

**LAPORAN**  
**TUGAS 2**  
**DATA WAREHOUSE DAN BISNIS INTELLIGENCE**



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**MEDAN**  
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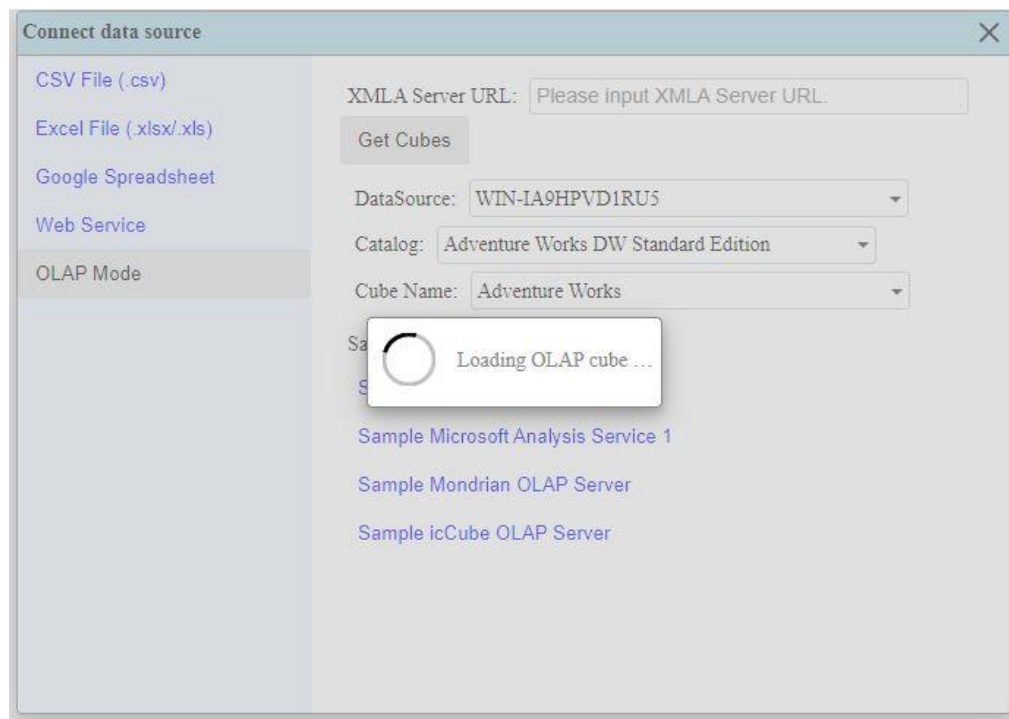
## Module 2 Assignment using Web PivotTable

Assignment 1 provides experience with WebPivotTable, an open source application for business intelligence. Using WebPivotTable, you will customize a pivot table and extend it to show more aggregated fields. WebPivotTable is a pure Javascript application that can be used in any browser without plugins.

Before starting this assignment, you should read the Web pivot table tutorial. The tutorial demonstrates the usage of WebPivotTable and the OLAP cube source used for this assignment. It also demonstrates MDX to specify a pivot table. If you have not read the tutorial yet, please refer to it prior to starting this assignment.

### 1. Load the Data Cube

- a. Select the preloaded OLAP cube Microsoft Adventure Works (same cube used in tutorial) from the Demo list to create the pivot table.
- b. Take some time exploring the data cube before beginning on the details of the assignment.



## 2. Create the Pivot Table

Create a customized pivot table that shows the following:

- Expand the “Promotions” dimension in the Fields List.
- Select “Promotions” field inside the “Promotions” dimensions in the Rows area.
- Expand the “Delivery Date” dimension in the Fields List.
- Select “Delivery Date.Month of Year” in the Columns area. If it appears in the Rows area, move it from the Rows to the Columns area.
- Expand the Measures in the Fields List.
- Select “Average Sales Amount” in the values area
- Take a screen snapshot and paste it into a document as the snapshot for part 2 of the WebPivotTable assignment. The snapshot should show All Promotions and All Periods with complete expansion on the rows and columns with Average Sales Amount in the cells.
- Keep the sheet open for the next part.

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All Promotions	\$3,590.42	\$4,484.31	\$5,727.83	\$4,197.65	\$3,105.24	\$4,441.60	\$3,575.58	\$2,412.12	\$3,4
No Discount	\$3,407.78	\$4,007.91	\$5,289.69	\$3,735.02	\$2,939.88	\$4,319.94	\$3,444.39	\$2,356.91	\$3.3
Reseller	\$2,474.75	\$4,416.00	\$3,886.08	\$4,406.66	\$2,082.00	\$2,110.07	\$1,953.38	\$1,250.55	\$1.5
Discontinued Product	\$3,218.92								
Mountain-100 Clea...	\$10,455.52								
Mountain-500 Silve...	\$417.73								
Excess Inventory	\$819.44	\$934.91	\$751.04						
Road-450 Overstock	\$819.44	\$934.91	\$751.04						
New Product	\$7,184.00	\$8,419.12	\$8,010.33	\$6,375.83	\$1,836.83				
Touring-3000 Prom...	\$3,785.88	\$4,429.97	\$3,838.18	\$3,557.97	\$742.35				
Touring-1000 Prom...	\$5,371.27	\$5,531.04	\$6,025.90	\$4,926.44	\$2,384.07				
Seasonal Discount	\$250.75	\$250.75							
Sport Helmet Disco...	\$206.91	\$206.91							
Sport Helmet Disco...	\$303.36	\$303.36							
Volume Discount	\$2,166.60	\$4,042.45	\$3,191.03	\$3,511.68	\$2,085.39	\$2,110.07			
Volume Discount 1...	\$1,851.21	\$3,138.55	\$2,844.99	\$2,853.76	\$1,516.82	\$1,775.85	\$1,795.21	\$1,215.43	\$1.5
Volume Discount 1...	\$2,990.33	\$4,936.52	\$2,529.87	\$3,377.11	\$4,783.66	\$3,558.51	\$2,285.79	\$1,487.06	\$2.3
Volume Discount 2...	\$1,748.57	\$690.36	\$982.53	\$2,573.99	\$4,758.23	\$1,251.09	\$691.28	\$478.67	
Volume Discount 4...	\$868.49								

Rows: Volume Discount 11 to 14  
Columns: Average Sales Amount  
Values: \$1,215.43  
DoubleClick to drill through.

Fields List Grid Options

Delivery Date Month of Year

Filters

Columns

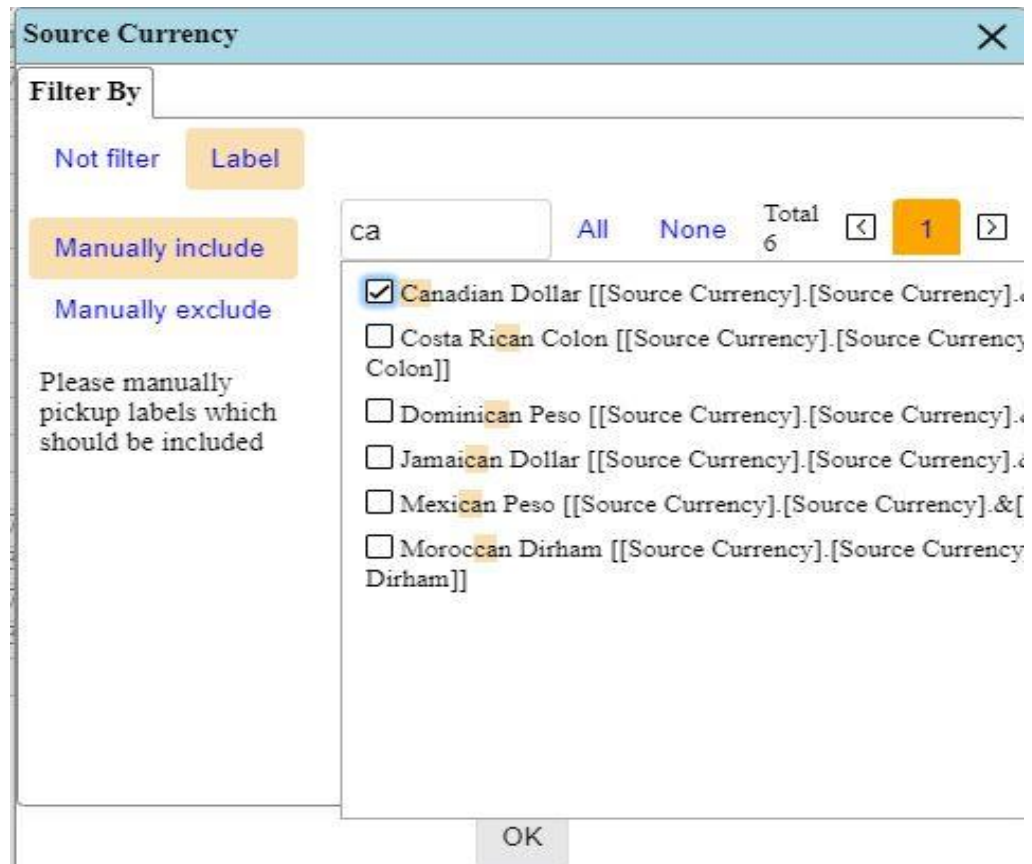
Rows

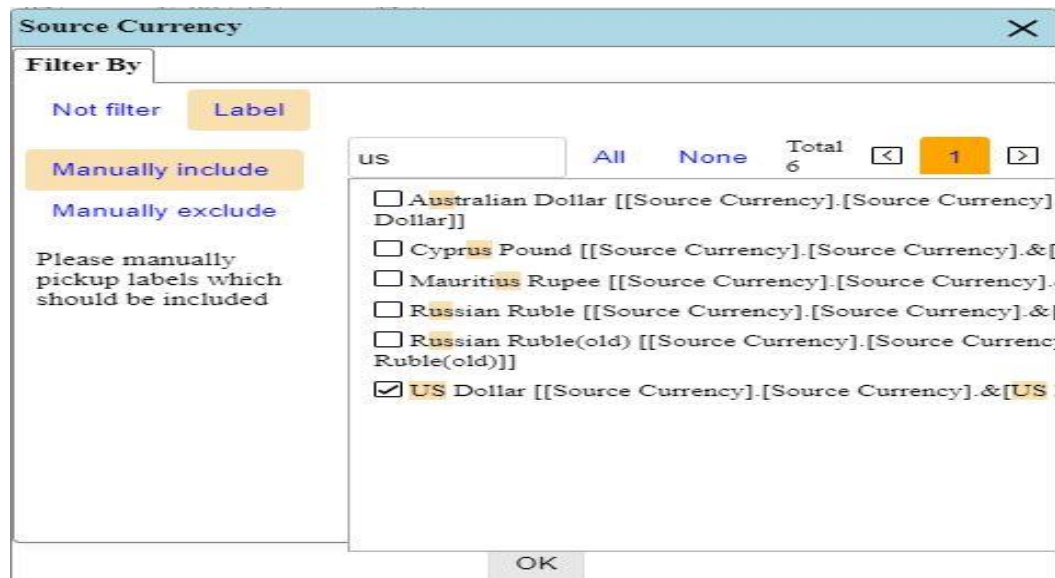
Values

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### 3. *Extend the Pivot Table*

- Add “Source Currency” level (Do NOT include “ALL” level) from the Source Currency dimension to the Filters area.
- Create a filter such that the pivot table displays value only for “Canadian Dollar” and “US Dollar”.
- Take a screen snapshot and paste it into a document as the snapshot for part 3 of WebPivotTable assignment. The snapshot should show a complete expansion of All Periods and All Promotions with January Average Sales Amount in the cells.
- Keep the sheet open for the next part.





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	All Products									
<input type="checkbox"/> All Promotions	\$4,331.38	\$5,485.85	\$7,048.03	\$4,974.65	\$3,788.71	\$5,520.58	\$4,192.04	\$2,828.23	\$4.2	
<input type="checkbox"/> No Discount	\$4,111.90	\$4,904.10	\$6,595.94	\$4,456.80	\$3,576.11	\$5,389.99	\$4,024.12	\$2,760.06	\$4.1	
<input type="checkbox"/> Reseller	\$2,667.13	\$4,999.50	\$3,627.81	\$4,741.38	\$2,193.95	\$2,088.10	\$2,142.87	\$1,358.94	\$1.6	
<input type="checkbox"/> Discontinued Product	\$3,389.83									
Mountain-100 Clea...	\$10,455.32									
Mountain-500 Silve...	\$421.13									
<input type="checkbox"/> Excess Inventory	\$796.18	\$822.14	\$779.86							
Road-650 Overstock	\$796.18	\$822.14	\$779.86							
<input type="checkbox"/> New Product	\$6,969.55	\$10,428.79	\$6,808.83	\$6,253.15	\$2,384.07					
Touring-3000 Prom...	\$3,761.72	\$5,589.74	\$3,383.92	\$3,477.77						
Touring-1000 Prom...	\$5,277.55	\$6,873.46	\$5,259.63	\$4,896.13	\$2,384.07					
<input type="checkbox"/> Seasonal Discount	\$224.90	\$224.90								
Sport Helmet Disco...	\$199.05	\$199.05								
Sport Helmet Disco...	\$261.54	\$261.54								
<input type="checkbox"/> Volume Discount	\$2,379.28	\$4,904.20	\$3,251.99	\$3,943.75	\$2,191.59	\$2,088.10	\$2,142.87	\$1,358.94	\$1.6	
Volume Discount 1...	\$2,002.66	\$3,743.68	\$2,934.20	\$3,124.29	\$1,571.08	\$1,829.61	\$2,001.48	\$1,309.59	\$1.5	
Volume Discount 1...	\$3,017.97	\$5,586.41	\$2,285.43	\$3,438.79	\$4,841.48	\$2,861.50	\$2,086.70	\$1,665.11	\$2.7	
Volume Discount 2...	\$1,793.25	\$667.80	\$835.15	\$2,573.99	\$4,758.23	\$1,482.95	\$633.95	\$478.67		
Volume Discount 4...	\$868.49									

Fields List | Grid Options

Fields List:

- Measures
  - Source Currency
  - Source Currency
  - Source Currency
  - Source Currency Code

Drag fields between areas

Filters:

- Source Currency
- Source Currency

Columns:

- Delivery
- Date
- Month of Year
- Year
- Month of Year

Rows:

- Promotions
- All
- Category
- Type

Values:

- Average Sales
- Amount

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#### 4. Extend the Pivot Table with Filter Changes and Rollups

- Modify the filter to show results only for the source Currency “EURO”.
- Collapse all reseller promotions except for Excess Inventory. Show only the subcategories within the Excess Inventory item.
- Remove the pivot chart so that the sheet only displays the pivot table.
- Take a screen snapshot and paste it into a document as the snapshot for part 4 of the WebPivotTable assignment. The snapshot should show the Average Sales

Amount for All Periods along with a subset of the expansion of All Promotions for Excess Inventory promotions.

Source Currency

Filter By

Not filter

Label

Manually include

Manually exclude

Please manually pickup labels which should be included

eu

AllNone

Total3

<1>

20/page

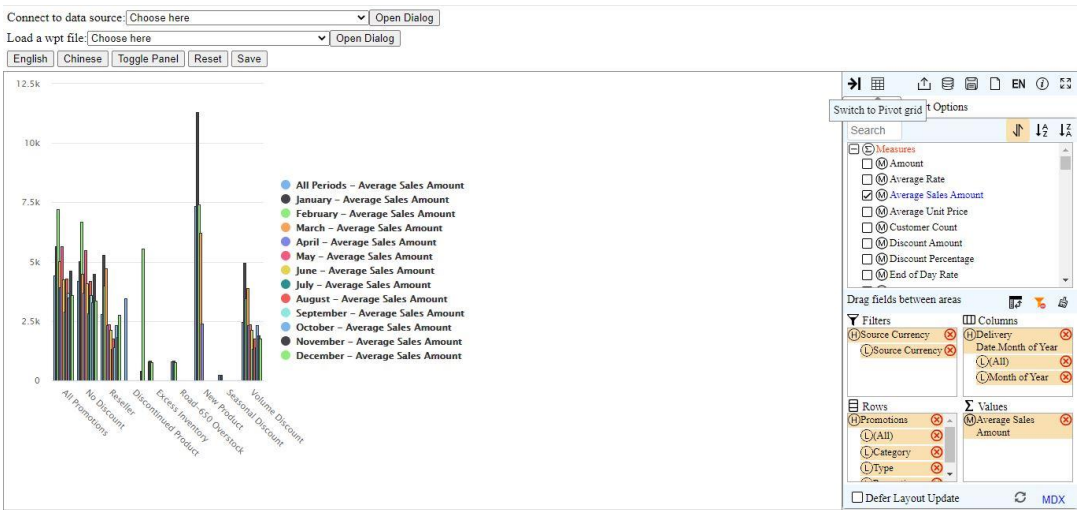
1

☐Deutsche Mark [[Source Currency].[Source Currency].&[Deutsche Mark]]

☒EURO [[Source Currency].[Source Currency].&[EURO]]

☐Leu [[Source Currency].[Source Currency].&[Leu]]

OK



Connect to data source: Choose here
Open Dialog

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Save

[Promotion].[Promotions]	All Periods	January	February	March	April
	Average Sales Amount	Average Sales Amount	Average Sales Amount	Average Sales Amount	Average Sales Amount
All Promotions	\$4,417.15	\$5,644.84	\$7,211.77	\$5,012.13	\$3,907.44
No Discount	\$4,183.76	\$5,007.31	\$6,692.92	\$4,481.98	\$3,676.16
Reseller	\$2,778.68	\$5,389.97	\$3,980.87	\$4,735.02	\$2,328.49
Discontinued Product	\$3,465.52				
Excess Inventory	\$805.13	\$843.59	\$779.86		
Road-650 Overstock	\$805.13	\$843.59	\$779.86		
New Product	\$7,344.01	\$11,315.77	\$7,408.28	\$6,219.83	\$2,384.07
Seasonal Discount	\$239.11	\$239.11			
Volume Discount	\$2,448.70	\$4,940.90	\$3,446.42	\$3,885.84	\$2,327.82

Fields List
Grid Options

Search

Measures

- Amount
- Average Rate
- Average Sales Amount
- Average Unit Price
- Customer Count
- Discount Amount
- Discount Percentage
- End of Day Rate

Drag fields between areas

Filters

- Source Currency
- Source Currency
- Delivery
- Date Month of Year
- Month of Year

Columns

Rows

- Promotions
- All
- Category
- Type

Values

- Average Sales Amount

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Connect to data source: Choose here
Open Dialog

Load a wpt file: Choose here
Open Dialog

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Chinese
Toggle Panel
Reset
Save

To build a report, choose fields from Fields List.

Fields List

Search

Sales Reason
Sales Summary Order Details
Sales Territory
Scenario
Ship Date
Source Currency

- Source Currency
- All
- Source Currency
- Source Currency Code

Drag fields between areas

Filters

Columns

Rows

Values

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