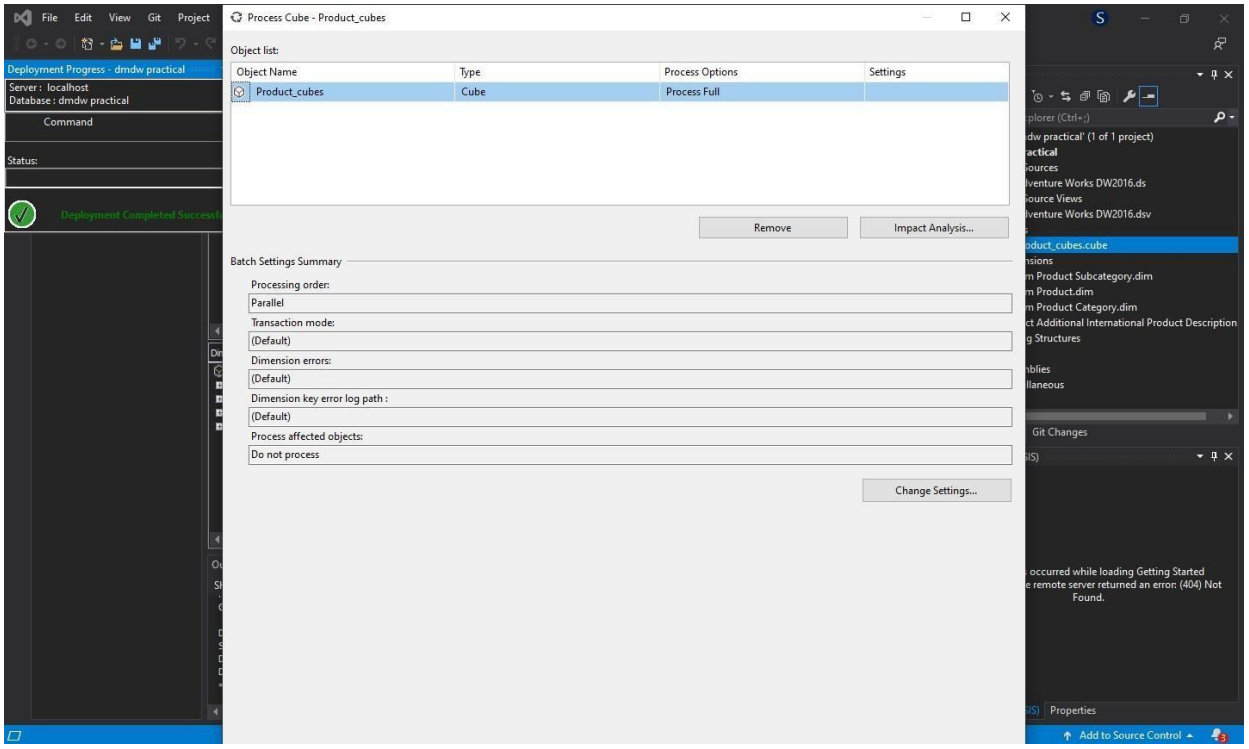
- A diagram should now appear on the screen displaying the logical star schema of the selected tables.



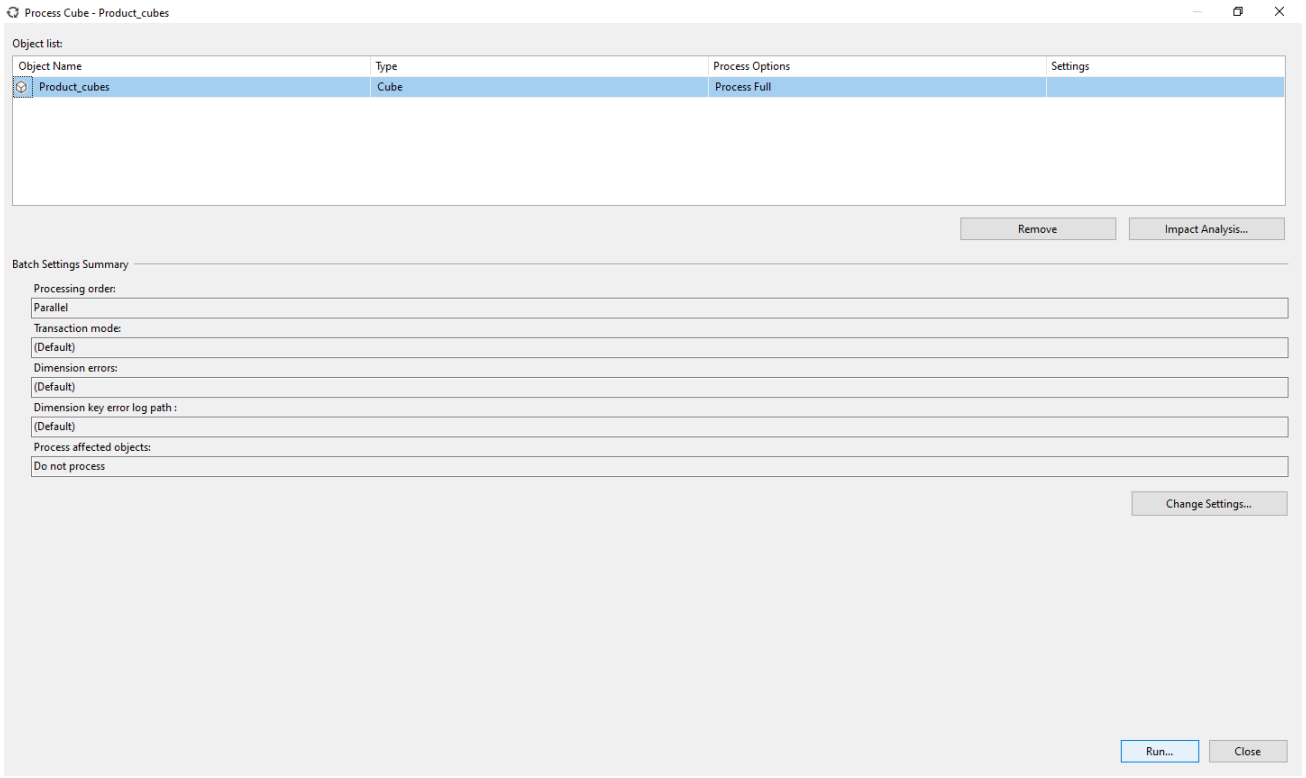
- Now right click the generated cube to reveal a popup menu.



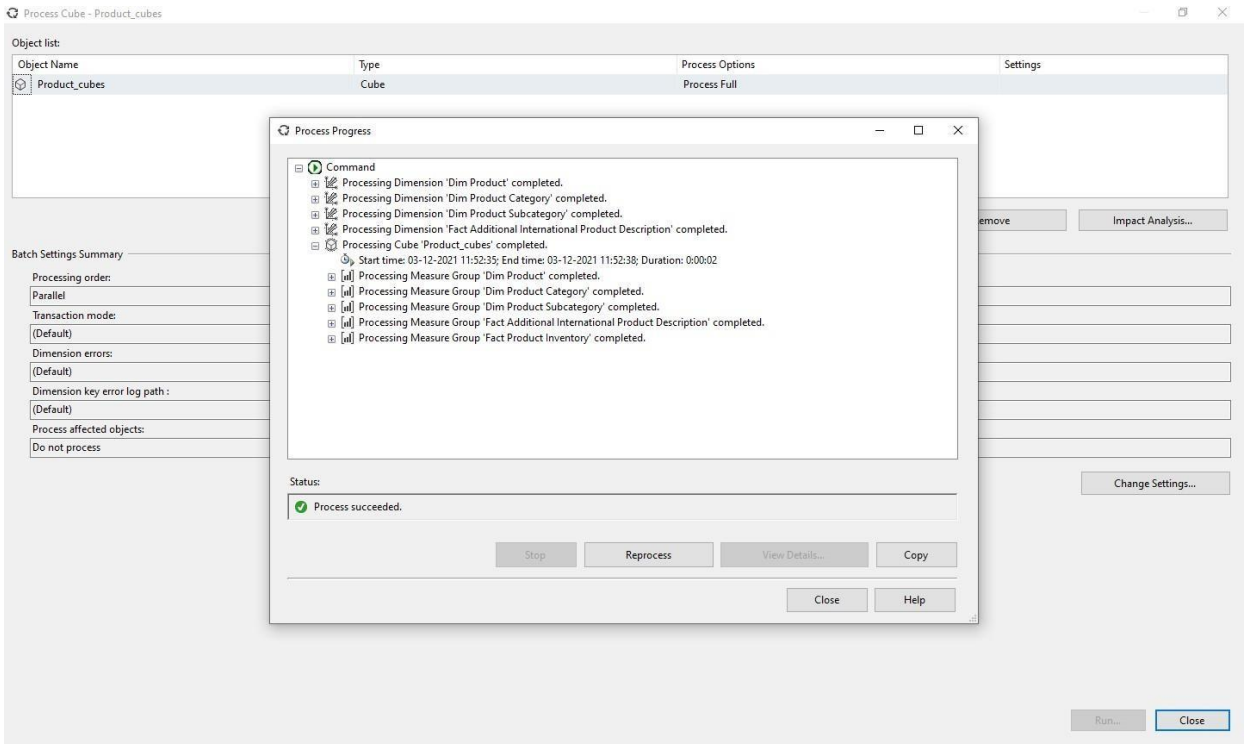
- Click on the “Process...” menu item to generate the ‘Process Cube – {Cube_Name}’ window.



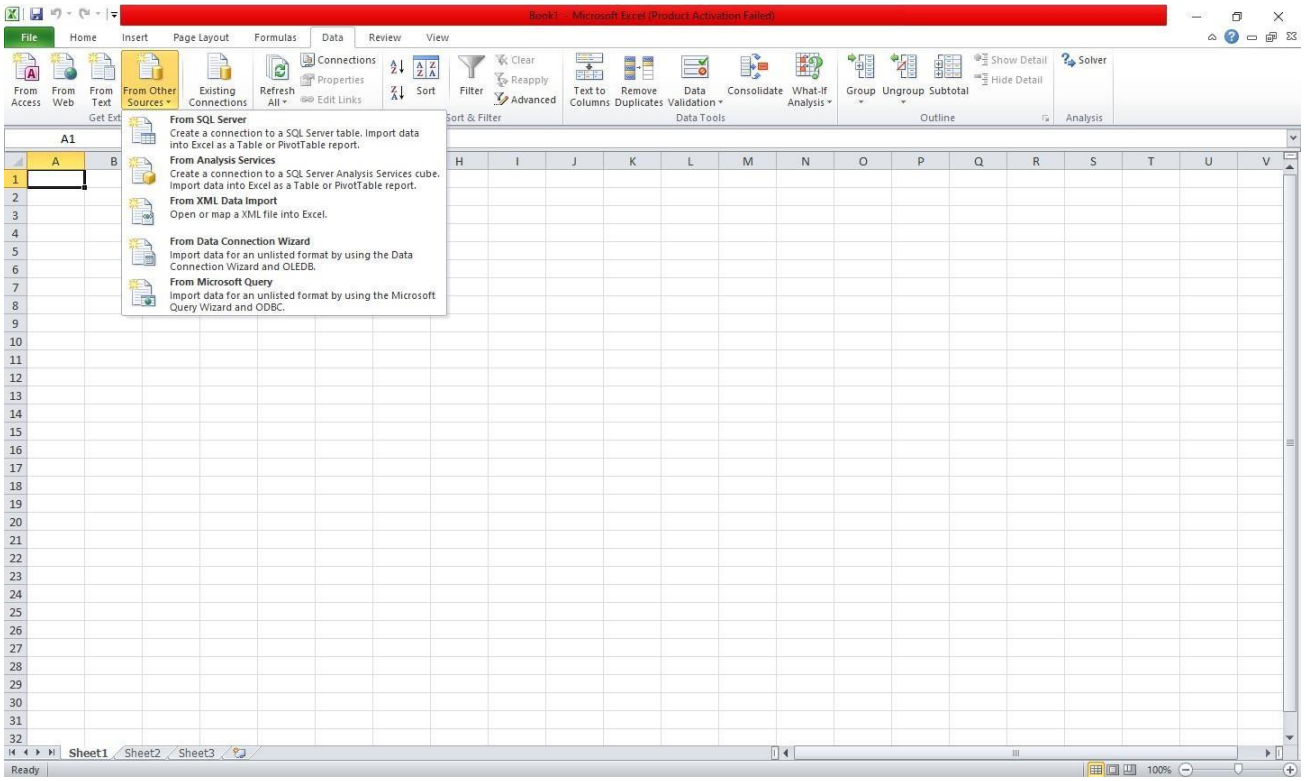
- Maximise this window to see the “Run” button.



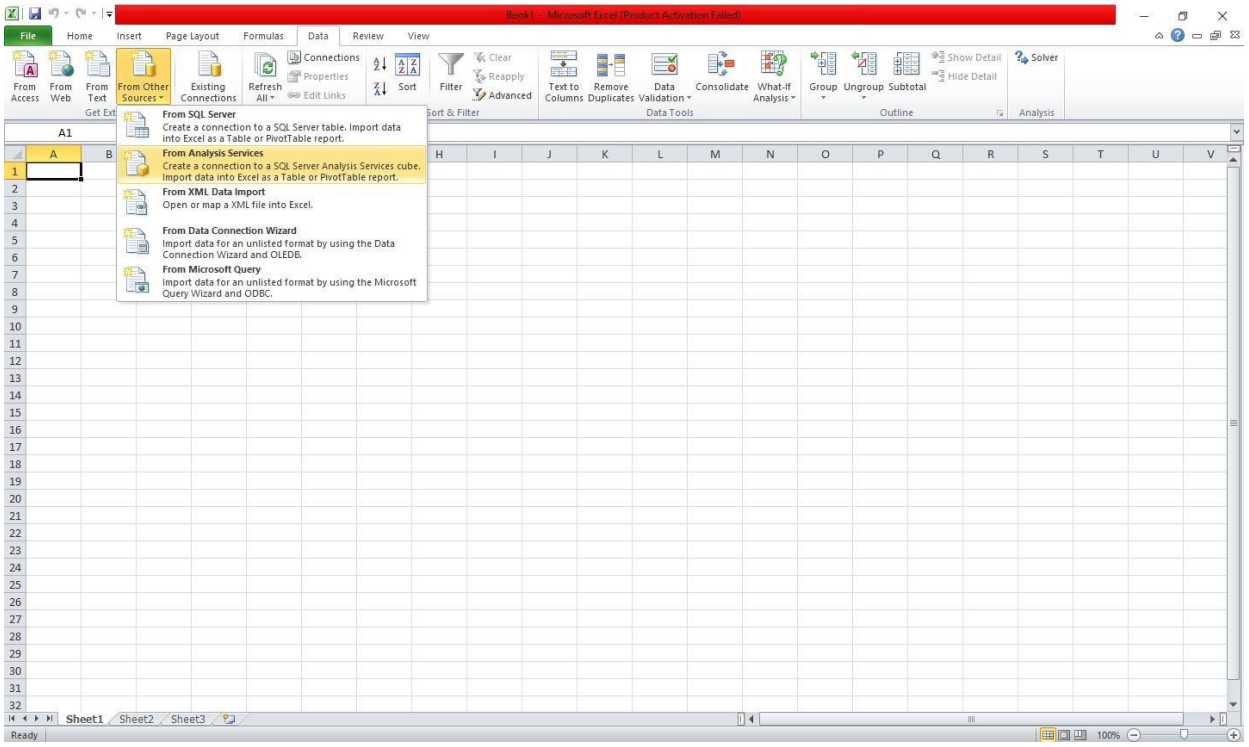
- Click the “Run” button to process the cube. If everything goes right, you should see the ‘Status’ as ‘Process succeeded’.



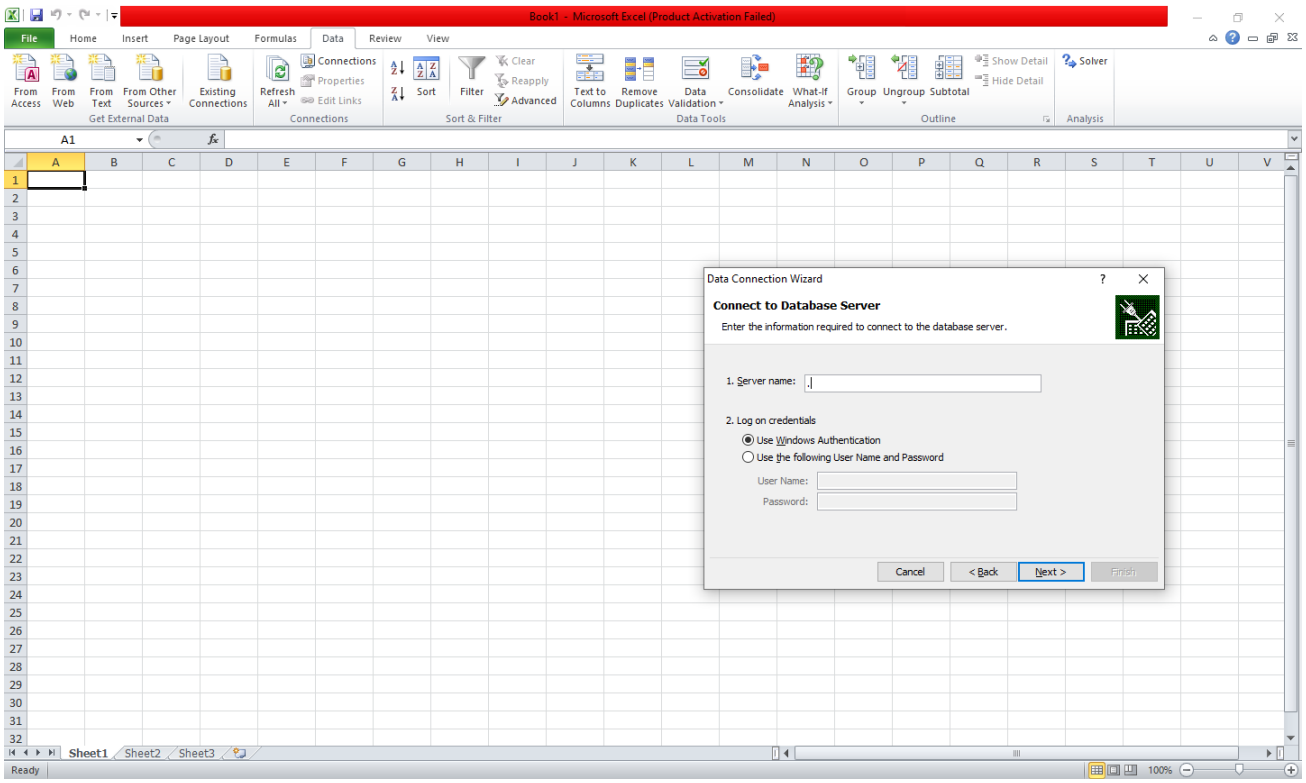
- Now, start Excel. Select the ‘Data’ section from the menu to display
  the Data ribbon. Select the “From Other Sources” button.



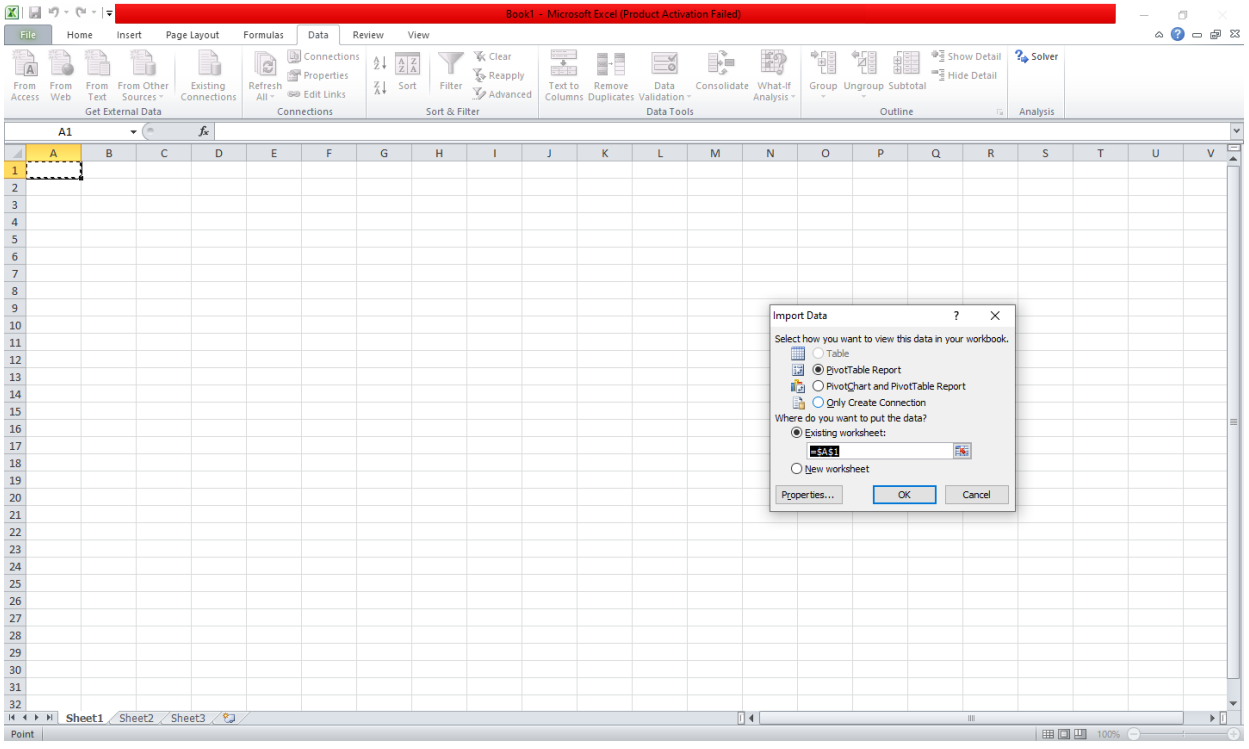
- This reveals a drop down list. Select the “From Analysis Service”
  option.



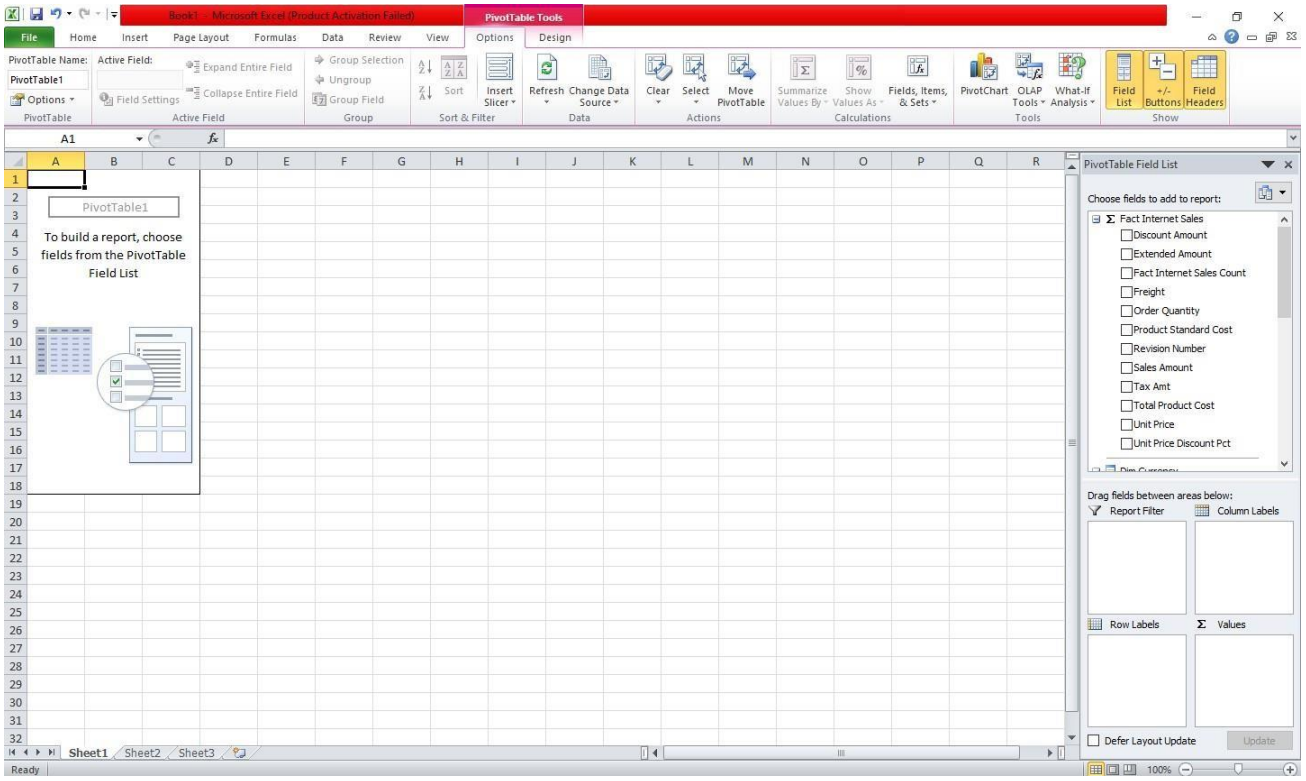
- Now, a popup window titled ‘Data Connection Wizard’ should appear. Enter ‘.’ or ‘localhost’ in the ‘Server Name’ text box.



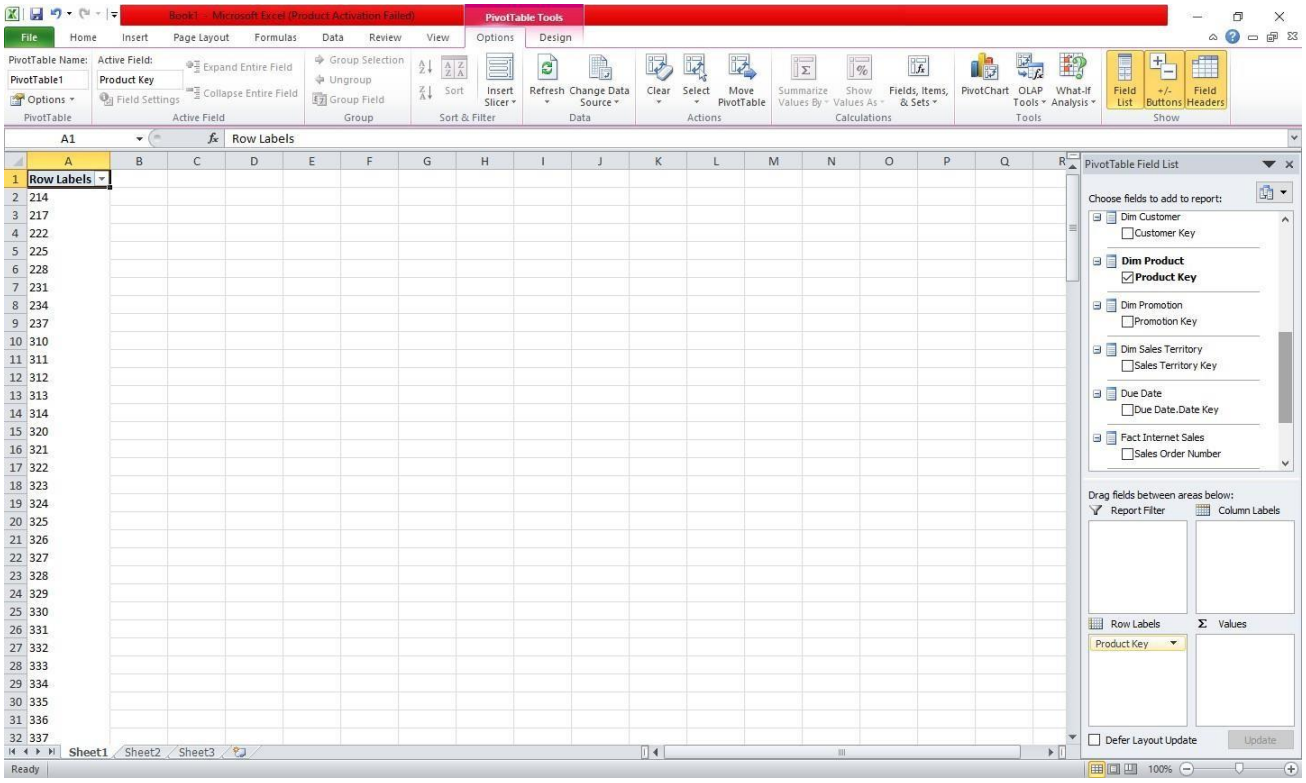
- Click on “Next”. The ‘Data Connection Wizard’ should nowclose and a new popup window called ‘Import Data’ should appear.



- Keep the default settings and click on “OK”. The current sheet should look like this:



- Choose the items you want from the right pane. The spreadsheet will be updated automatically.



Row Labels
214
217
222
225
228
231
234
237
310
311
312
313
314
320
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322
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324
325
326
327
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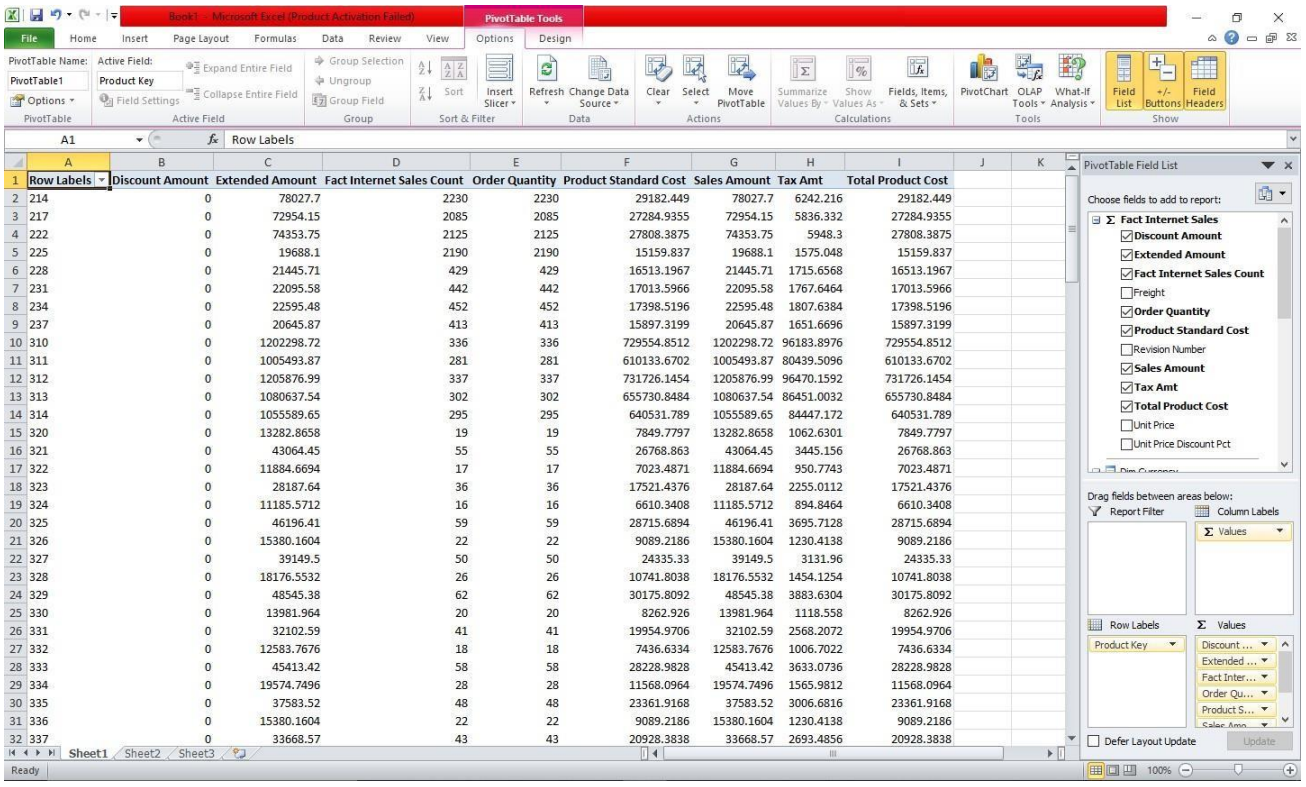

Row Labels	Discount Amount	Extended Amount	Fact Internet Sales Count	Order Quantity	Product Standard Cost	Sales Amount	Tax Amt	Total Product Cost
214	0	78027.7	2230	2230	29182.449	78027.7	6242.216	29182.449
217	0	72954.15	2085	2085	27284.9355	72954.15	5836.332	27284.9355
222	0	74353.75	2125	2125	27808.3875	74353.75	5948.3	27808.3875
225	0	19688.1	2190	2190	15159.837	19688.1	1575.048	15159.837
228	0	21445.71	429	429	16513.1967	21445.71	1715.6568	16513.1967
231	0	22095.58	442	442	17013.5966	22095.58	1767.6464	17013.5966
234	0	22595.48	452	452	17398.5196	22595.48	1807.6384	17398.5196
237	0	20645.87	413	413	15897.3199	20645.87	1651.6696	15897.3199
310	0	1202298.72	336	336	729554.8512	1202298.72	96183.8976	729554.8512
311	0	1005493.87	281	281	610133.6702	1005493.87	80439.5096	610133.6702
312	0	1205876.99	337	337	731726.1454	1205876.99	96470.1592	731726.1454
313	0	1080637.54	302	302	655730.8484	1080637.54	86451.0032	655730.8484
314	0	1055589.65	295	295	640531.789	1055589.65	84447.172	640531.789
320	0	13282.8658	19	19	7849.7797	13282.8658	1062.6301	7849.7797
321	0	43064.45	55	55	26768.863	43064.45	3445.156	26768.863
322	0	11884.6694	17	17	7023.4871	11884.6694	950.7743	7023.4871
323	0	28187.64	36	36	17521.4376	28187.64	2255.0112	17521.4376
324	0	11185.5712	16	16	6610.3408	11185.5712	894.8464	6610.3408
325	0	46196.41	59	59	28715.6894	46196.41	3695.7128	28715.6894
326	0	15380.1604	22	22	9089.2186	15380.1604	1230.4138	9089.2186
327	0	39149.5	50	50	24335.33	39149.5	3131.96	24335.33
328	0	18176.5532	26	26	10741.8038	18176.5532	1454.1254	10741.8038
329	0	48545.38	62	62	30175.8092	48545.38	3883.6304	30175.8092
330	0	13981.964	20	20	8262.926	13981.964	1118.558	8262.926
331	0	32102.59	41	41	19954.9706	32102.59	2568.2072	19954.9706
332	0	12583.7676	18	18	7436.6334	12583.7676	1006.7022	7436.6334
333	0	45413.42	58	58	28228.9828	45413.42	3633.0736	28228.9828
334	0	19574.7496	28	28	11568.0964	19574.7496	1565.9812	11568.0964
335	0	37583.52	48	48	23361.9168	37583.52	3006.6816	23361.9168
336	0	15380.1604	22	22	9089.2186	15380.1604	1230.4138	9089.2186
337	0	33668.57	43	43	20928.3838	33668.57	2693.4856	20928.3838

- Optionally, the data from the spreadsheet can also be plotted.


File
Home
Insert
Page Layout
Formulas
Data
Review
View
Design
Layout
Format
Analyze
Chart 3
Customer Key
Due Date Key
Mended Amount
Order Date Key
Order Quantity
Product Key
Product Standard Cost
Sales Amount
Ship Date Key
Tax Amt
Total Product Cost
1138000116
342286655
2935867L22
3190BS724
60398
26427624
17277793.58
2935-8677.22
332276780
2J48694.23
17277793.5-8
Sales Reaso. . . Dim Sales T Sales Territor . . . Cust Due . . . Extend. . . Order Order. . . Pro Product S. . . Sale. . . Ship . . . T. . . Total Pi . . .
8E+09
6E+09
4E+09
2E+09
2E+09
4-E+09
6E+09
-8E+09
Sales Territory Key
Values
*ota! Product Cost
*ax Amt
Ship Date Ke'/
Sa..es Amount
Procluct Standard Cost
Orr!e r Quant t/
Orr!e r Date Key
Extende d Amount
e il'.ctTable Field List
Sho'w' fields related to
(All)
Employee Key
Fact Sales Quota Coun
Sales Amount Quota
Dim Sales Reason
Sales Reason Key
Dim Sales Territory
@S'aTes Territory key
Fact Internet Sales
@Sales Order Number
Fact Reseller Sales
Sales Order Number
Drag fields bed 'een areas belo' ':
ReportFilter
Legend Fields …
Z Values
Axis Fields (Ca. . . Z Values
Sales Tei"iitor…
Sales Rea. . .
Dim Sales …
Sales Teri…
Customei …
Due Date…
Defer Layout Update
Sheet1
Sheet2
Sheet3
Ready