

# Module 1

## Data Warehouse Concepts and Architectures

Lesson 2: Course topics and assignments

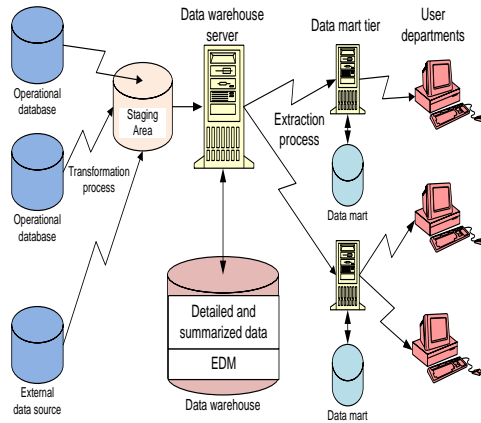


# Lesson Objectives

- Understand course topics and course flow
- Understand assessments especially practice and graded problems
- Obtain software



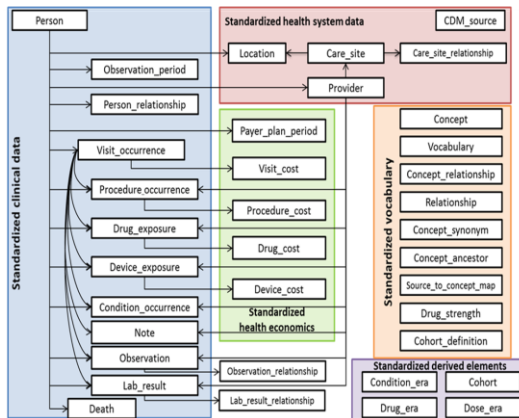
# Course Topics



Product	Measures			
	Quantity	Sales	Total	
			Quantity	Sales
Classic Cars	35,552	4,091,420	35,552	4,091,420
Vintage Cars	22,893	2,066,226	22,893	2,066,226
Motorcycles	12,708	1,274,125	12,708	1,274,125
Trucks and Buses	11,001	1,154,281	11,001	1,154,281
Planes	11,860	1,076,757	11,860	1,076,757
Ships	8,499	748,671	8,499	748,671
Trains	2,818	234,469	2,818	234,469
Carousel DieCast Legends	918	95,971	918	95,971
Classic Metal Creations	966	72,664	966	72,664
Gearbox Collectibles	934	65,834	934	65,834
Average	11,703	1,181,883	11,703	1,182,883

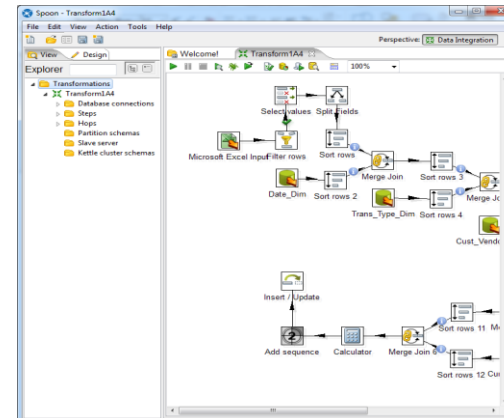
Dimensions: Product, Quantity, Sales, Total  
Aggregation of the measures: Average

## Architectures



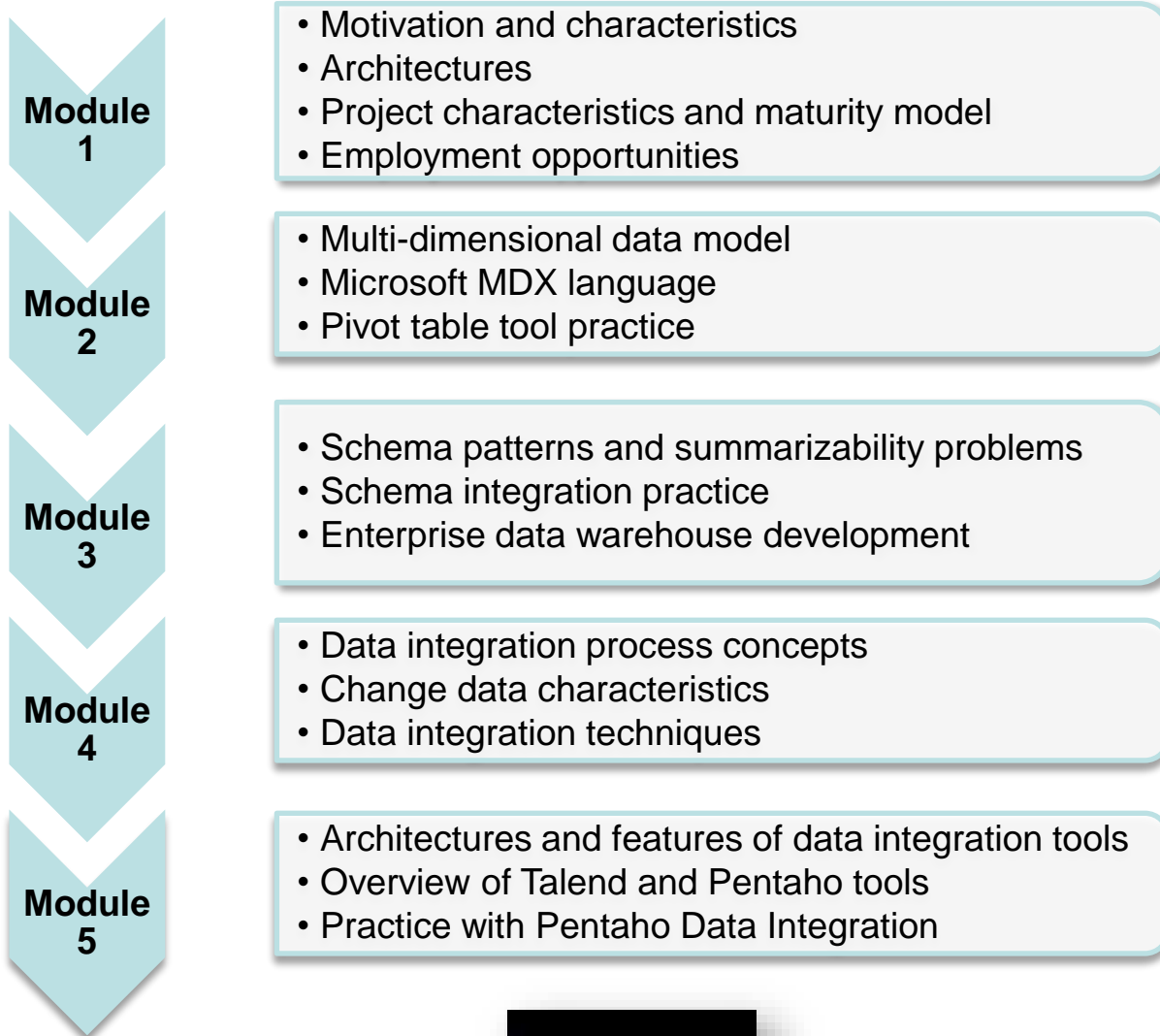
## Schema Design

## Pivot Table Manipulation



## Data Integration

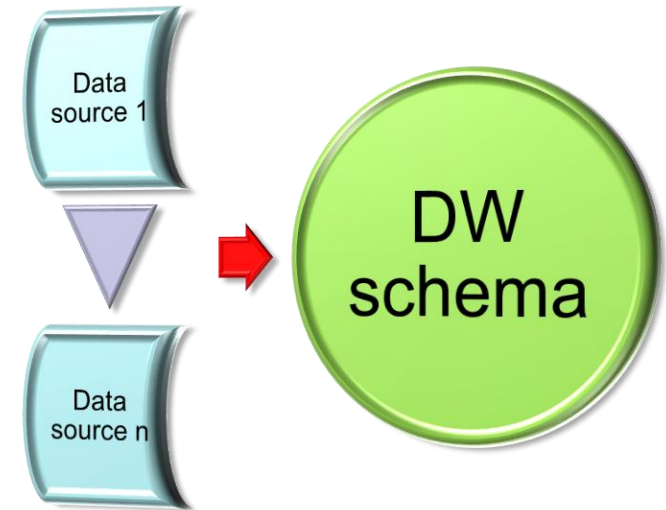
# Course Flow



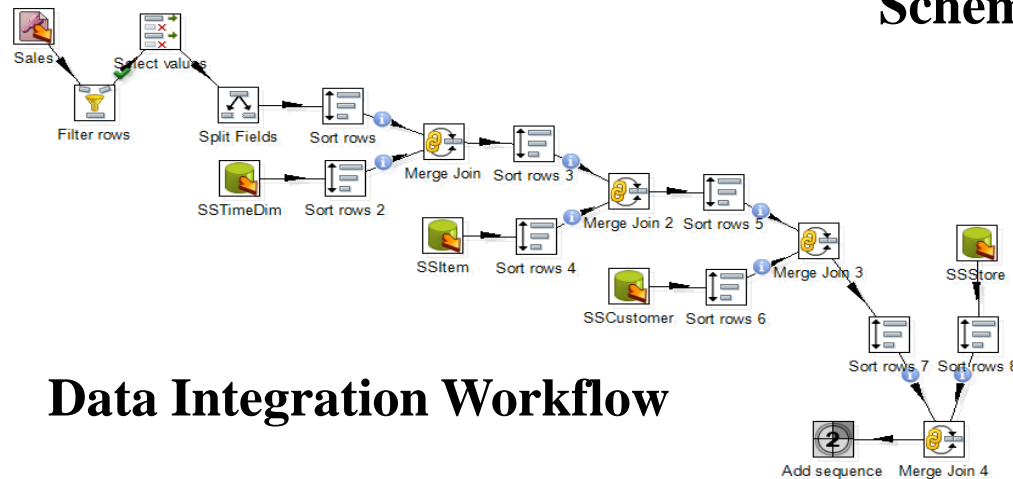
# Assignments

Product	Order Status						
	Cancelled	Disputed	In Process	On Hold	Resolved	Shipped	Total
	Measures	Measures	Measures	Measures	Measures	Measures	Measures
	Sales	Sales	Sales	Sales	Sales	Sales	Sales
1968 Ford Mustang	3,923					149,346	153,268
1958 Chevy Corvette Limited Edition			1,030			46,205	47,235
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	191,073
1956 Porsche 356A Coupe	5,148					135,479	140,627
1957 Corvette Convertible						137,115	137,115
1961 Chevrolet Impala						83,389	83,389
1965 Aston Martin DB5	3,375			7,048	2,759	93,669	106,851
1952 Citroen-15CV			5,297	5,820		81,773	92,890
1969 Chevrolet Camaro Z28			3,386	1,057		66,304	70,747
1992 Porsche Cayenne Turbo Silver	2,367					99,789	102,156
1948 Porsche 356-A Roadster	1,930					77,738	79,668

## Pivot Table Manipulation



## Schema Integration



## Data Integration Workflow



# Tools





# Summary

- Balance concepts, design, software skills, and management practices
- Assignments for schema design, pivot table manipulation, and data integration workflows
- Usage of open source tools for pivot table manipulation and data integration workflows

