

## TUGAS II

### Data Warehouse dan Business Intelligence

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#### 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.

**Connect data source** [X]

CSV File (.csv)  
Excel File (.xlsx/.xls)  
Google Spreadsheet  
Web Service  
**OLAP Mode**

XMLA Server URL:

DataSource:

Catalog:

Cube Name:

Samples

- Sample Micro
- Sample Micro
- Sample Mon
- Sample icCul

Adventure Works  
Channel Sales  
Direct Sales  
Finance  
Mined Customers  
Sales Summary  
Sales Targets

## 2. Create the Pivot Table

Create a customized pivot table that shows the following :

- Expands the “Promotions” dimension in the Fields List.
- Select “Promotions” field inside the “Promotions” dimensions in the Rows area.
- Expands 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.
- Expands 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 Web Pivot Table 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.

<input checked="" type="checkbox"/> All Promotions	<input checked="" type="checkbox"/> All Periods	\$3,590.42	\$4,484.31	\$5,727.83	\$4,197.65	\$3,105.24	\$4,441.60	\$3,575.58	\$2,412.12	\$3,415.14	\$3,110.92	\$2,836.69	\$3,707.16	\$3,066.49
<input checked="" type="checkbox"/> 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	\$3,354.99	\$3,052.51	\$2,702.87	\$3,597.40	\$2,893.60
<input checked="" type="checkbox"/> 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	\$1,590.88	\$1,311.17	\$1,965.25	\$1,617.58	\$2,313.47
<input checked="" type="checkbox"/> Discontinued Product		\$3,218.92											\$417.07	\$4,963.47
Mountain-100 Clea...		\$10,455.32												\$10,455.32
Mountain-500 Silve...		\$417.73											\$417.07	\$418.48
<input checked="" type="checkbox"/> Excess Inventory		\$819.44	\$924.91	\$751.04										
Road-650 Overstock		\$819.44	\$924.91	\$751.04										
<input checked="" type="checkbox"/> 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								
<input checked="" type="checkbox"/> Seasonal Discount		\$250.75	\$250.75											
Sport Helmet Disco...		\$206.91	\$206.91											
Sport Helmet Disco...		\$303.36	\$303.36											
<input checked="" type="checkbox"/> Volume Discount		\$2,166.60	\$4,042.45	\$3,191.03	\$3,511.68	\$2,085.39	\$2,110.07	\$1,953.38	\$1,250.55	\$1,590.88	\$1,311.17	\$1,965.25	\$1,665.78	\$1,652.52
Volume Discount 1...		\$1,851.21	\$3,158.55	\$2,844.99	\$2,853.76	\$1,516.82	\$1,775.85	\$1,795.21	\$1,215.43	\$1,524.28	\$1,251.88	\$1,573.24	\$1,584.37	\$1,465.60
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	\$2,367.85	\$1,836.43	\$3,147.90	\$1,513.42	\$1,593.14
Volume Discount 2...		\$1,748.57	\$690.36	\$982.53	\$2,573.99	\$4,758.23	\$1,251.09	\$691.28	\$478.67			\$803.27	\$473.64	\$6,749.77
Volume Discount 4...		\$868.49										\$1,097.62	\$639.37	

## 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”.

- c. Take a screen snapshot and paste it into a documents 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.

<input checked="" type="checkbox"/> All Promotions	<input checked="" type="checkbox"/> All Periods	\$4,331.38	\$5,485.85	\$7,048.03	\$4,974.65	\$3,788.71	\$5,520.58	\$4,192.04	\$2,828.23	\$4,206.93	\$3,629.64	\$3,394.37	\$4,532.67	\$3,541.24
<input checked="" 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	\$4,122.43	\$3,551.38	\$3,220.08	\$4,401.44	\$3,314.48
<input checked="" 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	\$1,656.81	\$1,393.44	\$2,271.26	\$1,787.00	\$2,759.15
<input checked="" type="checkbox"/> Discontinued Product		\$3,589.83											\$420.35	\$5,656.87
Mountain-100 Clea...		\$10,455.32												\$10,455.32
Mountain-500 Silve...		\$421.13											\$420.35	\$422.20
<input checked="" type="checkbox"/> Excess Inventory		\$796.18	\$822.14	\$779.86										
Road-650 Overstock		\$796.18	\$822.14	\$779.86										
<input checked="" 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 checked="" type="checkbox"/> Seasonal Discount		\$224.90	\$224.90											
Sport Helmet Disco...		\$199.05	\$199.05											
Sport Helmet Disco...		\$261.54	\$261.54											
<input checked="" 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	\$1,656.81	\$1,393.44	\$2,271.26	\$1,866.11	\$1,773.34
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	\$1,541.59	\$1,314.79	\$1,716.08	\$1,769.50	\$1,506.46
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	\$2,768.82	\$1,952.84	\$3,621.28	\$1,587.73	\$1,647.48
Volume Discount 2...		\$1,793.25	\$667.80	\$835.15	\$2,573.99	\$4,758.23	\$1,482.95	\$633.95	\$478.67			\$803.27	\$473.64	\$6,749.77
Volume Discount 4...		\$868.49										\$1,097.62	\$639.37	

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

- a. Modify the filter to show results only for the source Currency "EURO".
- b. Collapse all reseller promotions except for Excess Inventory. Show only the subcategories with in the Excess Inventory item.
- c. Remove the pivot chart so that the sheet only displays the pivot table.
- d. Take a screen snapshot and paste it into a documents 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.

<div><div></div><div>All Promotions</div></div>	<div><div></div><div>All Periods</div></div>	\$4,331.38	\$5,485.85	\$7,048.03	\$4,974.65	\$3,788.71	\$5,520.58	\$4,192.04	\$2,828.23	\$4,206.93	\$3,629.64	\$3,394.37	\$4,532.67	\$3,541.24
<div><div></div><div>No Discount</div></div>		\$4,111.90	\$4,904.10	\$6,595.94	\$4,456.80	\$3,576.11	\$5,389.99	\$4,024.12	\$2,760.06	\$4,122.43	\$3,551.38	\$3,220.08	\$4,401.44	\$3,314.48
<div><div></div><div>Reseller</div></div>		\$2,667.13	\$4,999.50	\$3,627.81	\$4,741.38	\$2,193.95	\$2,088.10	\$2,142.87	\$1,358.94	\$1,656.81	\$1,393.44	\$2,271.26	\$1,787.00	\$2,759.15
<div><div></div><div>Discontinued Product</div></div>		\$3,589.83											\$420.35	\$5,656.87
<div><div></div><div>Mountain-100 Clear</div></div>		\$10,455.32												\$10,455.32
<div><div></div><div>Mountain-500 Silver</div></div>		\$421.13											\$420.35	\$422.20
<div><div></div><div>Excess Inventory</div></div>		\$796.18	\$822.14	\$779.86										
<div><div></div><div>Road-650 Overstock</div></div>		\$796.18	\$822.14	\$779.86										
<div><div></div><div>New Product</div></div>		\$6,969.55	\$10,428.79	\$6,808.83	\$6,253.15	\$2,384.07								
<div><div></div><div>Touring-3000 Promotional</div></div>		\$3,761.72	\$5,589.74	\$3,383.92	\$3,477.77									
<div><div></div><div>Touring-1000 Promotional</div></div>		\$5,277.55	\$6,873.46	\$5,259.63	\$4,896.13	\$2,384.07								
<div><div></div><div>Seasonal Discount</div></div>		\$224.90	\$224.90											
<div><div></div><div>Sport Helmet Discount</div></div>		\$199.05	\$199.05											
<div><div></div><div>Sport Helmet Discount</div></div>		\$261.54	\$261.54											
<div><div></div><div>Volume Discount</div></div>		\$2,379.28	\$4,904.20	\$3,251.99	\$3,943.75	\$2,191.59	\$2,088.10	\$2,142.87	\$1,358.94	\$1,656.81	\$1,393.44	\$2,271.26	\$1,866.11	\$1,773.34
<div><div></div><div>Volume Discount 1...</div></div>		\$2,002.66	\$3,743.68	\$2,934.20	\$3,124.29	\$1,571.08	\$1,829.61	\$2,001.48	\$1,309.59	\$1,541.59	\$1,314.79	\$1,716.08	\$1,769.50	\$1,506.46
<div><div></div><div>Volume Discount 1...</div></div>		\$3,017.97	\$5,586.41	\$2,285.43	\$3,438.79	\$4,841.48	\$2,861.50	\$2,086.70	\$1,665.11	\$2,768.82	\$1,952.84	\$3,621.28	\$1,587.73	\$1,647.48
<div><div></div><div>Volume Discount 2...</div></div>		\$1,793.25	\$667.80	\$835.15	\$2,573.99	\$4,758.23	\$1,482.95	\$633.95	\$478.67			\$803.27	\$473.64	\$6,749.77
<div><div></div><div>Volume Discount 4...</div></div>		\$868.49										\$1,097.62	\$639.37	