

Module 2 Multidimensional data representation and manipulation

Lesson 5: Overview of Pivot4J



Lesson Objectives

- Gain basic understanding of Pivot4J interface
- Understand relationship of Pivot4J and Microsoft MDX
- Gain motivation and context for guided practice and assignment



Pivot Table

	Order Status						
	Cancelled Measures	Disputed Measures	In Process Measures	On Hold Measures	Resolved Measures	Shipped Measures	Total Measures
Product	Sales	Sales	Sales	Sales	Sales	Sales	Sales
1968 Ford Mustang	3,923					149,346	153,26
1958 Chevy Corvette Limited Edition			1,030			46,205	47,23!
1966 Shelby Cobra 427 S/C			2,234	2,576	1,463	42,336	48,608
1982 Camaro Z28			3,722		3,195	97,362	104,280
1949 Jaguar XK 120			3,934	7,182		72,523	83,639
1952 Alpine Renault 1300			12,001			179,072	191,07
1956 Porsche 356A Coupe	5,148					135,479	140,62
1957 Corvette Convertible						137,115	137,11
1961 Chevrolet Impala						83,389	83,38
1965 Aston Martin DB5	3,375			7,048	2,759	93,669	106,85
1952 Citroen-15CV			5,297	5,820		81,773	92,89
1969 Chevrolet Camaro Z28			3,386	1,057		66,304	70,74
1992 Porsche Cayenne Turbo Silver	2,367					99,789	102,15
1948 Porsche 356-A Roadster	1 930					77 738	79.66

- Powerful interface for data cubes
- Convenient rearrangement of row and column headings
- Expand or collapse dimensions





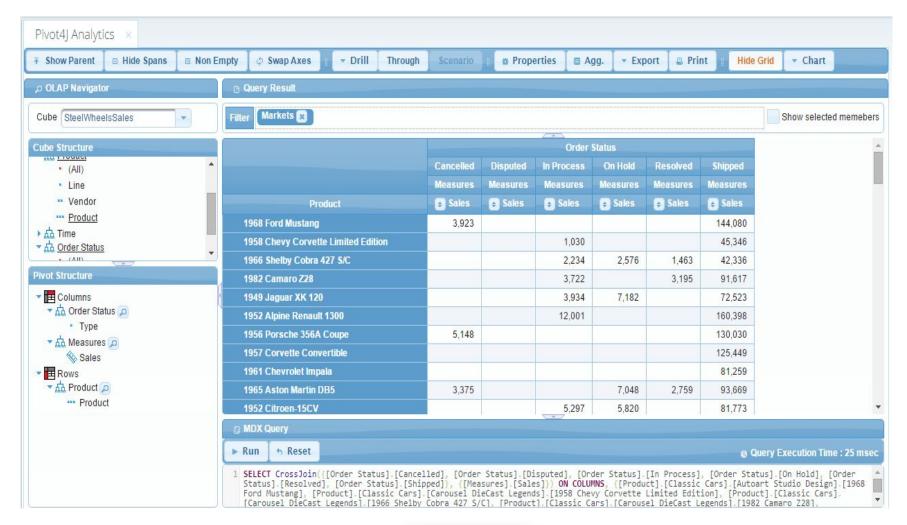
Pivot4J

- Allows cube representation similar to pivot table in Microsoft Excel
- Works with Pentaho Business Analytics
- Separate add-on
- Graphical implementation of the MDX language





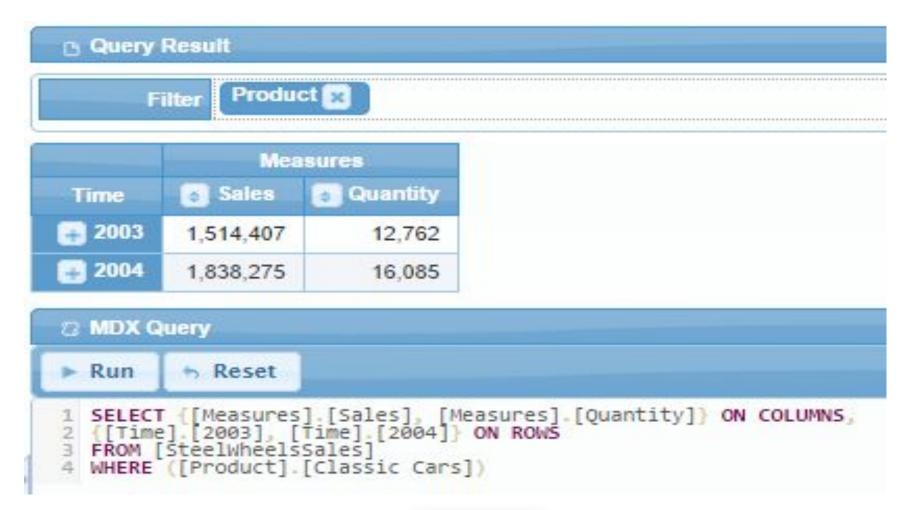
Pivot4J Interface







Pivot Table with MDX Statement







Pivot Table with CrossJoin







Summary

- Open source implementation of pivot table interface
- Visual interface for MDX
- Complete guided practice and assignment

