



Business School  
UNIVERSITY OF COLORADO DENVER

Information Systems Program

# Module 1

## Overview of Relational Database Support

### Lesson 4: Relational Database Schema Patterns

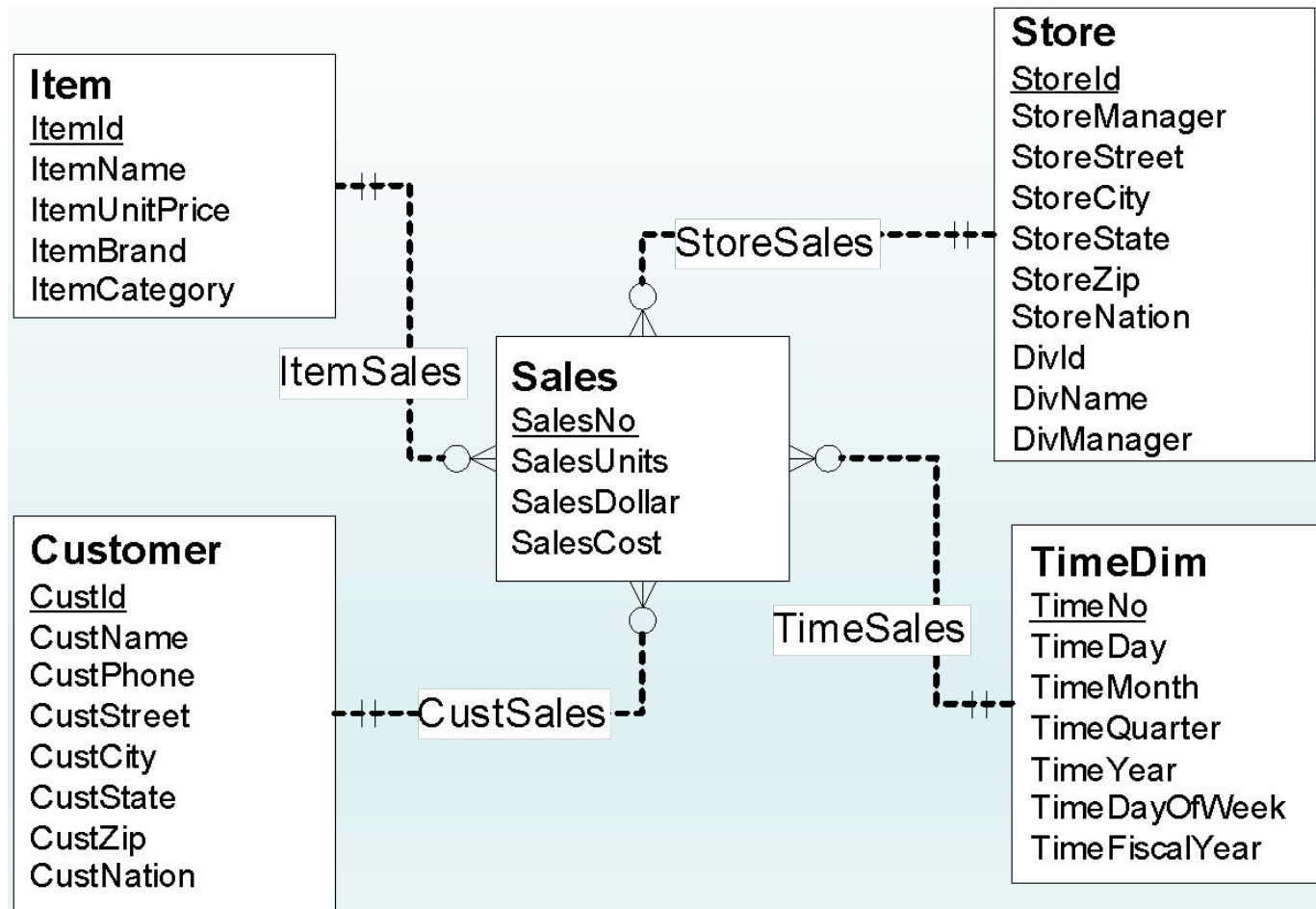


# Lesson Objectives

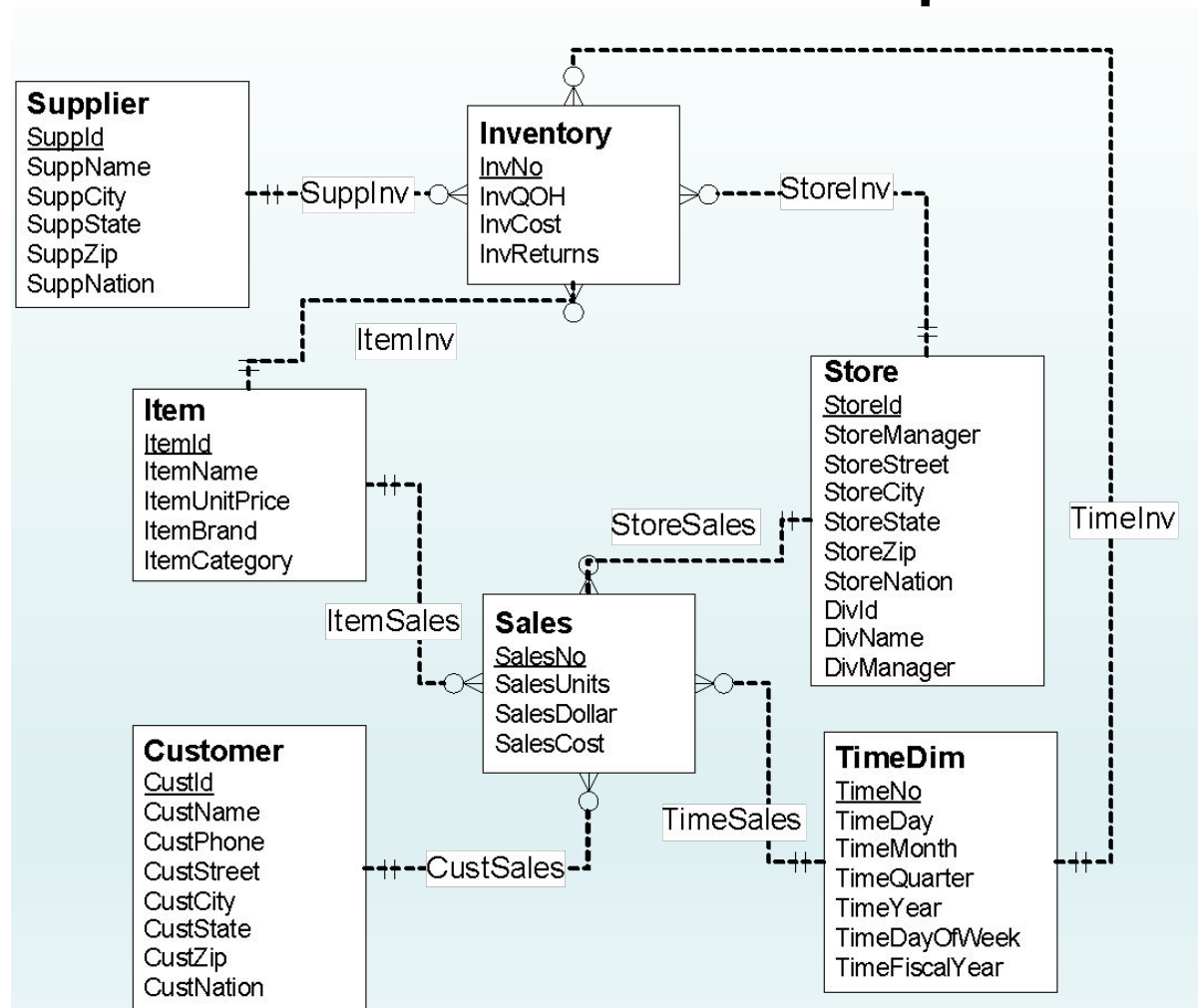
- Review schema patterns
- Understand data warehouse used in ungraded exercises
- Understand data warehouse used in graded assignments



# Star Schema Example



# Constellation Schema Example



# Extended Constellation Schema

- Item sales, Subscription sales, Inventory cost
- Store
- Item
- Customer
- Lead
- Package
- Format
- Supplier
- TimeDim

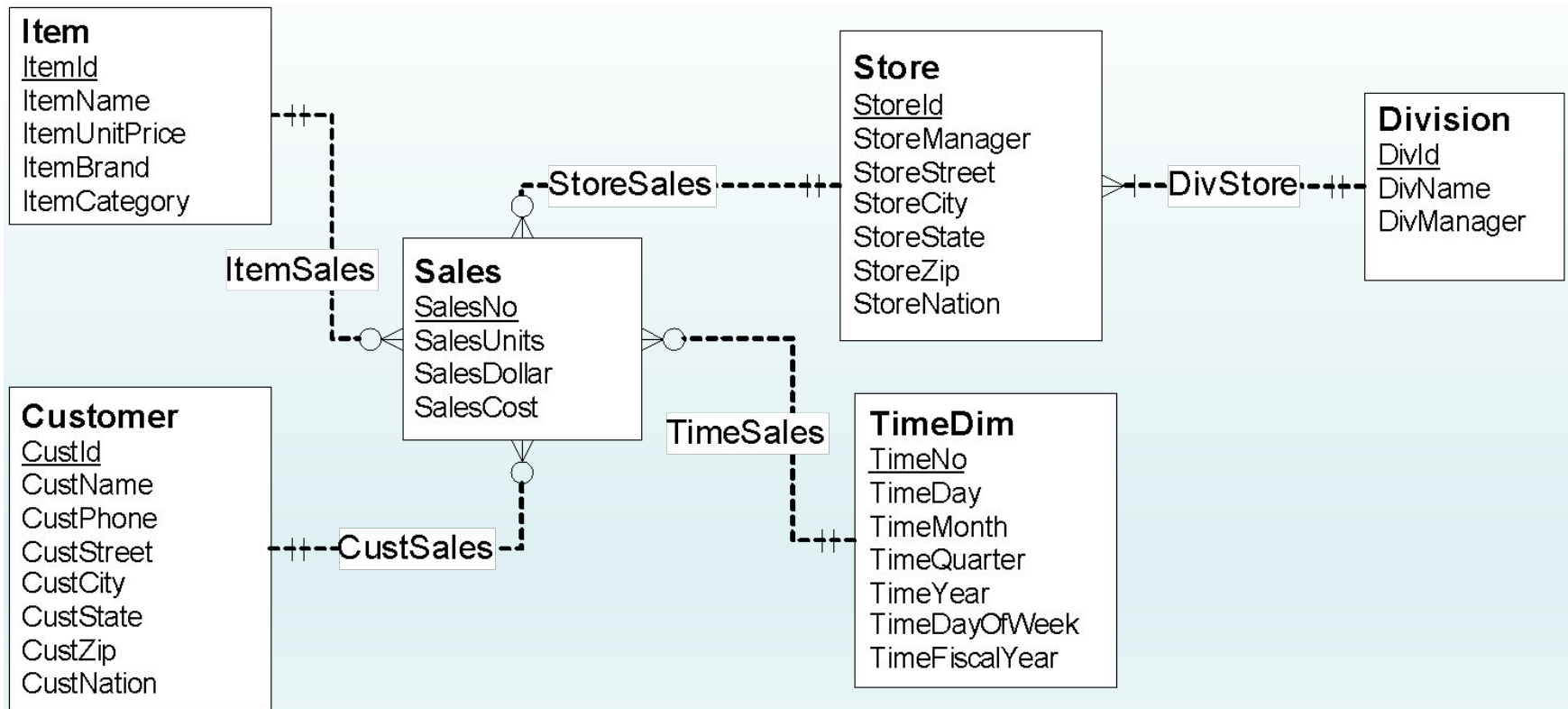


# Matrix for a Constellation Schema

Dimensions	Facts		
	<i>Product Sales</i>	<i>Subscription Sales</i>	<i>Inventory</i>
<i>Store</i>	X		
<i>Item</i>	X	X	X
<i>Customer</i>	X	X	
<i>Lead</i>		X	
<i>Package</i>		X	
<i>Format</i>		X	
<i>Supplier</i>			X
<i>TimeDim</i>	X	X	X

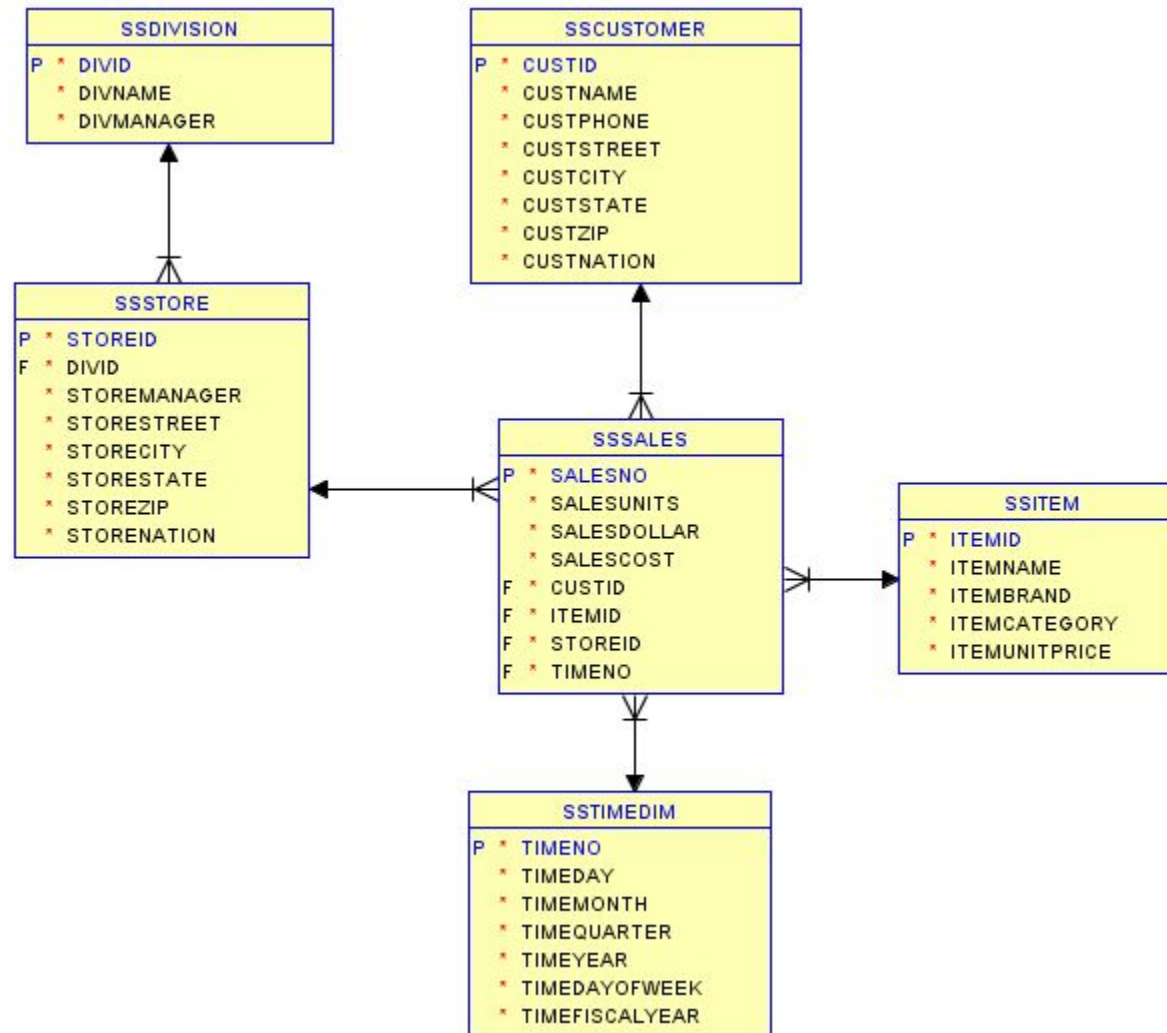


# Snowflake Schema Example



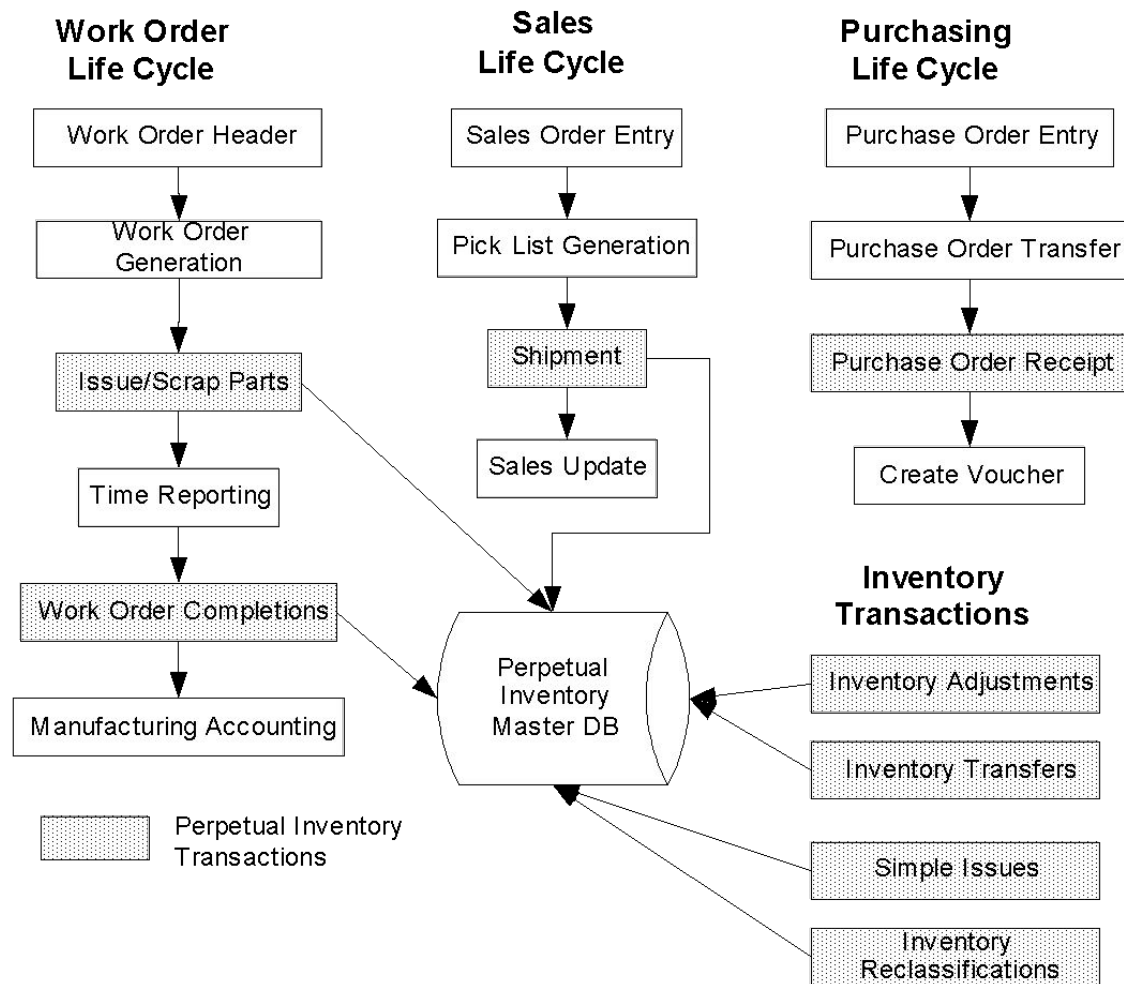


# Oracle Diagram for the Store Sales DW

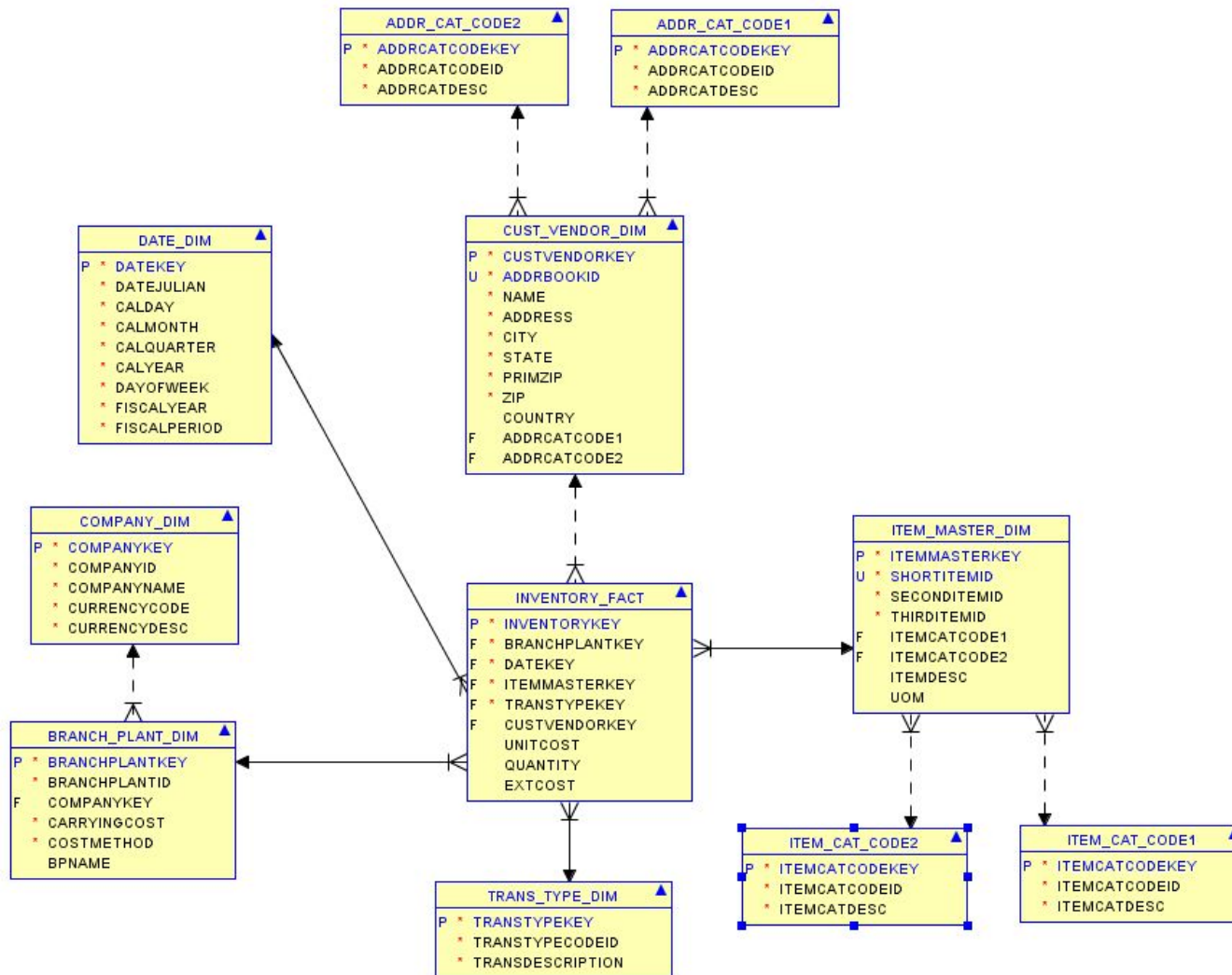




# Inventory Lifecycles



# Oracle Diagram for the Inventory DW



# Summary

- Understand schema patterns for query formulation
- Store sales data warehouse for practice problems
- Inventory data warehouse for graded problems
- Course documents for both data warehouses

