

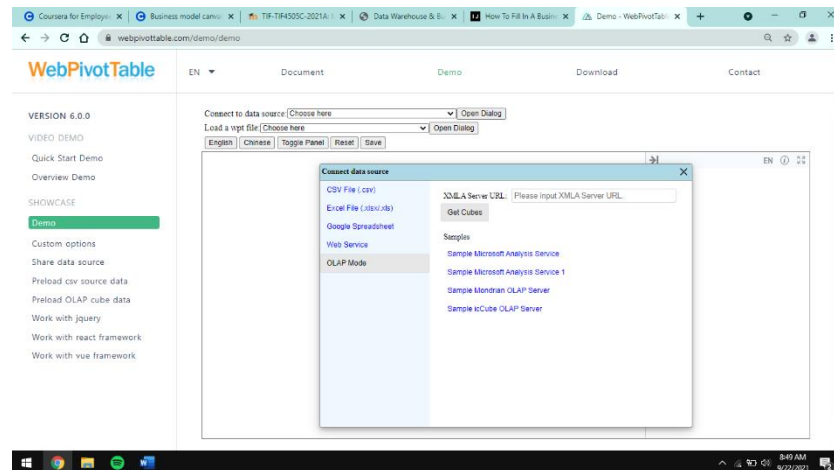
## Module 2 Assignment using Web PivotTable

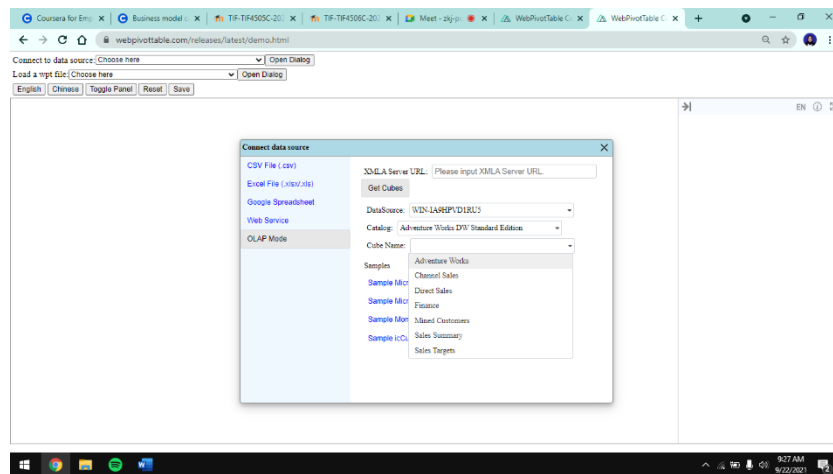
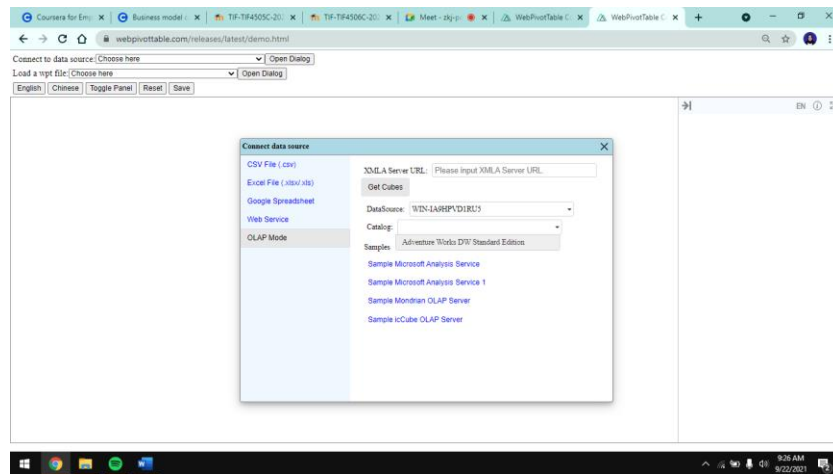
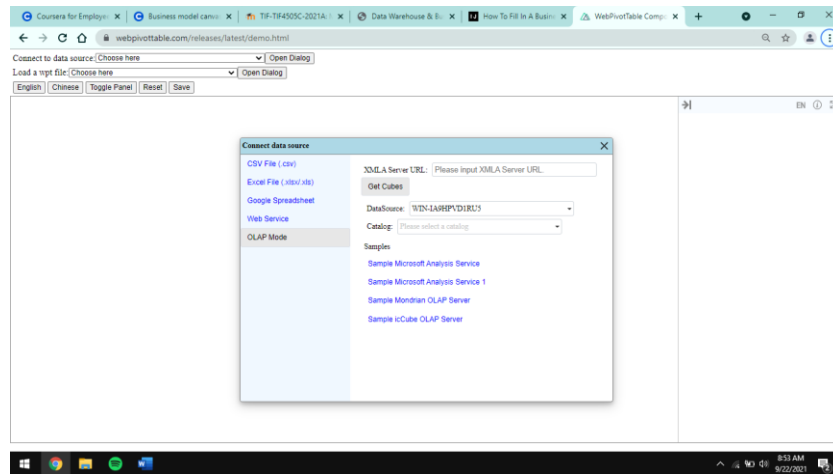
Assignment 1 provides experience with WebPivotTable, an open source application for business intelligence. Using WebPivotTable, you will customize a pivot table and extend it to show more aggregated fields. WebPivotTable is a pure Javascript application that can be used in any browser without plugins.

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

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

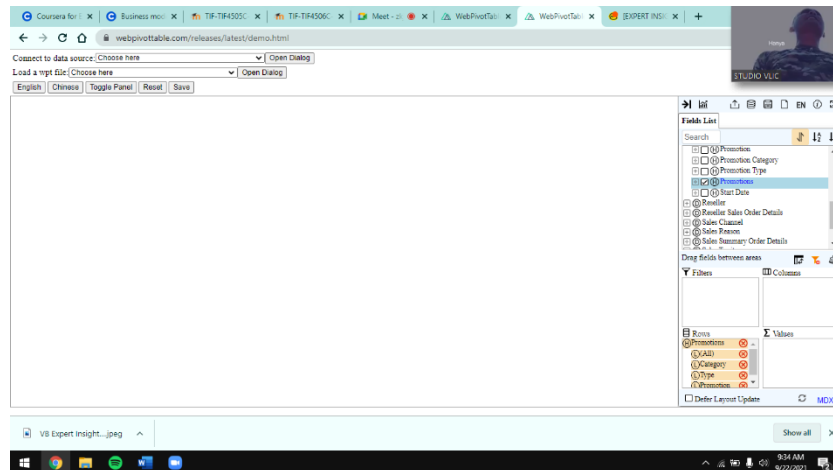




## 2. Create the Pivot Table

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.



- c. Expand the “Delivery Date” dimension in the Fields List.
- d. 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.

[illegible]

- Expand the Measures in the Fields List.
- Select “Average Sales Amount” in the values area

Connect to data source: Choose here

Load a wpt file: Choose here

English | Chinese | Toggle Panel | Reset | Save

	January	February	March	April	May
(Promotions) (Promotions)	\$196,300.76	\$4,484.31	\$276,940.74	\$5,727.83	\$251,754.42
All Promotions	\$170,135.95	\$4,007.91	\$248,086.60	\$5,289.49	\$219,806.16
No Discount	\$26,164.80	\$4,416.00	\$28,854.14	\$5,886.08	\$31,948.26
Reseller					
Discontinued Product					
Mountain-100 Cha...					
Mountain-500 Silv...					
Excess Inventory	\$554.94	\$924.91	\$694.71	\$751.04	
Road-450 Overstock	\$554.94	\$924.91	\$694.71	\$751.04	
New Product	\$5,893.39	\$8,419.12	\$6,412.14	\$8,010.33	\$11,317.11
Touring-3000 Prom...	\$2,436.48	\$4,429.97	\$3,838.18	\$5,159.05	\$3,557.97
Touring-1000 Prom...	\$3,456.90	\$5,331.04	\$5,573.96	\$6,025.90	\$6,158.05
Seasonal Discount	\$413.75	\$250.75			
Sport Helmet Disc...	\$186.32	\$386.91			
Sport Helmet Disc...	\$227.52	\$303.36			
Volume Discount	\$19,302.73	\$4,042.45	\$18,747.30	\$5,191.03	\$20,631.16
Volume Discount 1...	\$14,213.47	\$3,158.55	\$15,149.59	\$2,844.99	\$14,982.23
Volume Discount 2...	\$4,813.11	\$4,936.52	\$3,352.07	\$2,529.87	\$4,812.38
Volume Discount 4...	\$276.14	\$690.36	\$245.63	\$982.35	\$836.55

Fields List: Grid Options

Search

Row: Mountain-100 Clearance Sale  
Column: Freight Cost  
Values: null  
DoubleClick to drill through.

Drag fields between areas

Filters

Columns

Date: Month of Year  
Date: Month of Year  
Date: Month of Year

Rows

Promotions  
All  
Category  
Type

Values

Average Sales Amount  
Freight Cost

Defer Layout Update MDX

g. 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.

h. Keep the sheet open for the next part.

### 3. Extend the Pivot Table

a. Add “Source Currency” level (Do NOT include “ALL” level) from the Source Currency dimension to the Filters area.

Connect to data source: Choose here

Load a wpt file: Choose here

English | Chinese | Toggle Panel | Reset | Save

	January	February	March	April	May	June	July	August	September
(Promotions) (Promotions)	\$4,484.31	\$5,727.83	\$4,197.65	\$3,105.24	\$4,441.60	\$3,575.58	\$2,412.12	\$3,415.14	\$3,105.24
All Promotions	\$4,007.91	\$5,289.49	\$3,735.02	\$2,939.88	\$4,319.94	\$3,444.39	\$2,358.91	\$3,354.99	\$3,105.24
No Discount	\$4,416.00	\$5,886.08	\$4,406.66	\$2,082.90	\$2,110.07	\$1,953.38	\$1,256.55	\$1,590.88	\$1,590.88
Reseller									
Discontinued Product									
Mountain-100 Cha...									
Mountain-500 Silv...									
Excess Inventory	\$694.91	\$751.04							
Road-450 Overstock	\$694.91	\$751.04							
New Product	\$8,419.12	\$8,010.33	\$6,375.83	\$1,836.83					
Touring-3000 Prom...	\$4,429.97	\$3,838.18	\$3,557.97	\$742.35					
Touring-1000 Prom...	\$5,331.04	\$6,025.90	\$4,926.44	\$2,384.07					
Seasonal Discount	\$250.75								
Sport Helmet Disc...	\$306.91								
Sport Helmet Disc...	\$303.36								
Volume Discount	\$4,042.45	\$5,191.03	\$3,511.48	\$2,082.30	\$2,110.07	\$1,953.38	\$1,256.55	\$1,590.88	\$1,590.88
Volume Discount 1...	\$3,158.55	\$2,844.99	\$2,853.76	\$1,775.85	\$1,795.21	\$1,215.43	\$1,524.28	\$1,524.28	\$1,524.28
Volume Discount 2...	\$4,936.52	\$2,529.87	\$3,377.11	\$4,783.66	\$3,558.51	\$2,285.79	\$1,487.06	\$2,367.85	\$1,836.55
Volume Discount 4...	\$690.36	\$982.35	\$2,573.99	\$4,758.23	\$1,251.09	\$691.28	\$478.87		

Fields List: Grid Options

Search

Row: Mountain-100 Clearance Sale  
Column: Freight Cost  
Values: null  
DoubleClick to drill through.

Drag fields between areas

Filters

Columns

Date: Month of Year  
Date: Month of Year  
Date: Month of Year

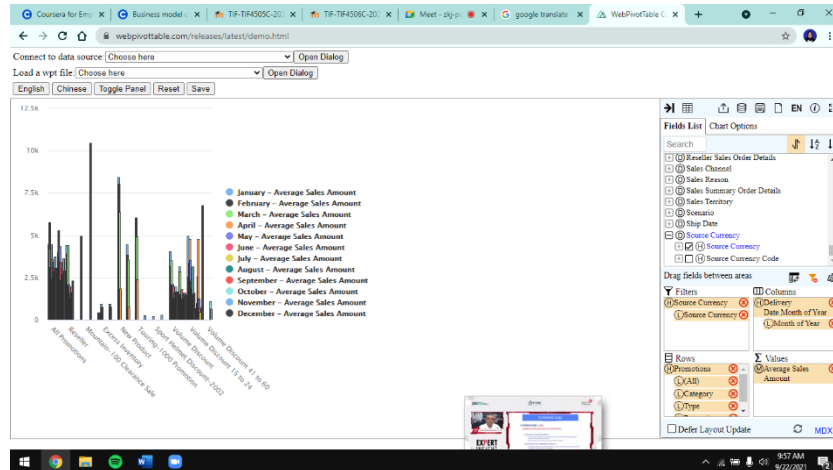
Rows

Promotions  
All  
Category  
Type

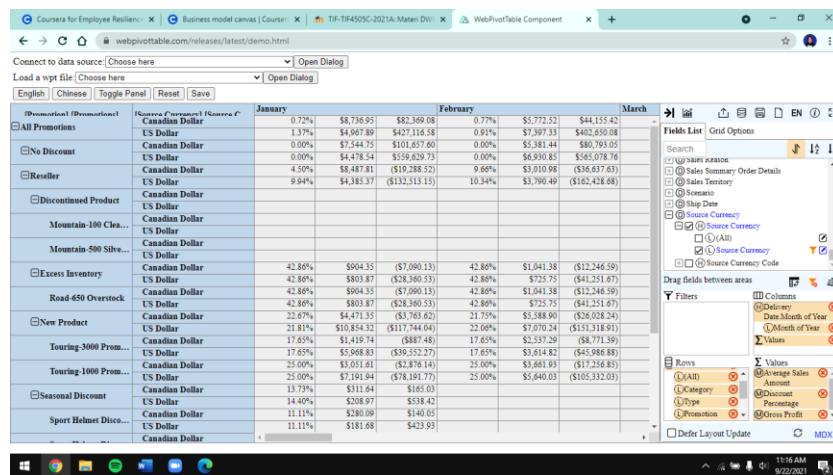
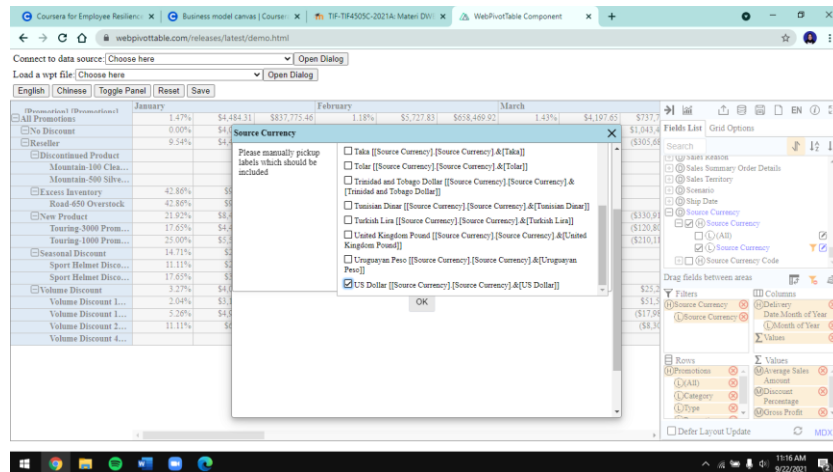
Values

Average Sales Amount  
Freight Cost

Defer Layout Update MDX



- b. Create a filter such that the pivot table displays value only for “Canadian Dollar” and “US Dollar”.



- c. 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.
- d. Keep the sheet open for the next part.

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

- a. Modify the filter to show results only for the source Currency “EURO”.

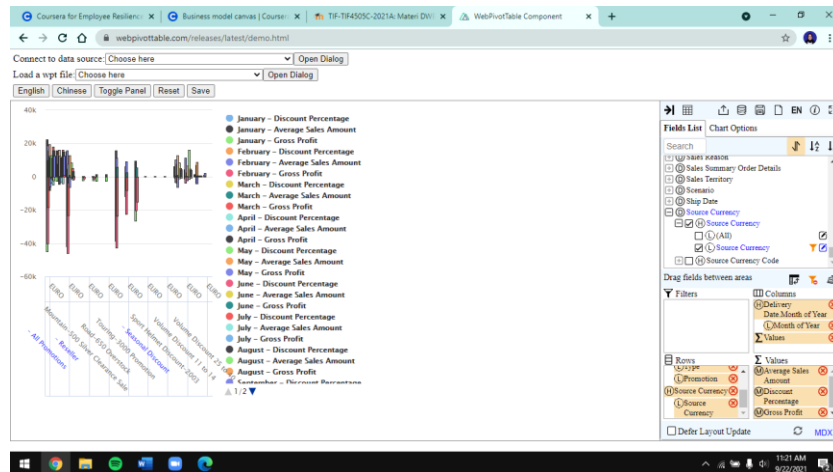
The screenshot shows the WebPivotTable interface with the following data:

Promotions (Promotions)	Source Currency (Currency)	January	February	March
All Promotions	EURO	4.89%	\$22,367.74 (\$44,755.07)	3.68%
No Discount	EURO	0.00%	\$15,553.47 (\$2,758.48)	0.00%
Reseller	EURO	16.07%	\$14,993.38 (\$41,897.50)	12.00%
Discontinued Product	EURO			
Mountain-500 Silve...	EURO			
Excess Inventory	EURO	42.86%	\$1,315.42 (\$2,578.23)	
Road-650 Overstock	EURO	42.86%	\$1,315.42 (\$2,578.23)	
New Product	EURO	22.04%	\$15,750.65 (\$38,466.54)	20.38%
Touring-3000 Prom...	EURO	17.65%	\$6,341.32 (\$11,892.23)	17.65%
Touring-1000 Prom...	EURO	25.00%	\$9,408.13 (\$26,604.31)	25.00%
Seasonal Discount	EURO	18.39%	\$443.07 \$80.84	
Sport Helmet Disc...	EURO	11.11%	\$348.22 \$20.02	
Sport Helmet Disc...	EURO	17.65%	\$477.35 \$31.82	
Volume Discount	EURO	3.14%	\$6,152.31 (\$983.56)	2.67%
Volume Discount 1...	EURO	2.04%	\$4,514.37 (\$1,129.99)	2.04%
Volume Discount 1...	EURO	5.26%	\$1,385.17 (\$27.51)	5.26%
Volume Discount 2...	EURO	11.11%	\$1,028.70 \$173.74	11.11%
Volume Discount 2...	EURO			\$2,308.95 \$389.96

- b. Collapse all reseller promotions except for Excess Inventory. Show only the subcategories within the Excess Inventory item.

The screenshot shows the 'Filter By' dialog box with the following data:

Type	January	February	March
All Promotions	1.47%	\$4,484.31	\$837,775.46
No Discount	0.00%	\$4,484.31	\$837,775.46
Reseller	9.54%	\$4,484.31	\$837,775.46
Discontinued Product			
Mountain-100 Che...			
Excess Inventory	42.86%	\$1,315.42	\$2,578.23
Road-650 Overstock	42.86%	\$1,315.42	\$2,578.23
New Product	21.92%	\$8,408.13	\$26,604.31
Touring-3000 Prom...	17.65%	\$6,341.32	\$11,892.23
Touring-1000 Prom...	25.00%	\$9,408.13	\$26,604.31
Seasonal Discount	14.75%	\$443.07	\$80.84
Sport Helmet Disc...	11.11%	\$348.22	\$20.02
Sport Helmet Disc...	17.65%	\$477.35	\$31.82
Volume Discount	3.27%	\$6,152.31	\$983.56
Volume Discount 1...	2.04%	\$4,514.37	\$1,129.99
Volume Discount 1...	5.26%	\$1,385.17	\$27.51
Volume Discount 2...	11.11%	\$1,028.70	\$173.74
Volume Discount 2...			\$2,308.95



c. Remove the pivot chart so that the sheet only displays the pivot table.

	January	February	March
All Promotions	4.89%	\$22,367.74 (\$44,755.07)	3.68%
No Discount	0.00%	\$15,553.47 (\$2,758.48)	0.00%
Reorder	16.07%	\$14,993.38 (\$41,997.50)	12.00%
Discounted Product			
Mountain-500 Silver			
Excess Inventory	42.86%	\$1,315.42 (\$2,578.23)	
Road-650 Overstock	22.04%	\$15,750.05 (\$38,466.54)	20.38%
New Product	17.65%	\$6,341.52 (\$11,892.23)	17.65%
Touring-3000 Prom...	25.00%	\$9,408.13 (\$26,604.31)	25.00%
Seasonal Discount 1...	18.37%	\$442.07 \$50.84	
Sport Helmet Disc...	11.11%	\$348.22 \$20.02	
Volume Discount 1...	17.65%	\$477.35 \$31.82	
Volume Discount 2...	3.14%	\$6,152.31 (\$983.56)	2.67%
Volume Discount 1...	2.04%	\$4,514.27 (\$1,129.99)	2.04%
Volume Discount 2...	5.26%	\$1,380.97 (\$27.51)	5.26%
Volume Discount 2...	11.11%	\$1,028.70 \$173.74	11.11%

d. 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.