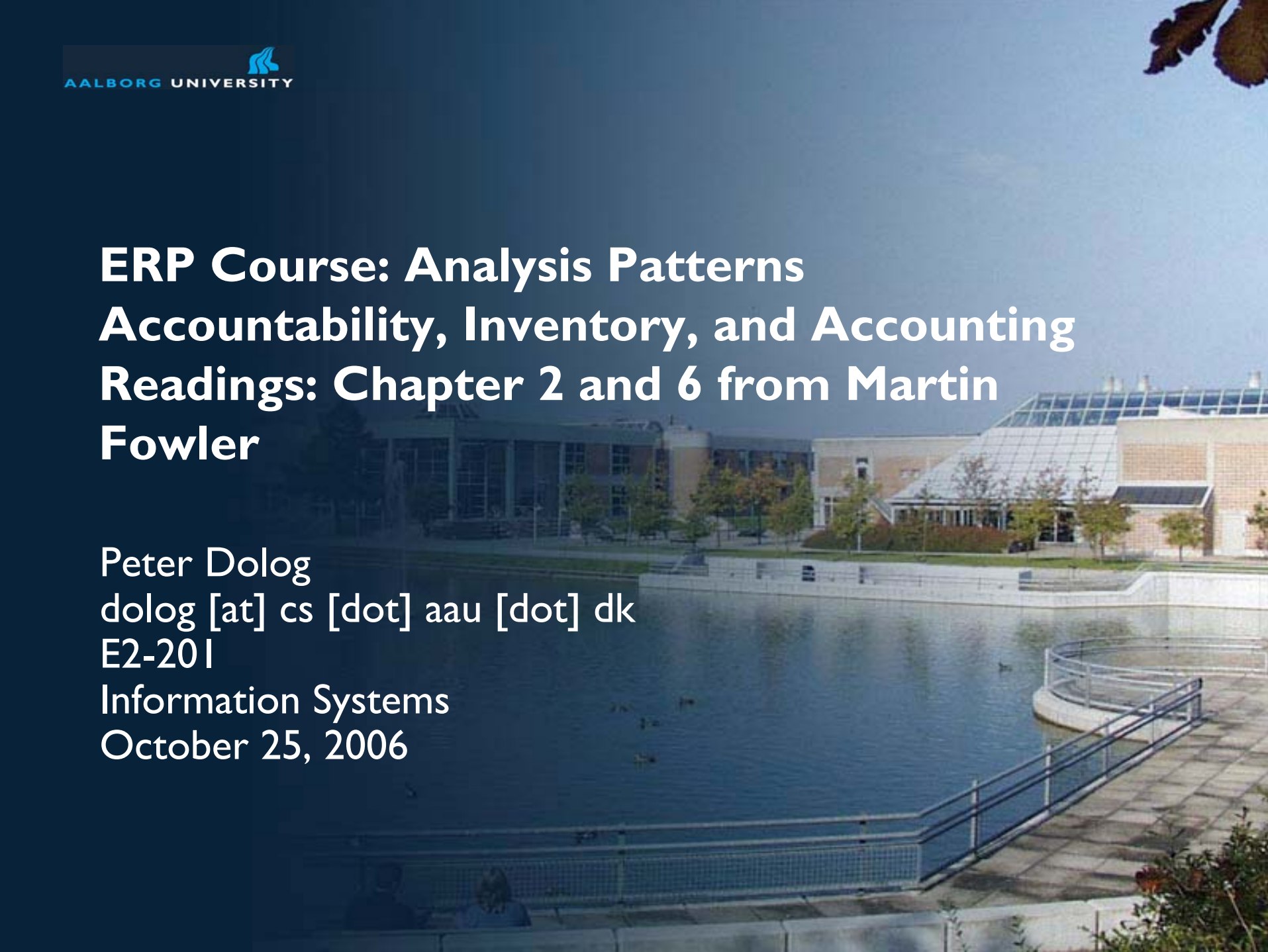


# ERP Course: Analysis Patterns Accountability, Inventory, and Accounting Readings: Chapter 2 and 6 from Martin Fowler

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E2-201  
Information Systems  
October 25, 2006



# Accountability

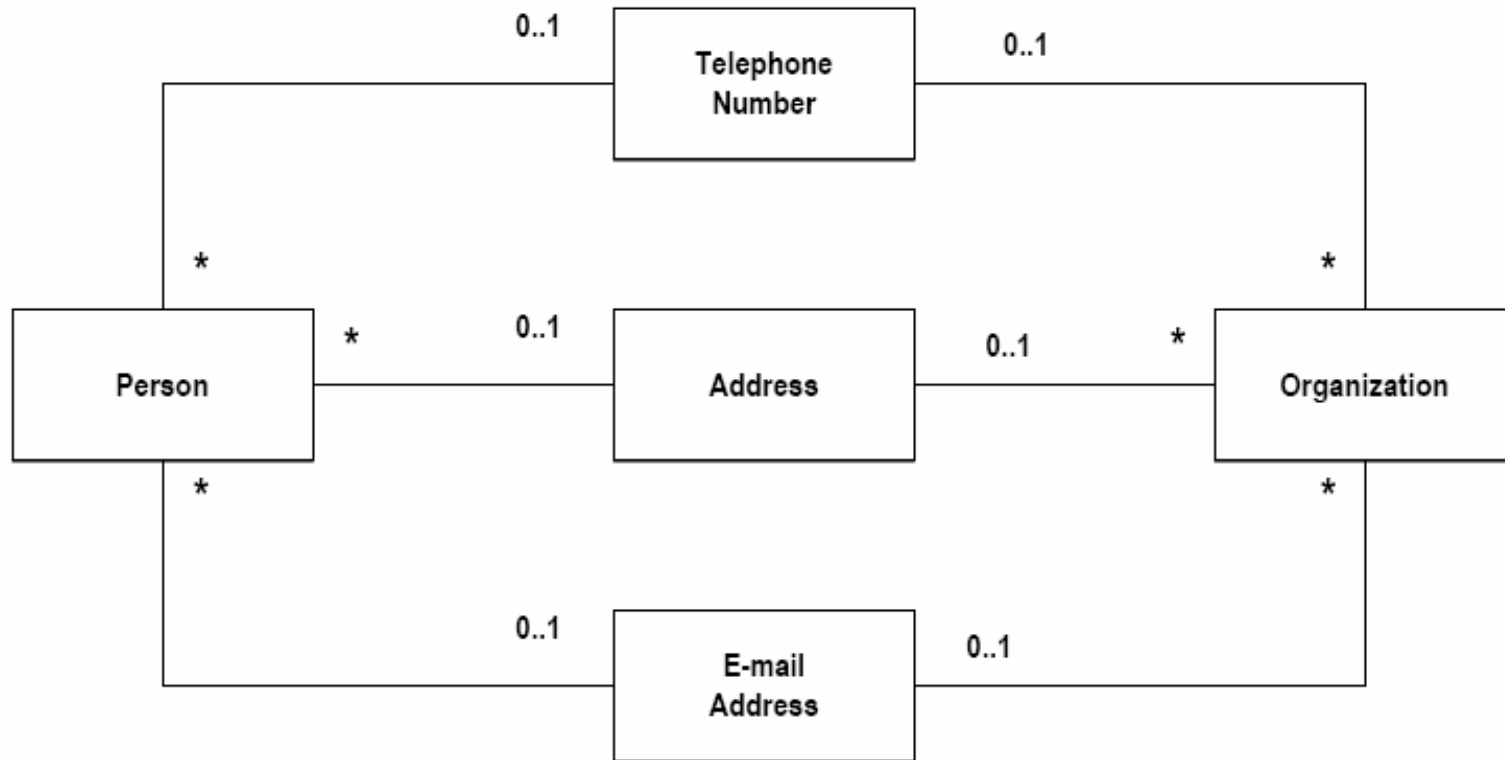
A relationship of responsibility between responsee and responsible

Organizational structures

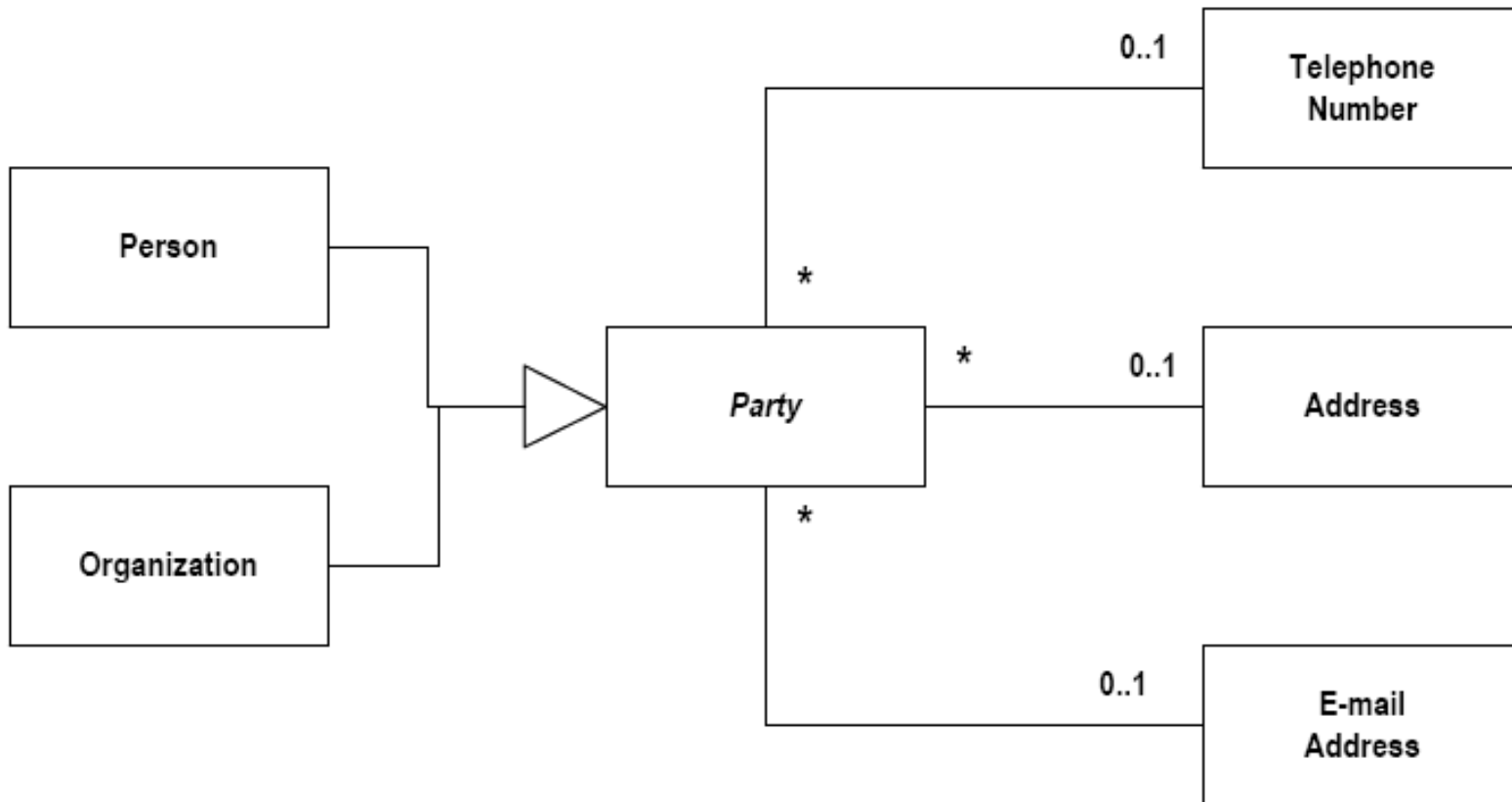
Employments

Contracts

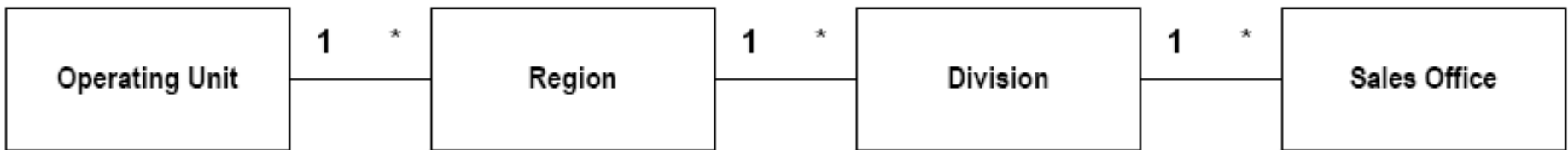
# Address Book



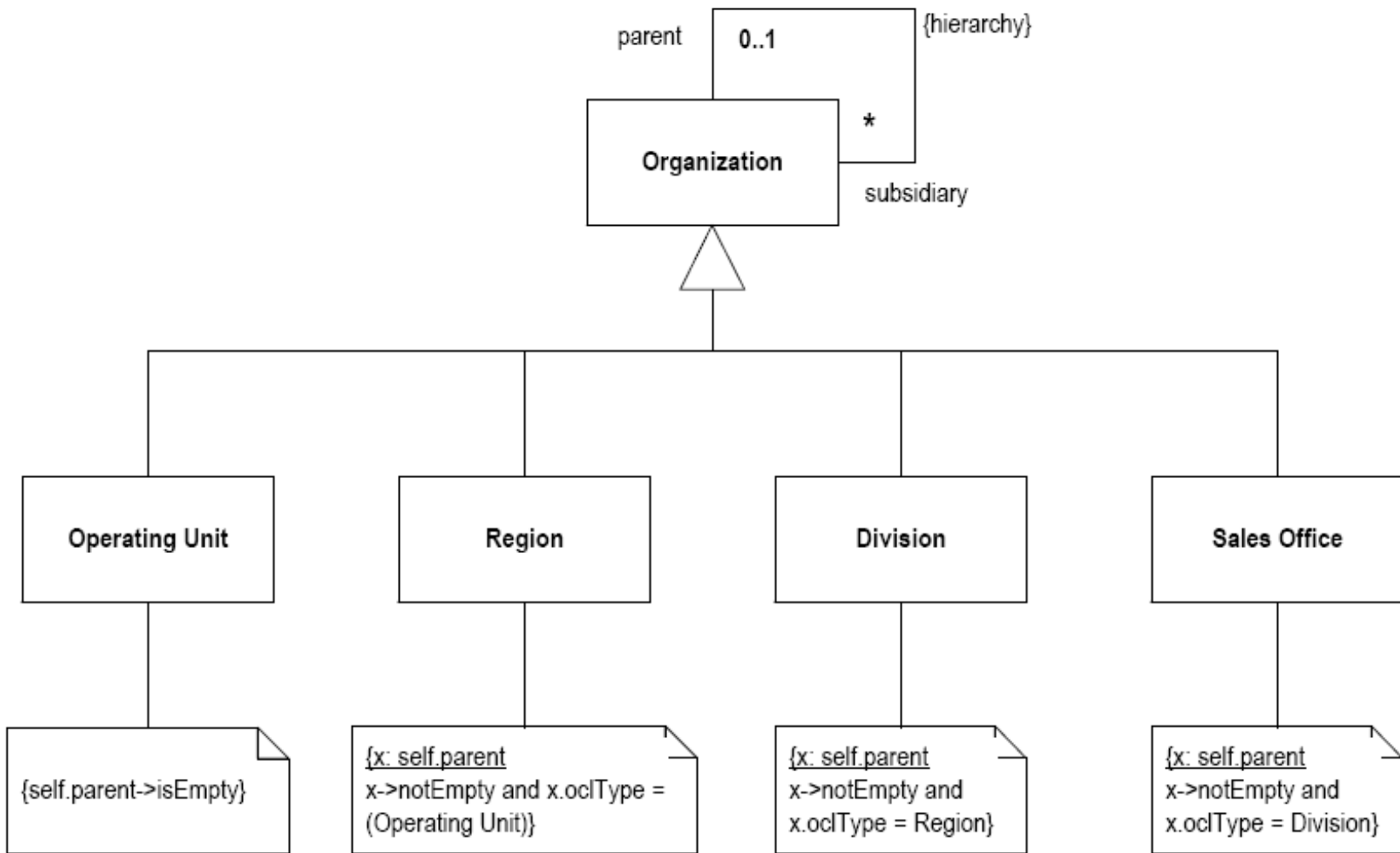
# Party



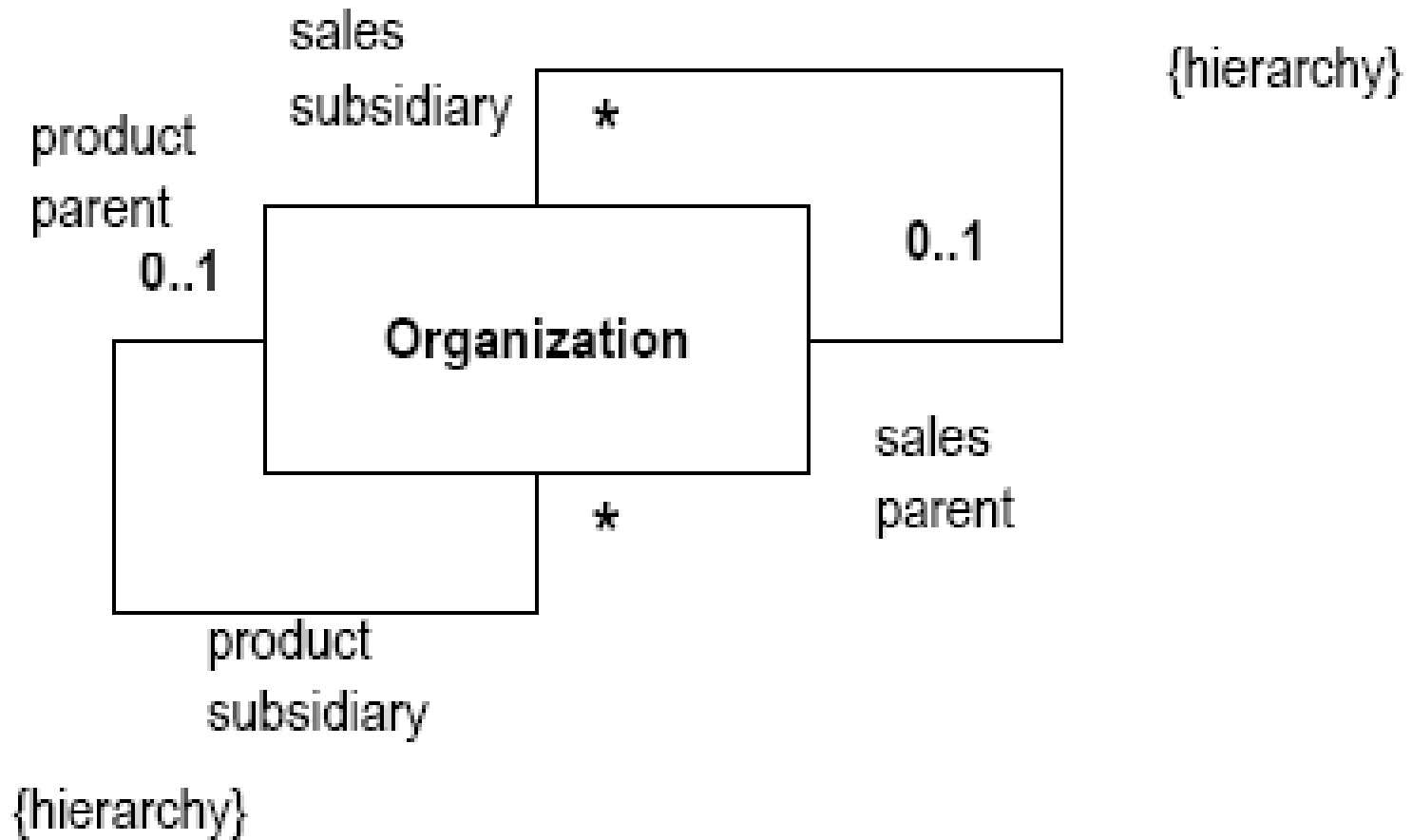
# Organization Structure with Explicit Levels



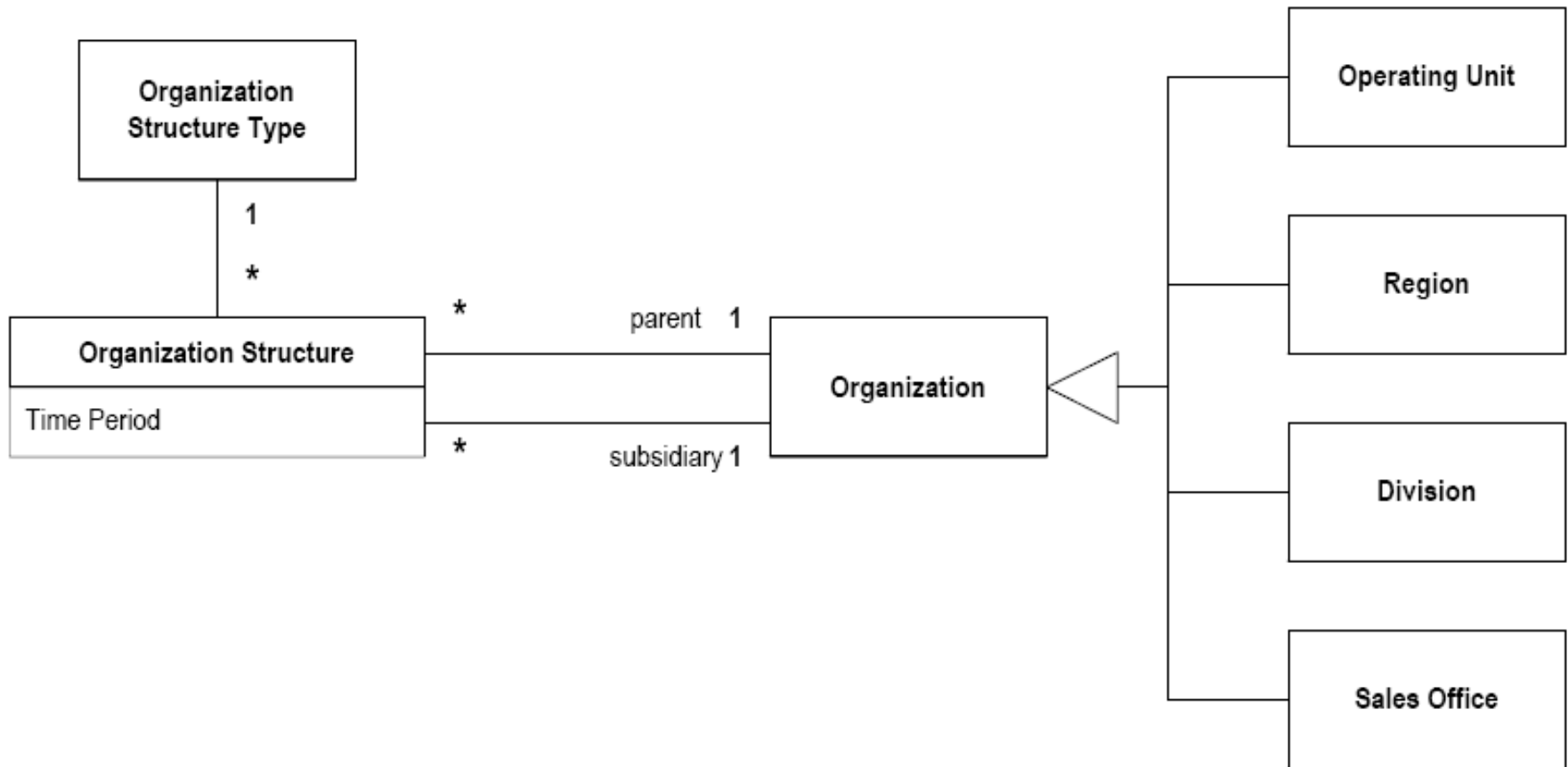
# Organization Supertype



# Two organizational hierarchies

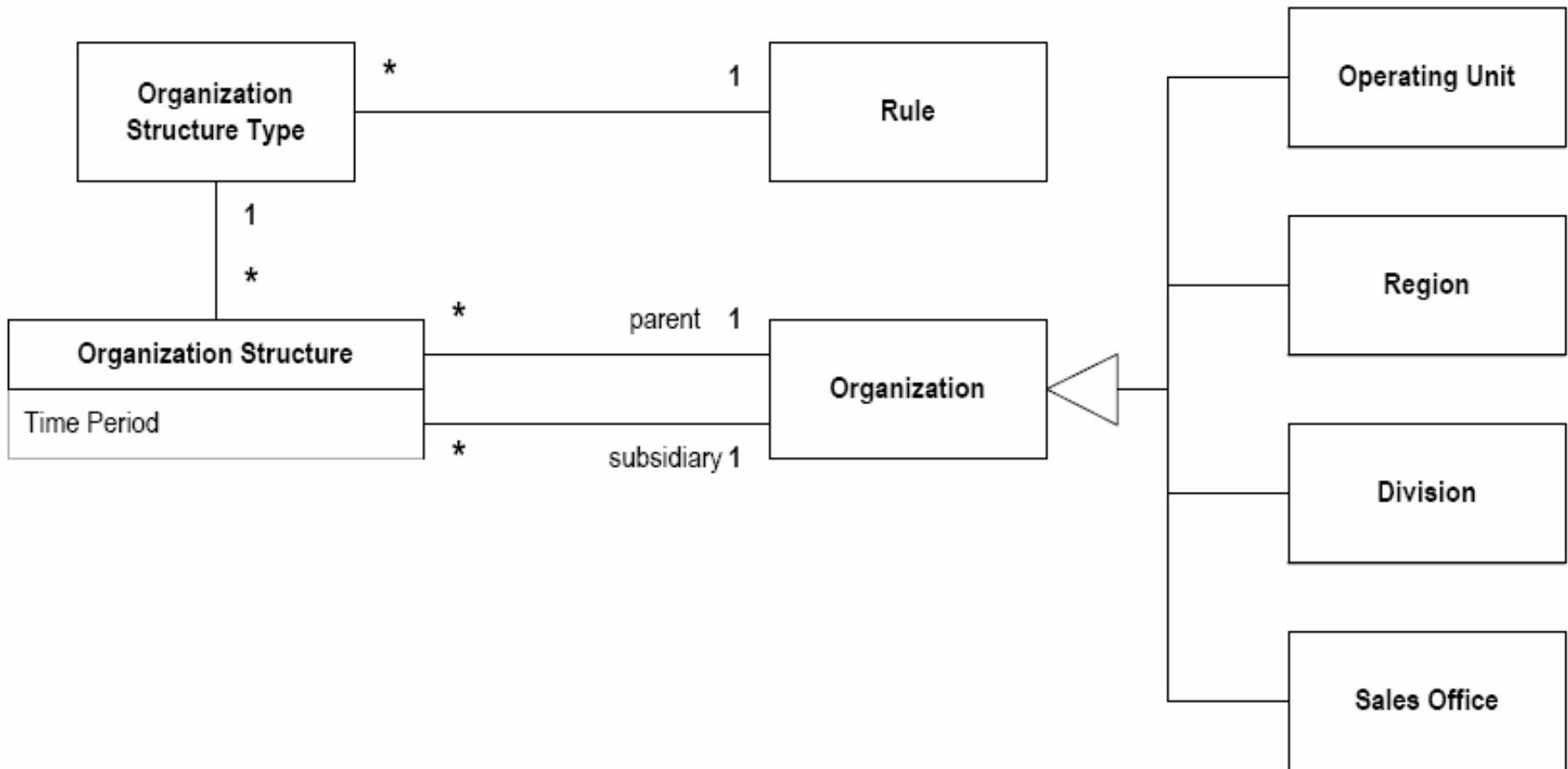


# Typed Relationships

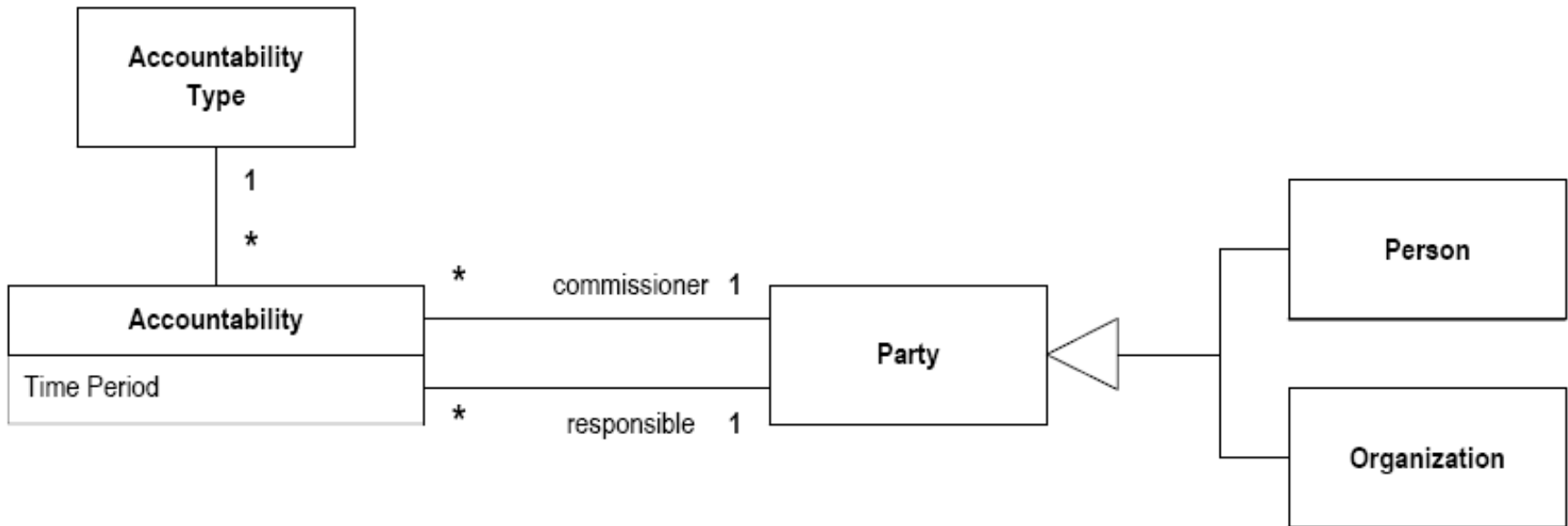




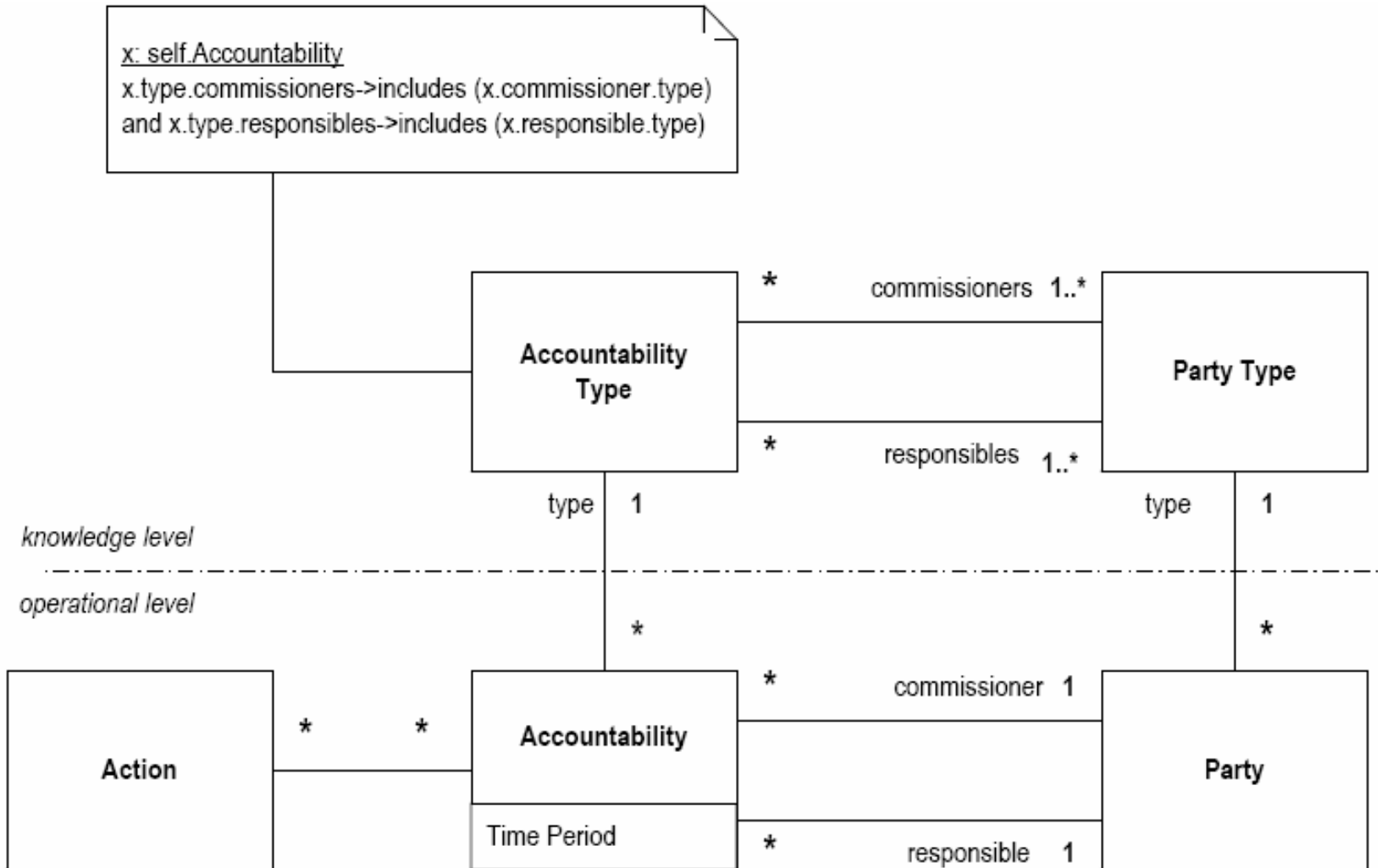
# Rules



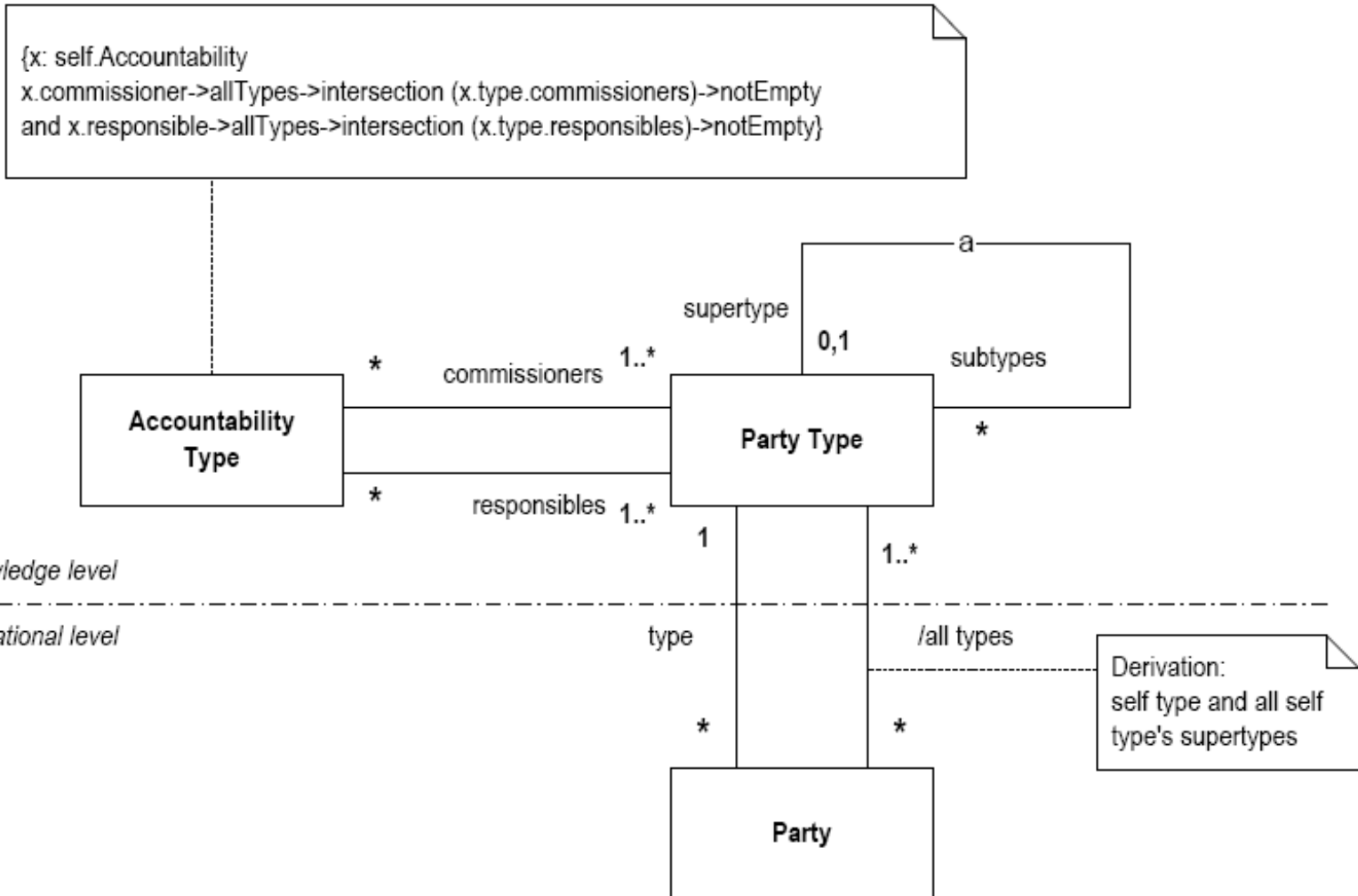
# Accountability



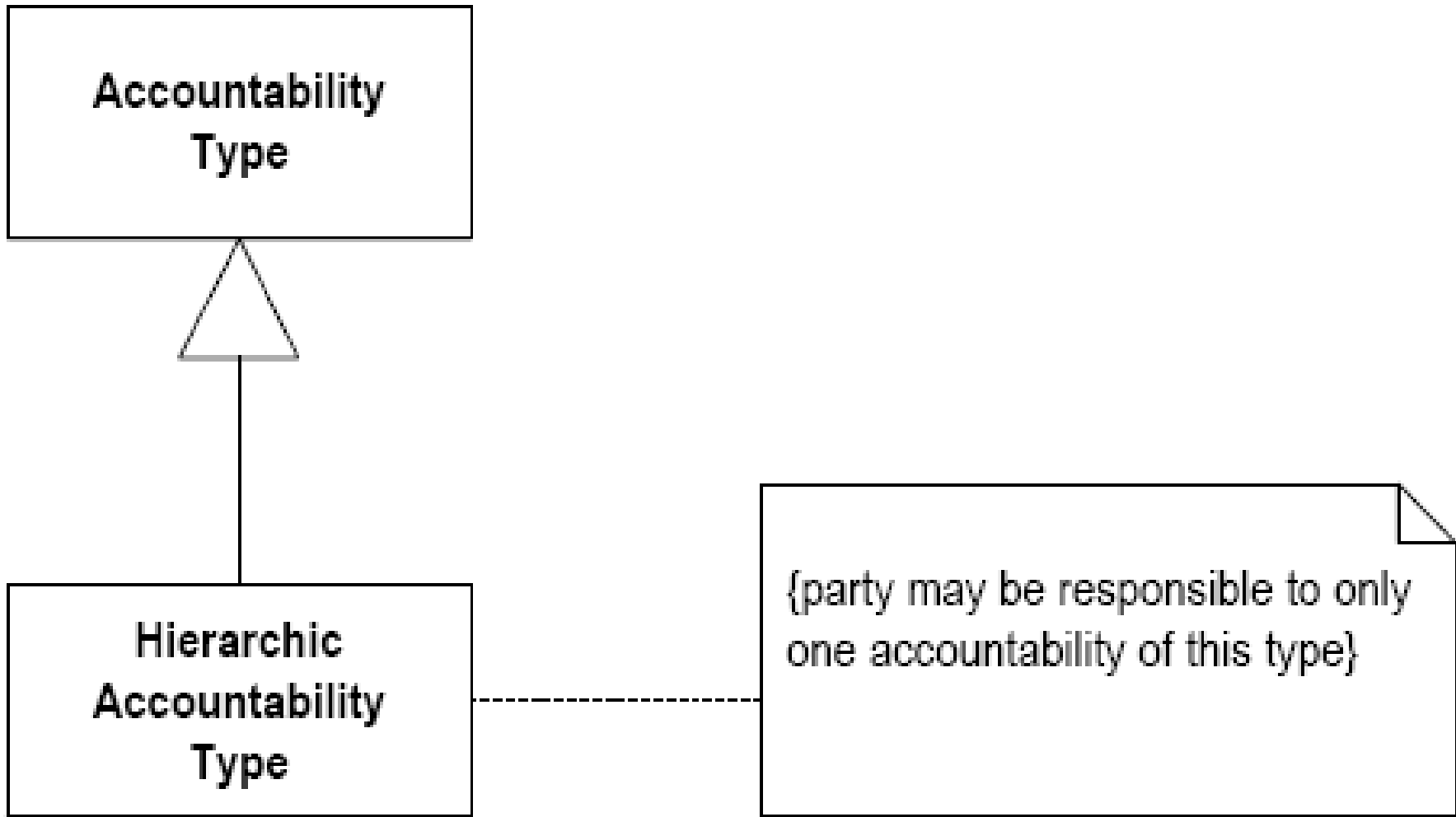
# Knowledge and operational levels



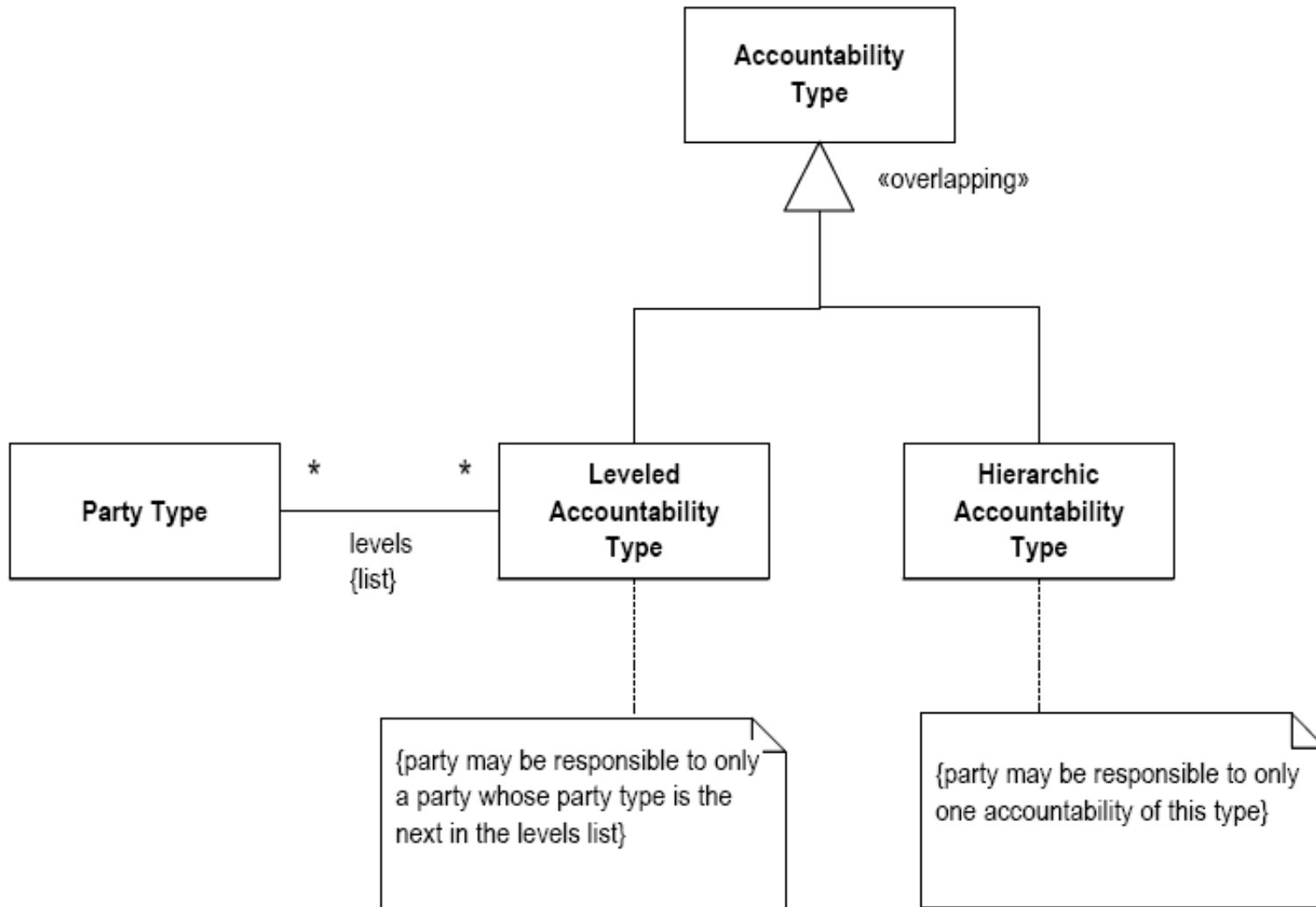
# Party Type Generalizations



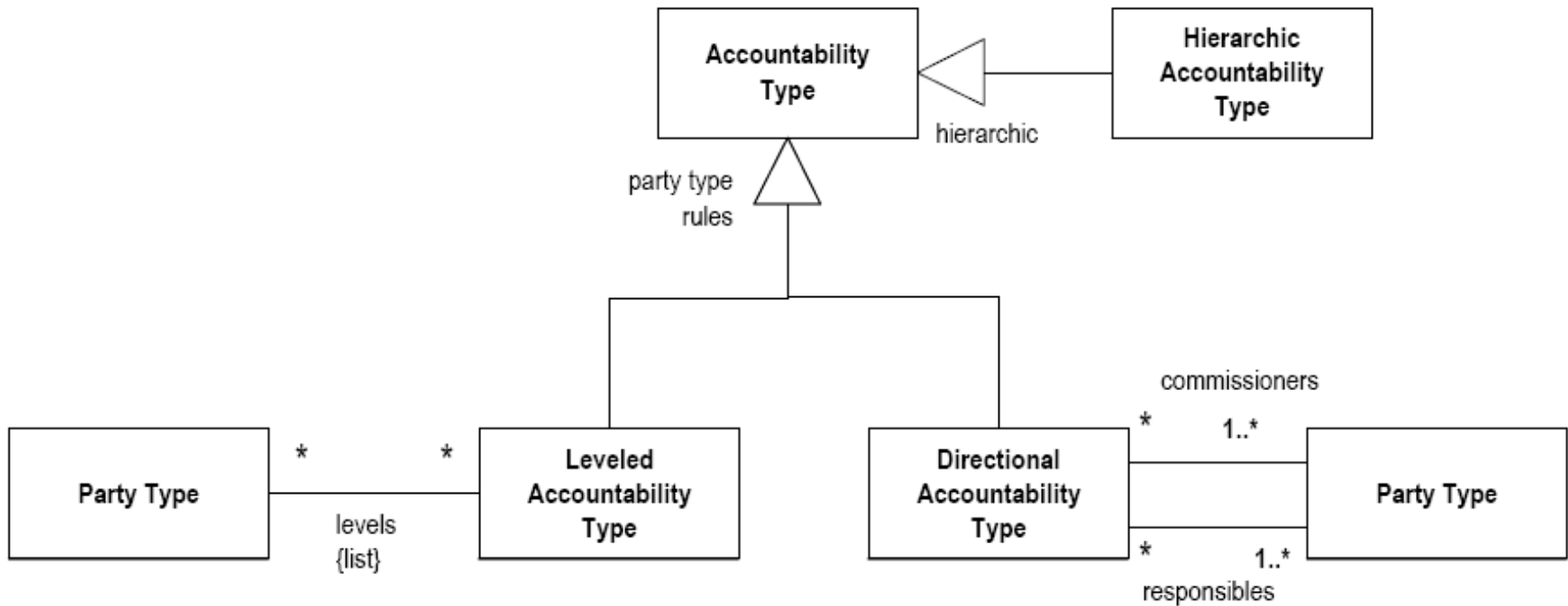
# Hierarchic Accountability Type



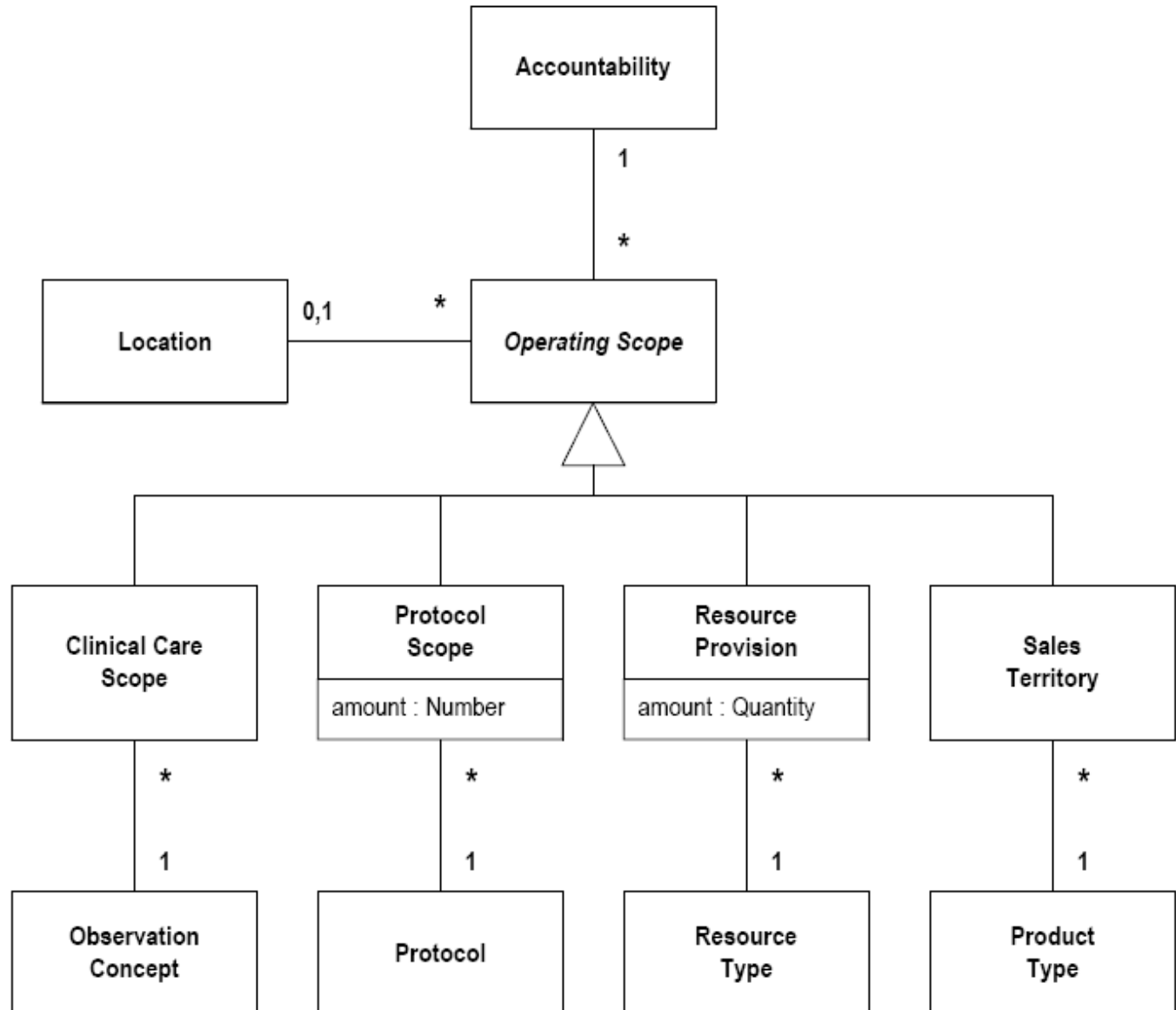
# Leveled Accountability Type



# Subtypes of Accountability Types



# Operating Scopes





# Accounting

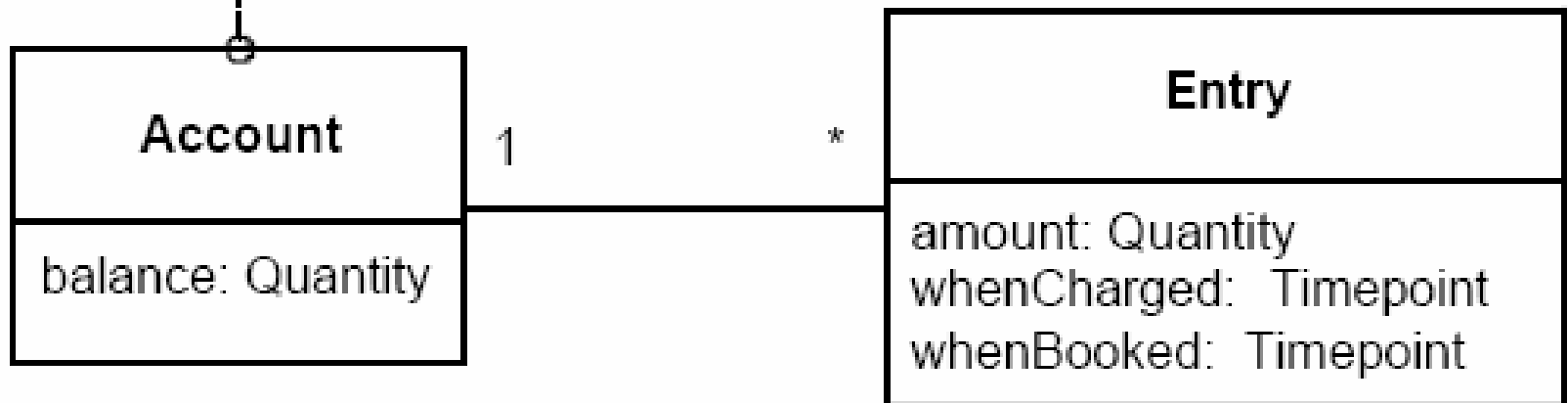
Tracing how money move througout the company

Tacking of earnings and expenditures

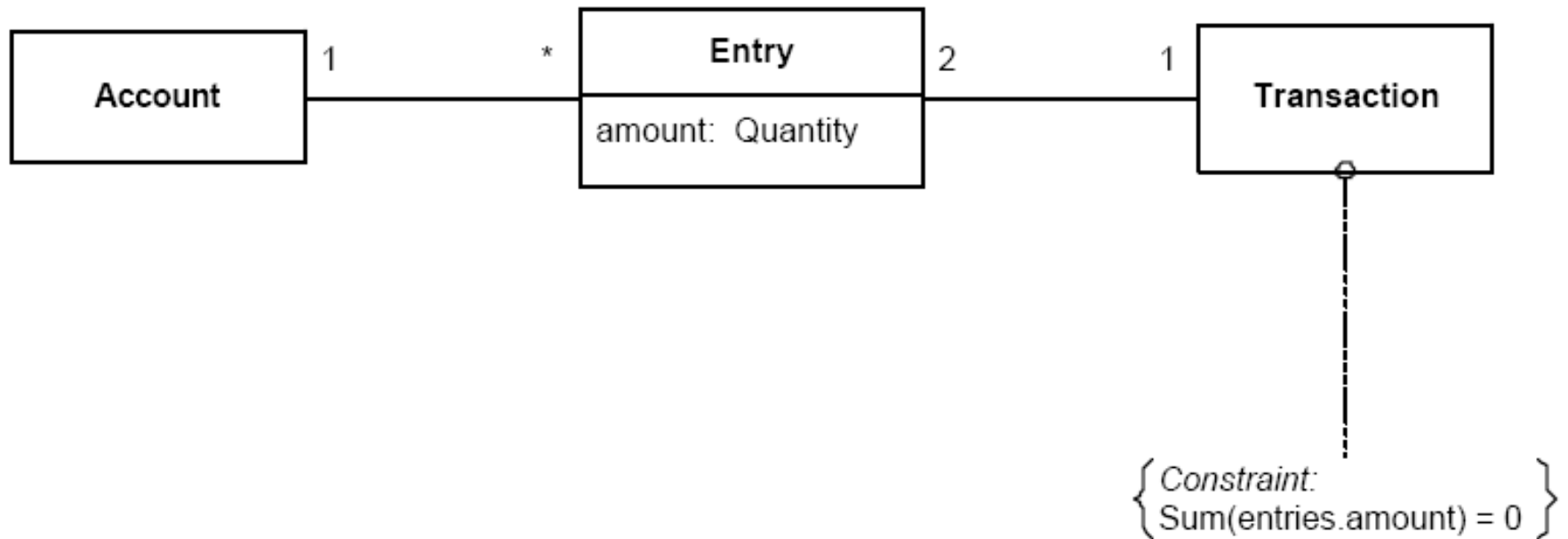
Posts of money and goods to record – entries

# Account

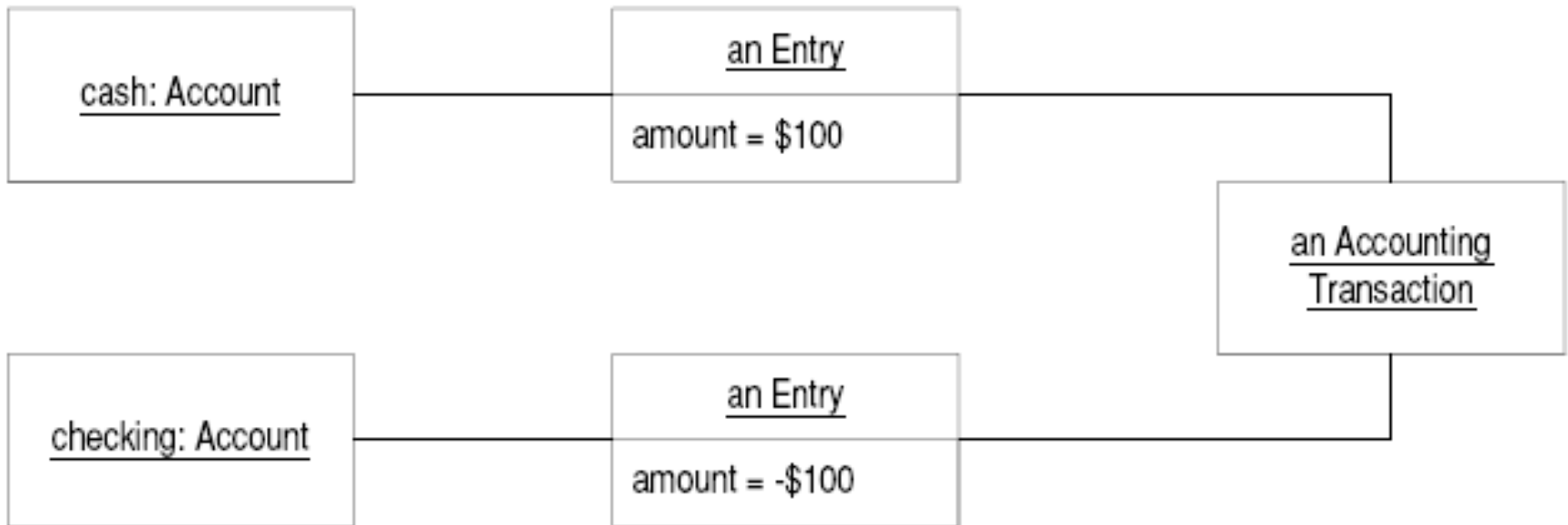
{ Constraint:  
balance=sum(entries.amount) }



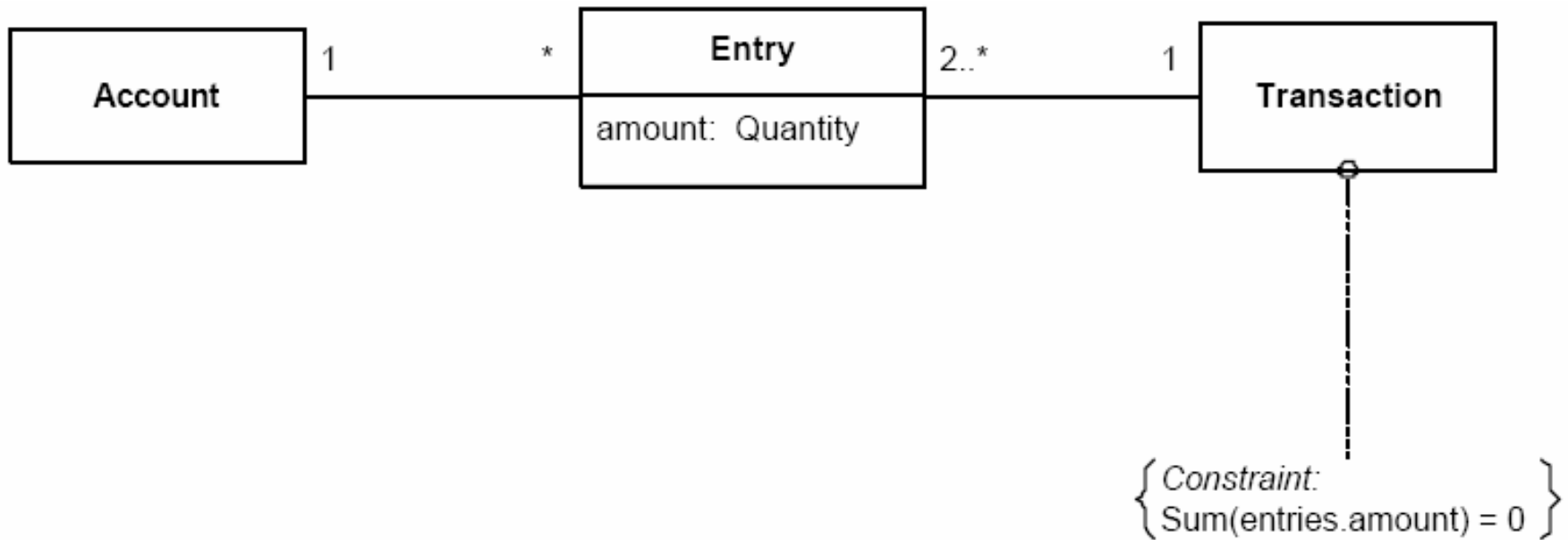
# A Transaction with Two Entries



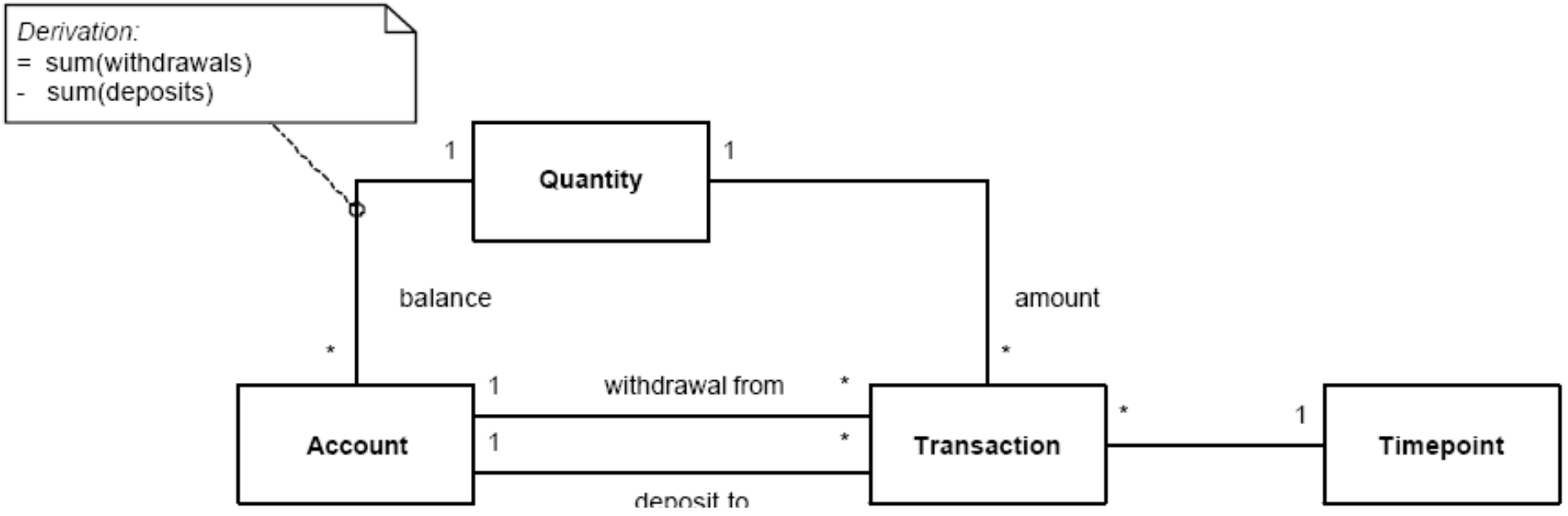
# Instance Example



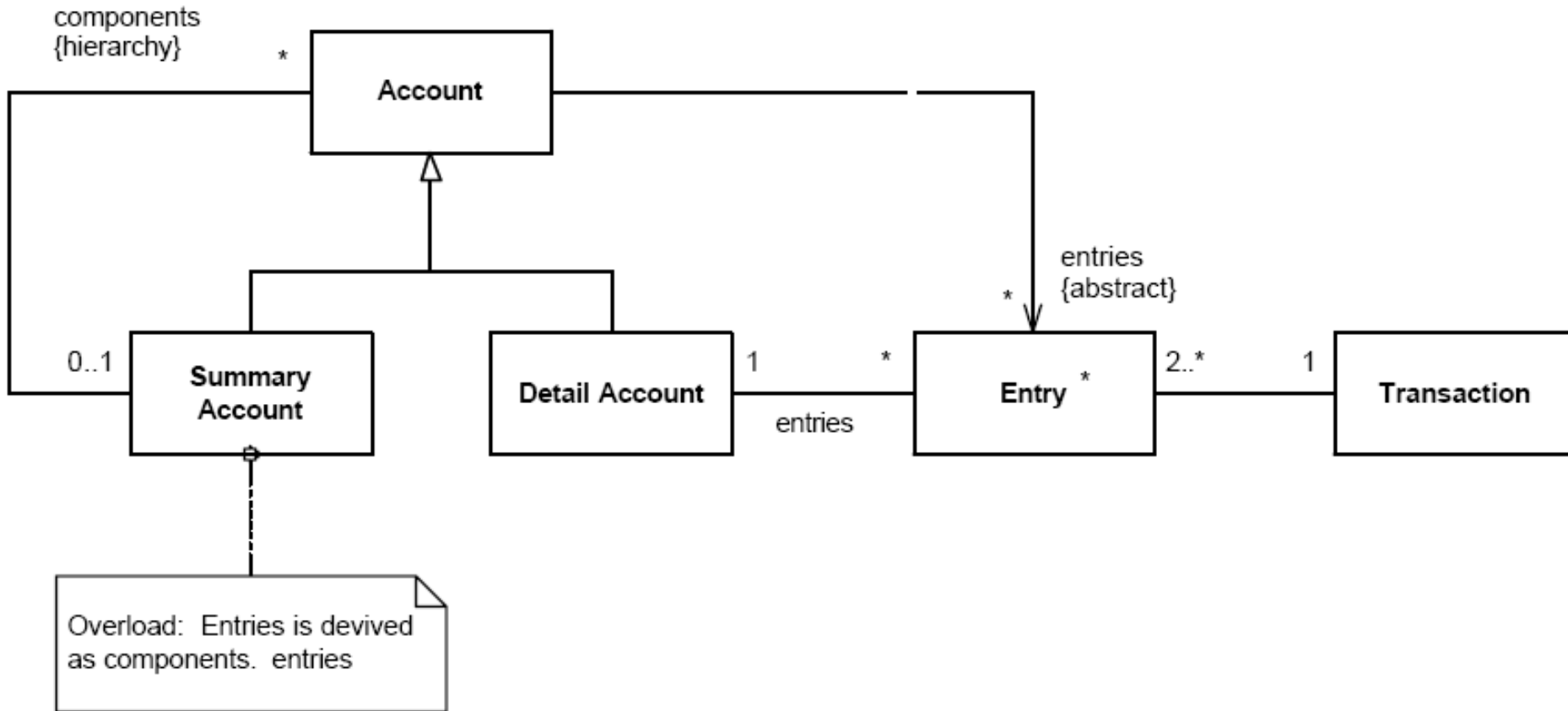
# Multiledged Transactions



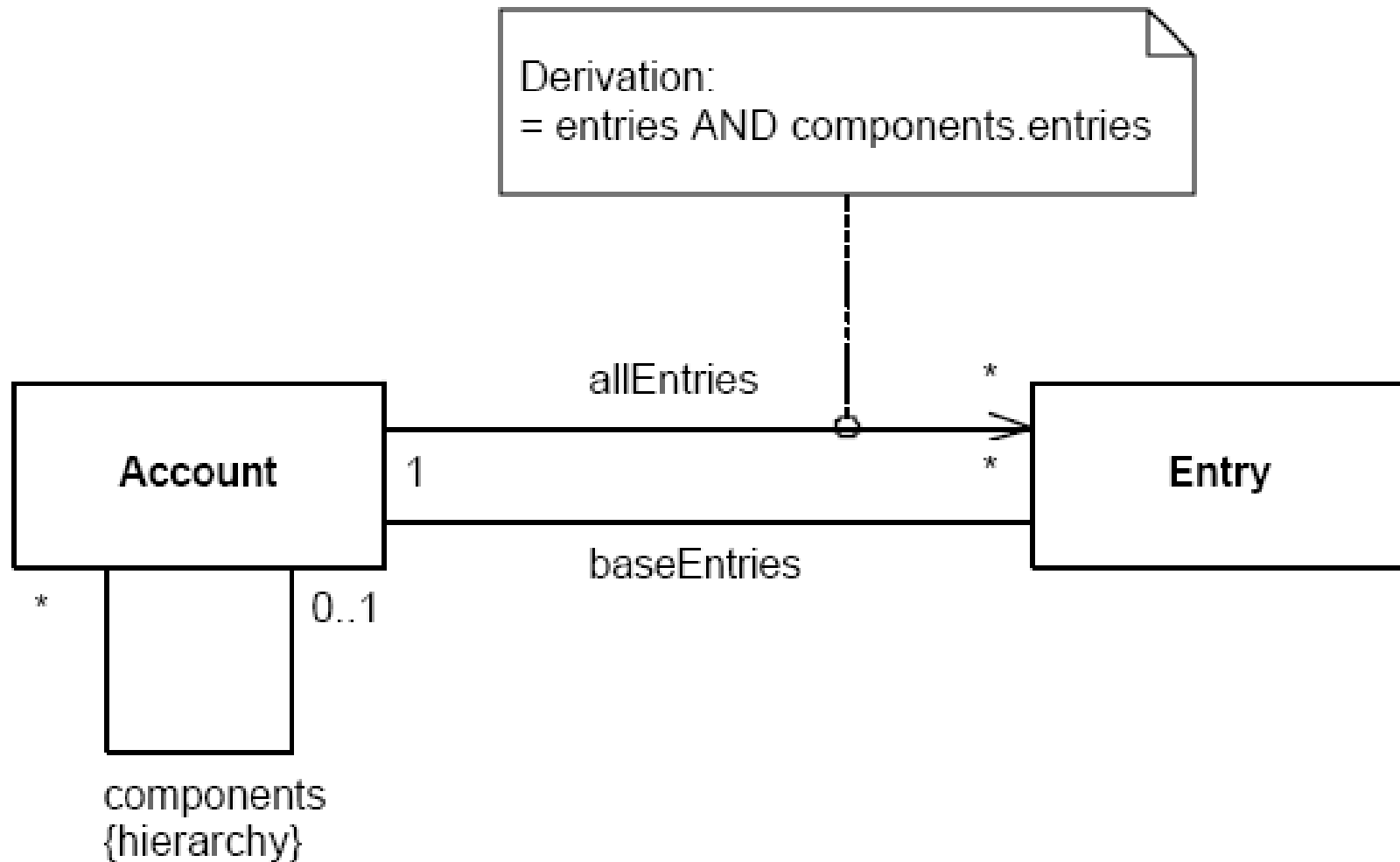
# 2-legged transaction without entries



# Summary and Detail Accounts

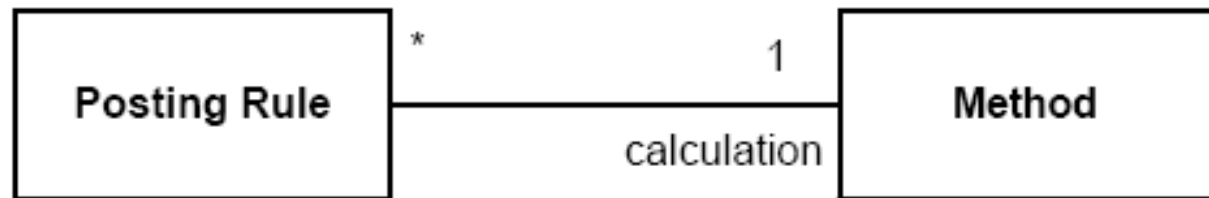
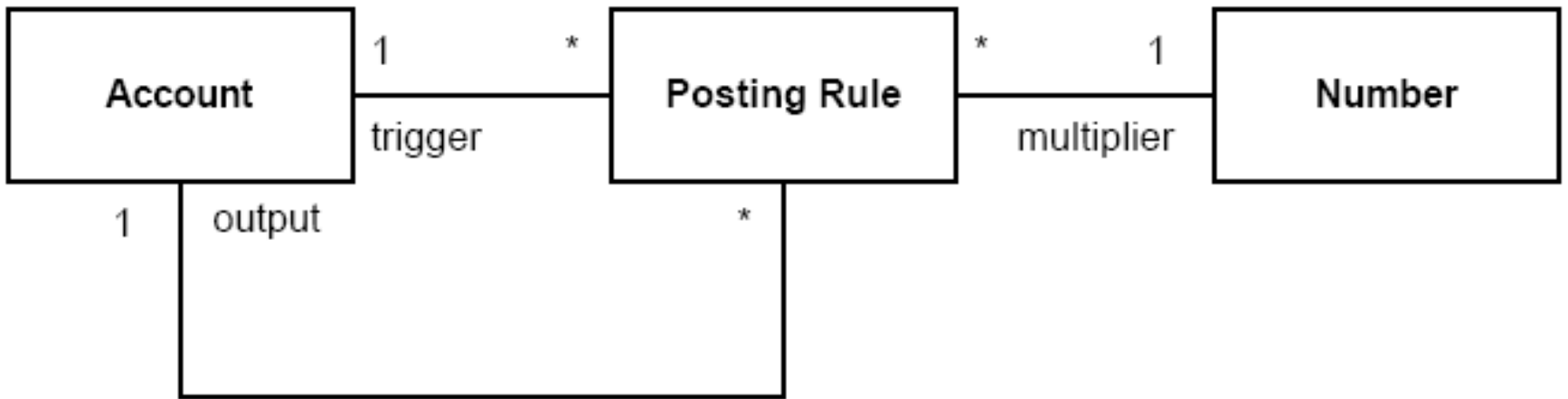


# Account hierarchies without separating summary and detail accounts

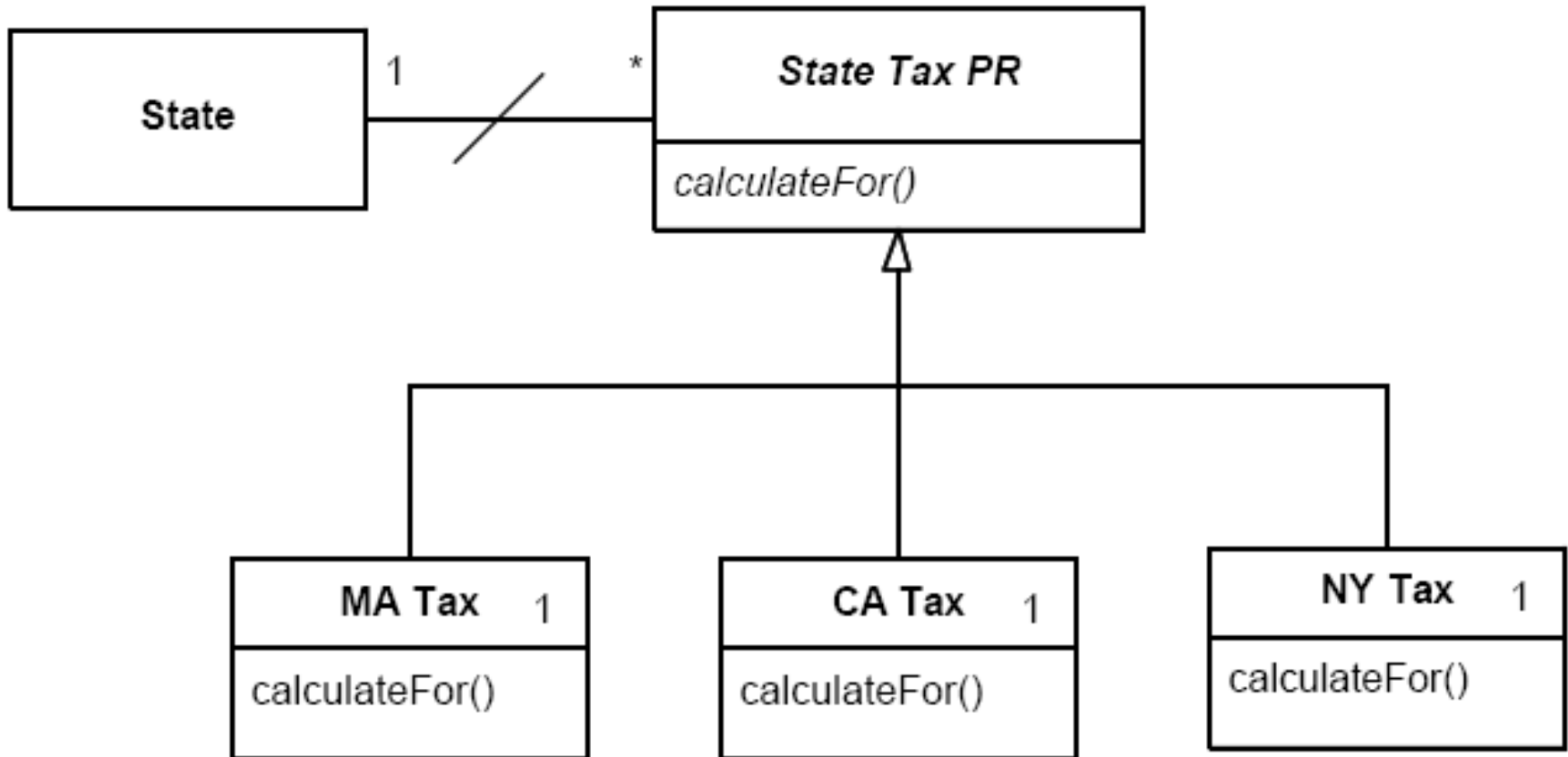




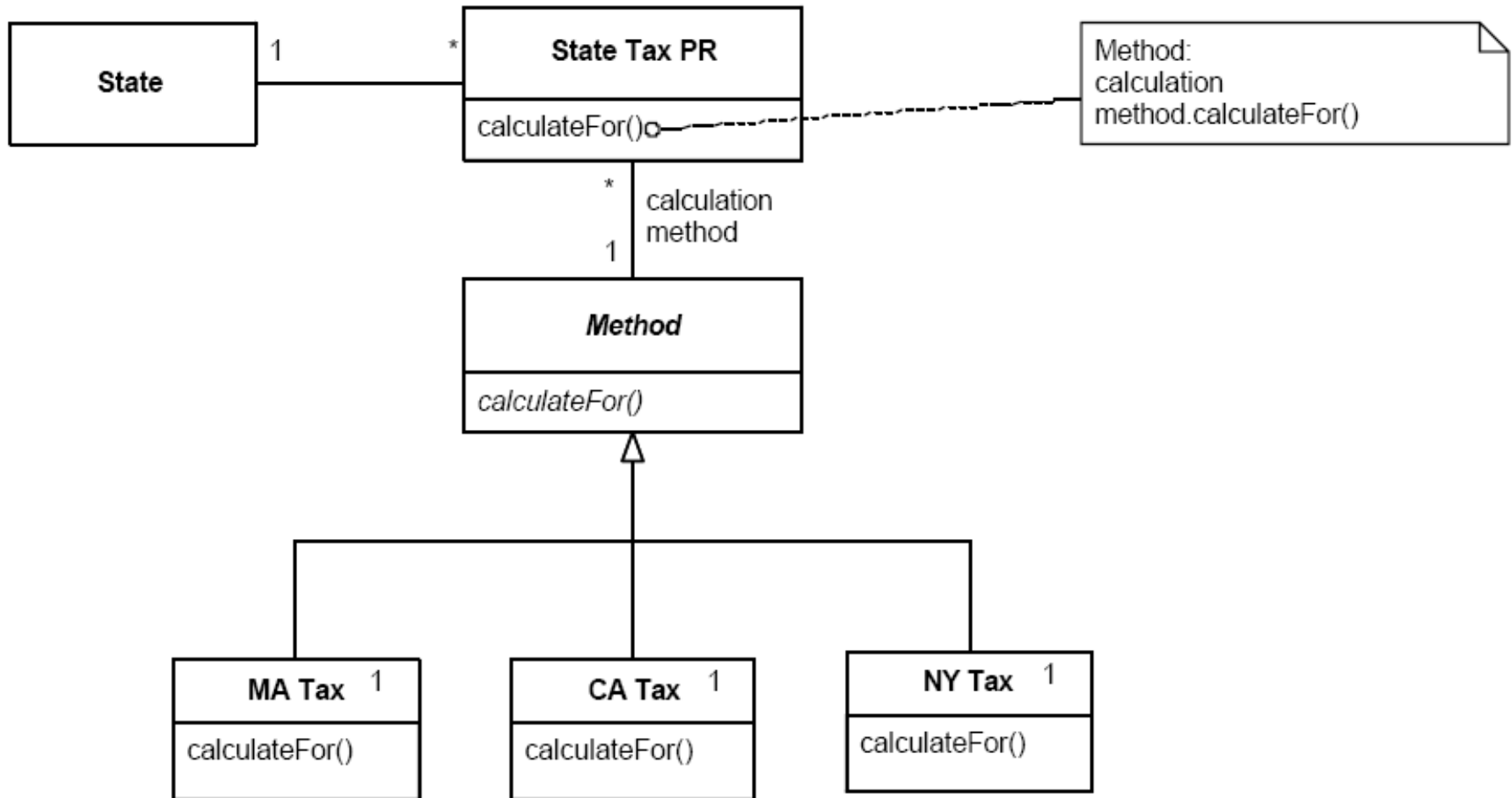
# Posting Rules Multiplied by a Factor or a method to calculate an entry



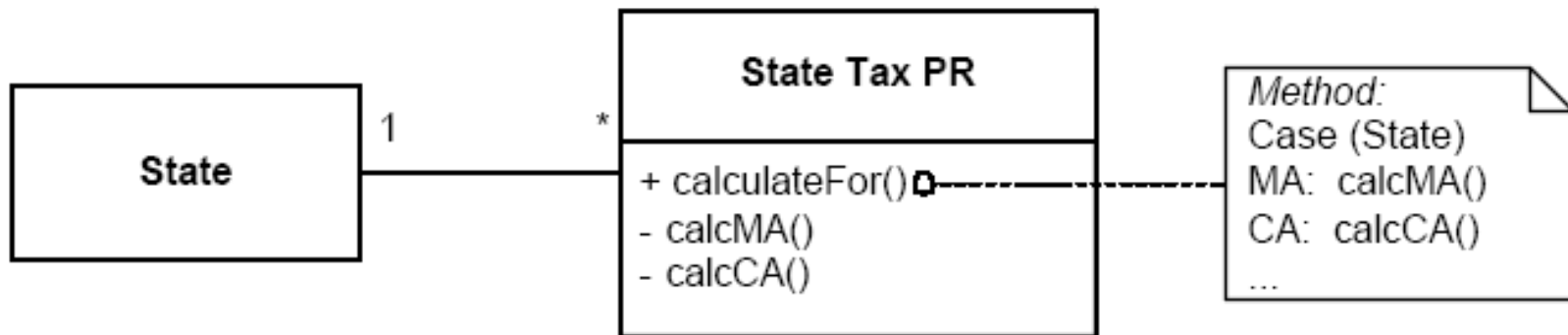
# Individual Instance Methods with Singletons



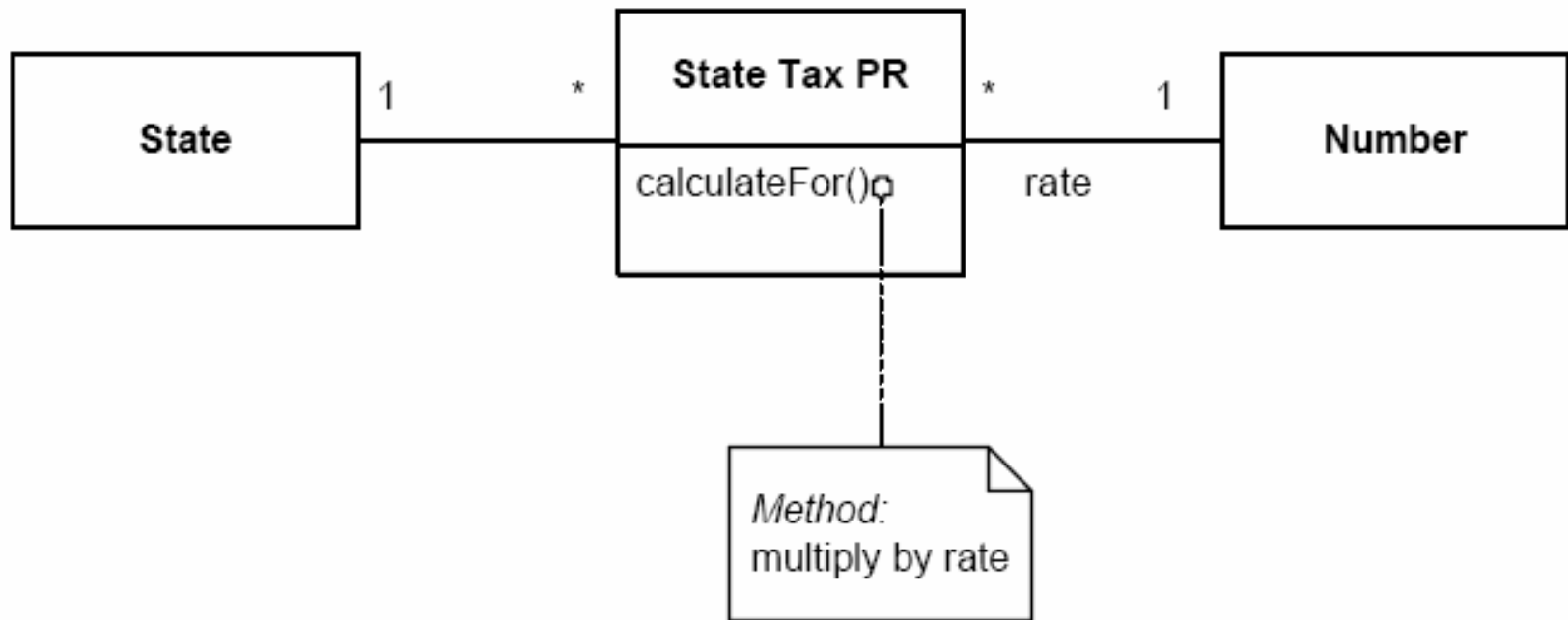
# Implementation with Strategy Pattern



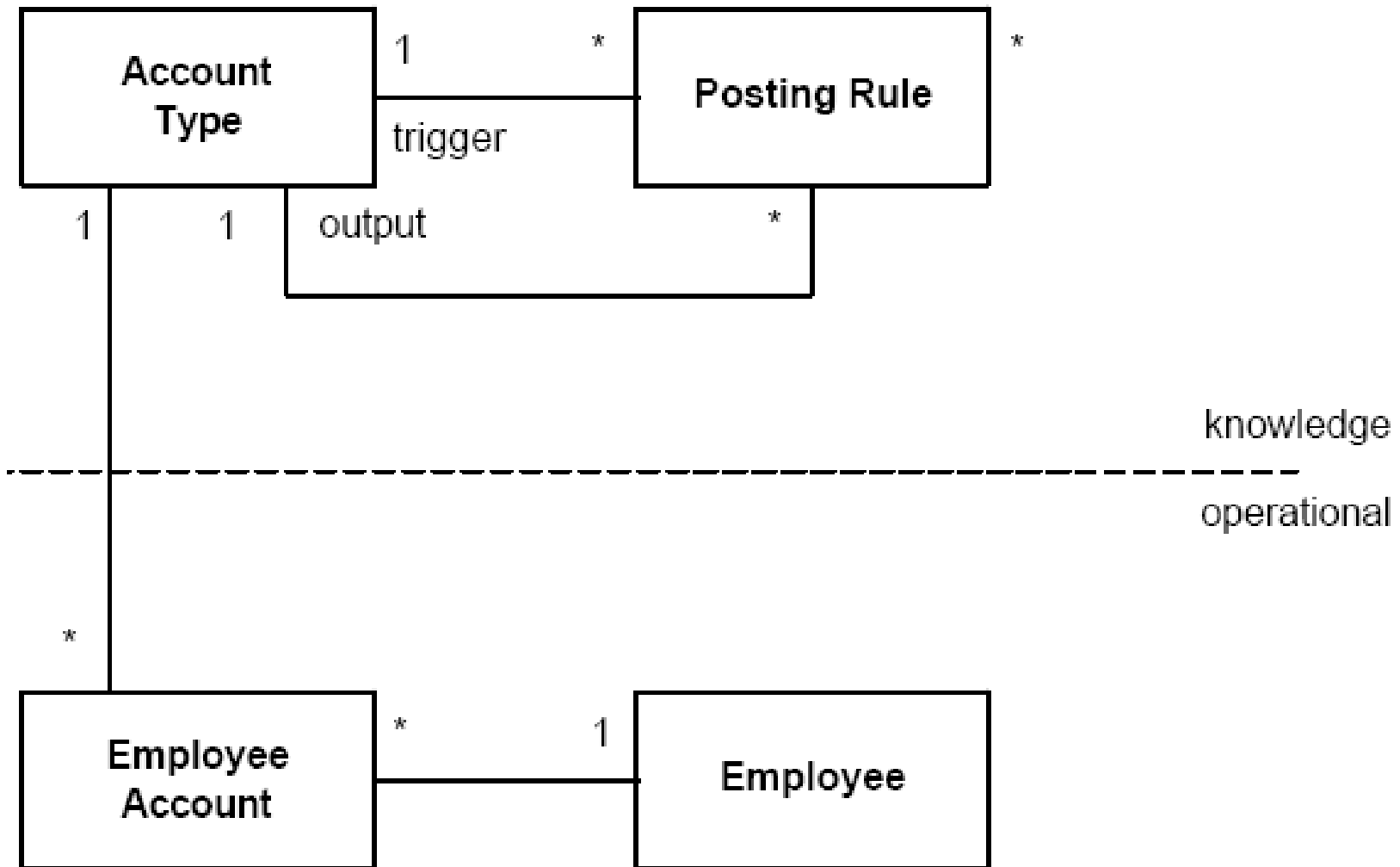
# Implementation with Internal Case Statement



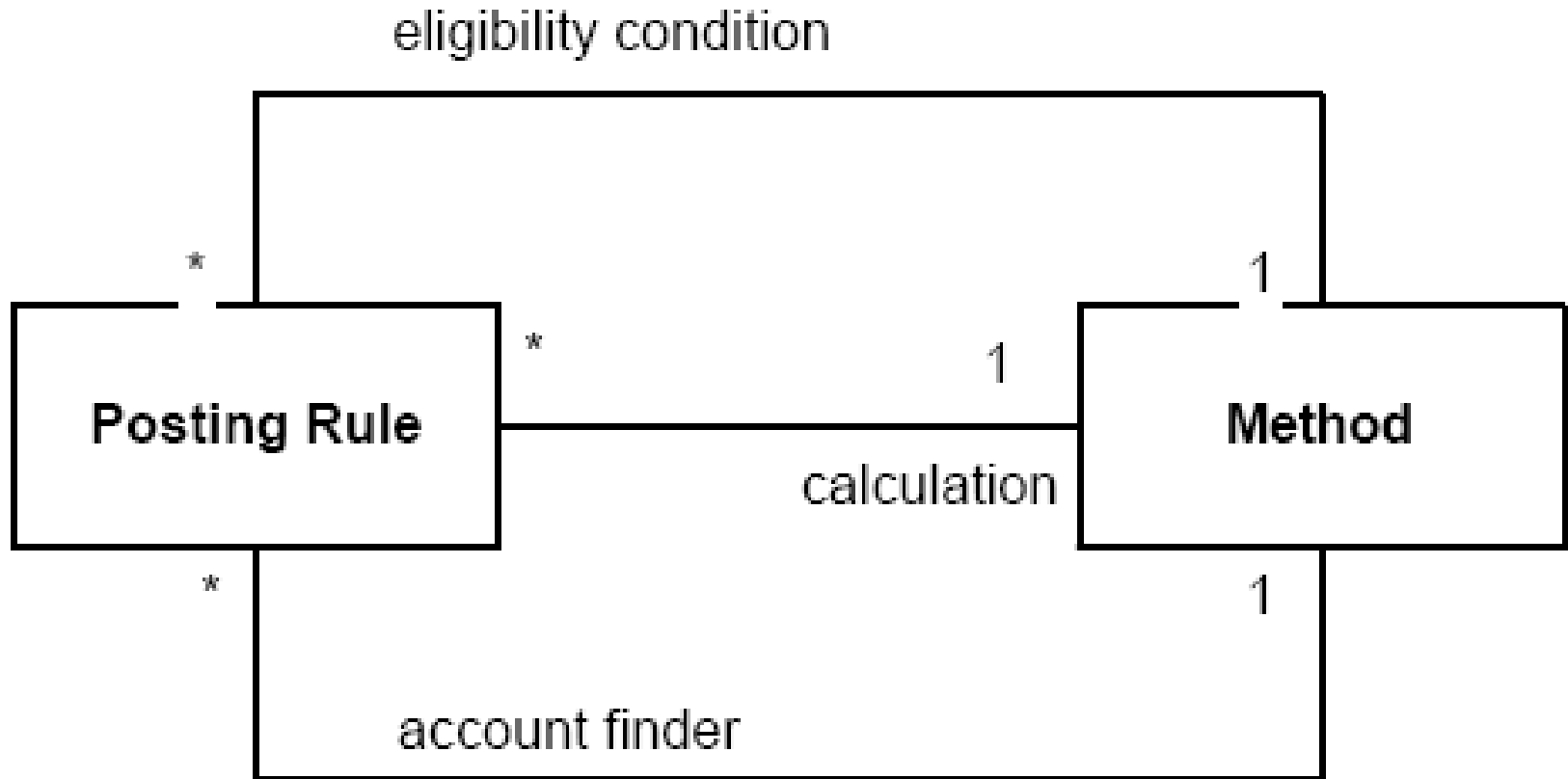
# Implementation with Parametrized Method



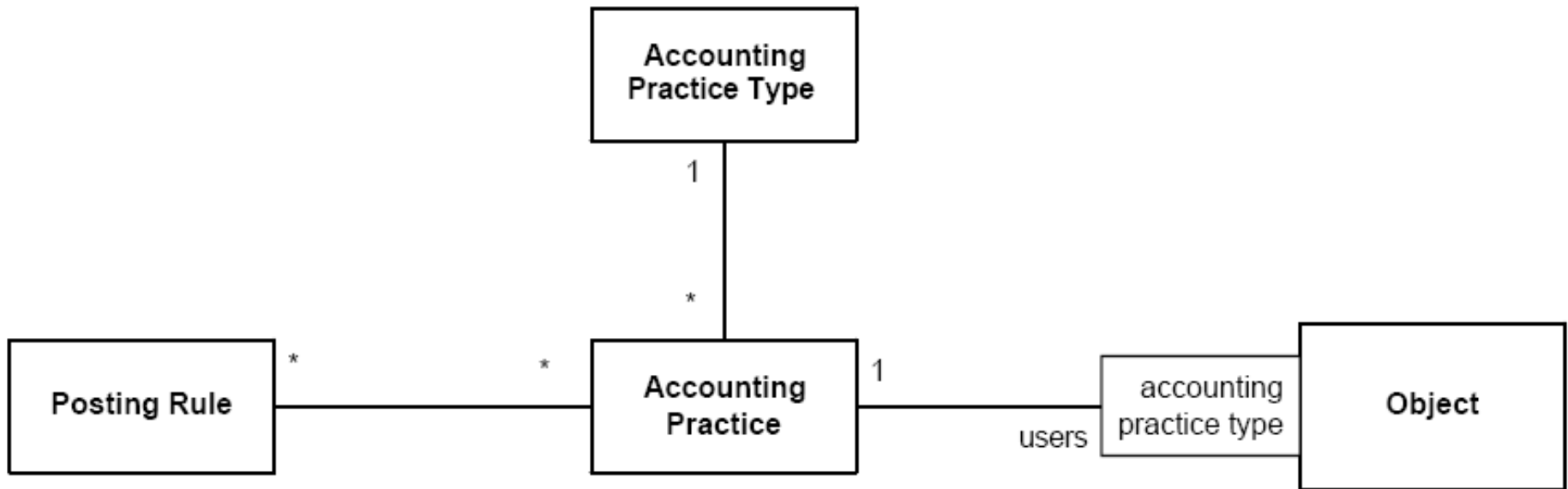
# Posting Rules for Many Accounts



# Account finder and Eligibility Conditions

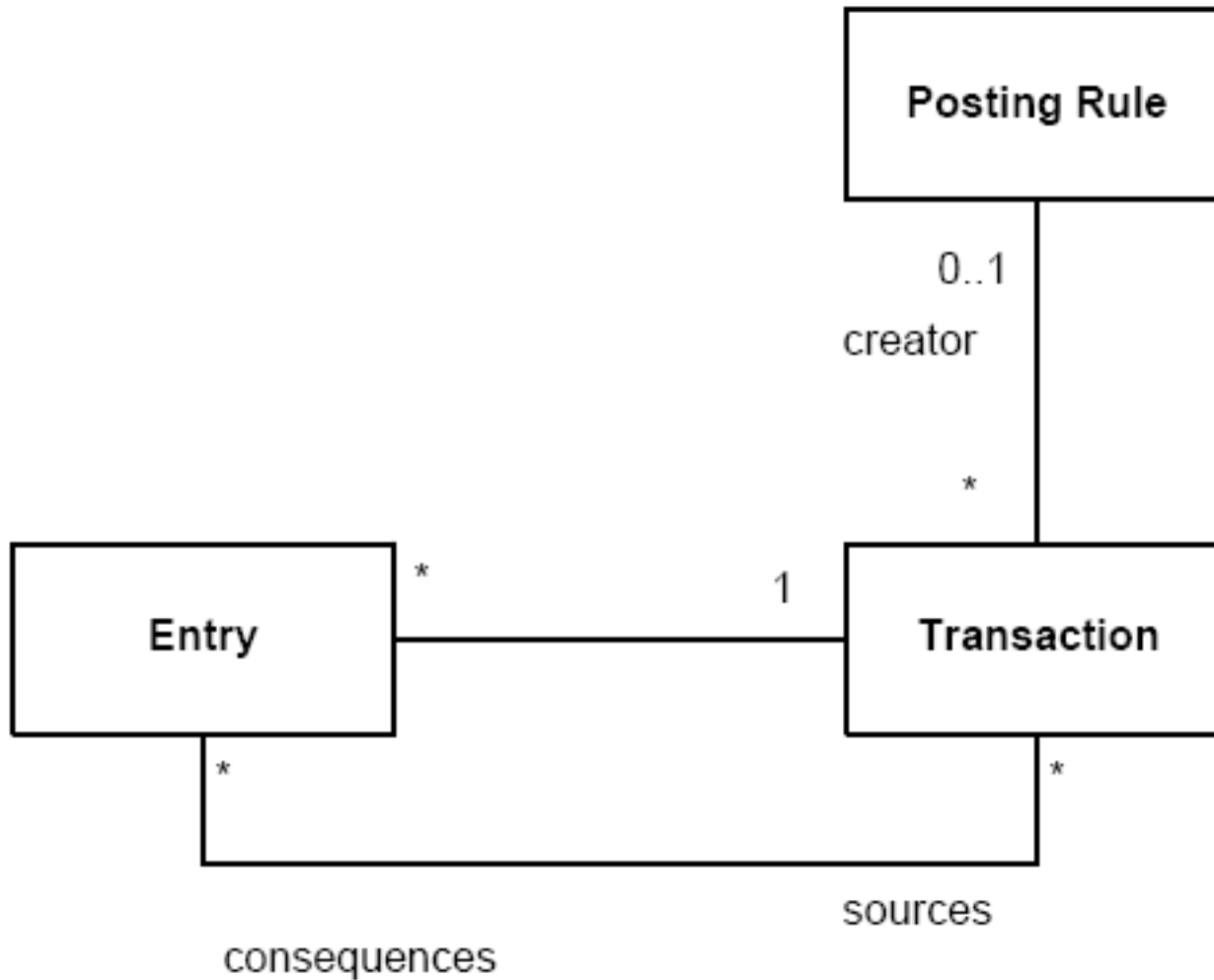


# Account Groups: Accounting Practices

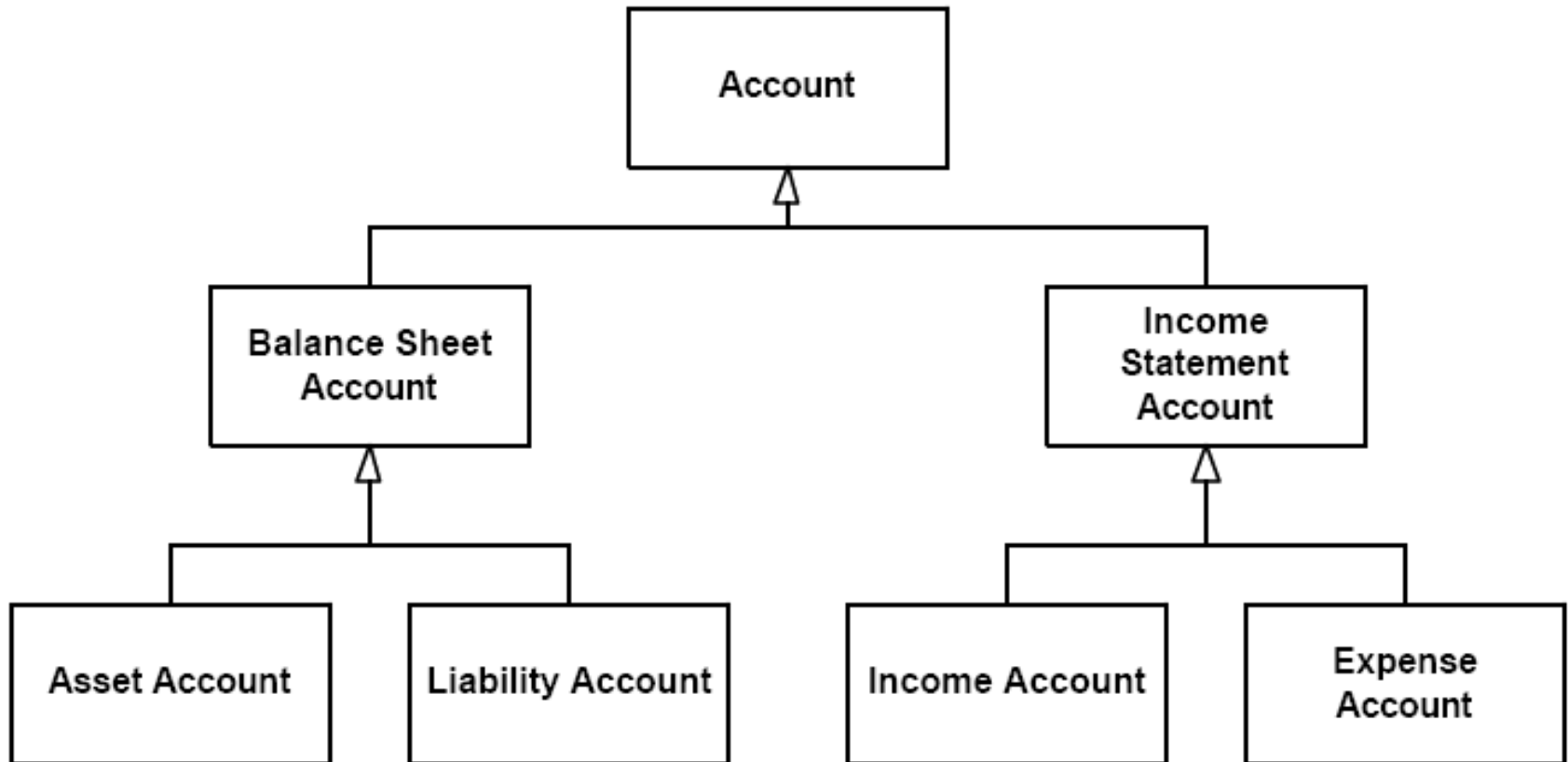




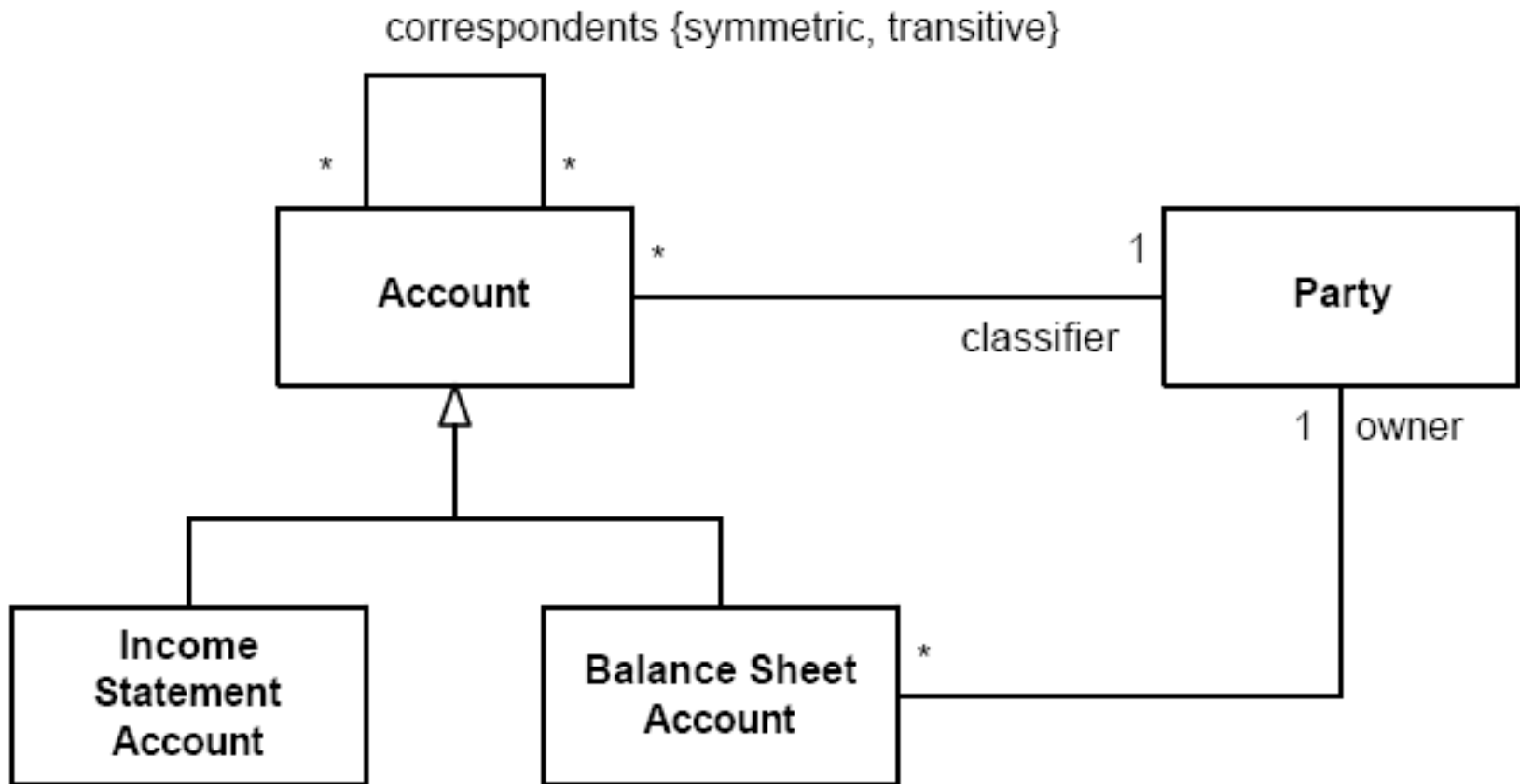
# Sources for Transactions



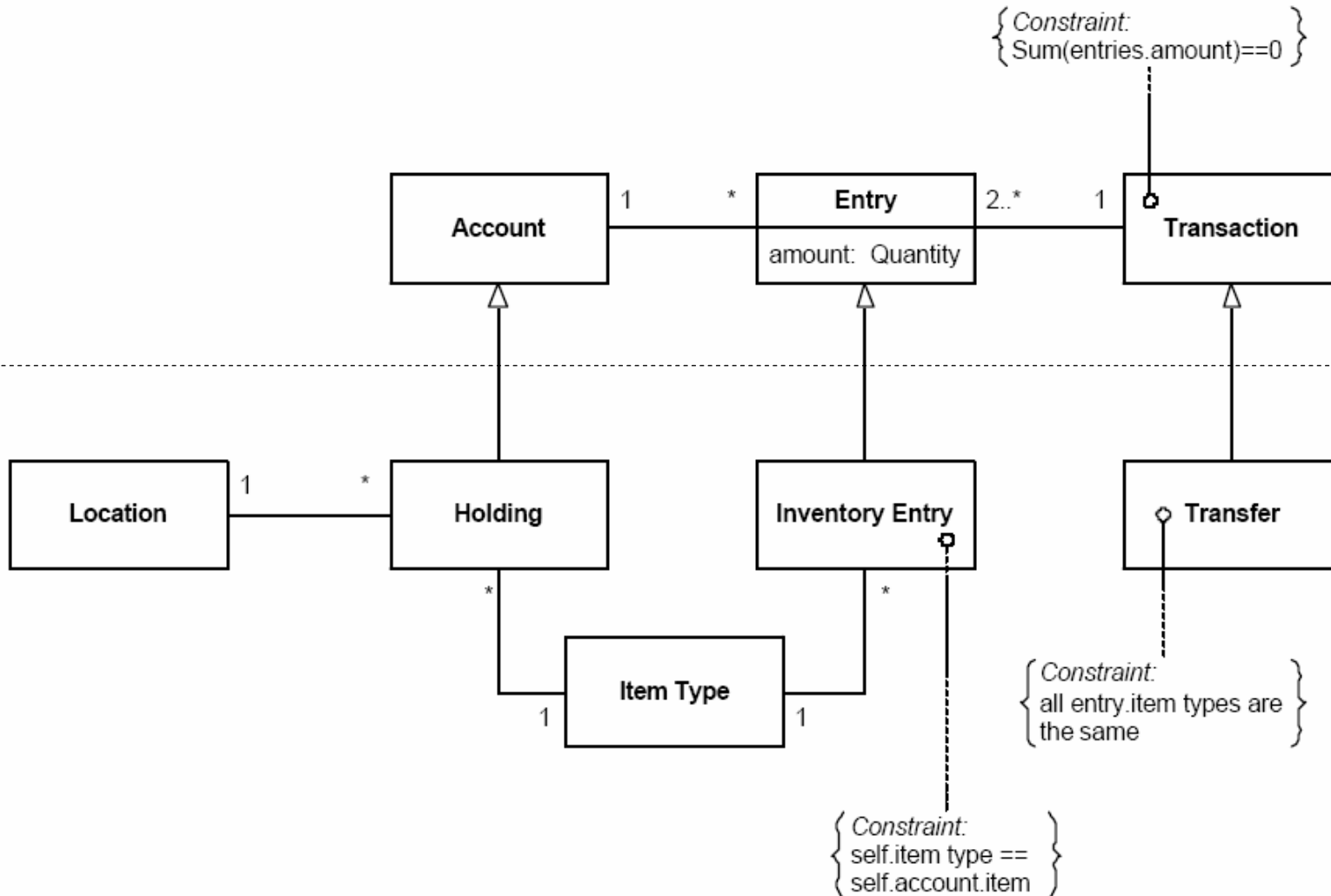
# Balance Sheet and Income Statement



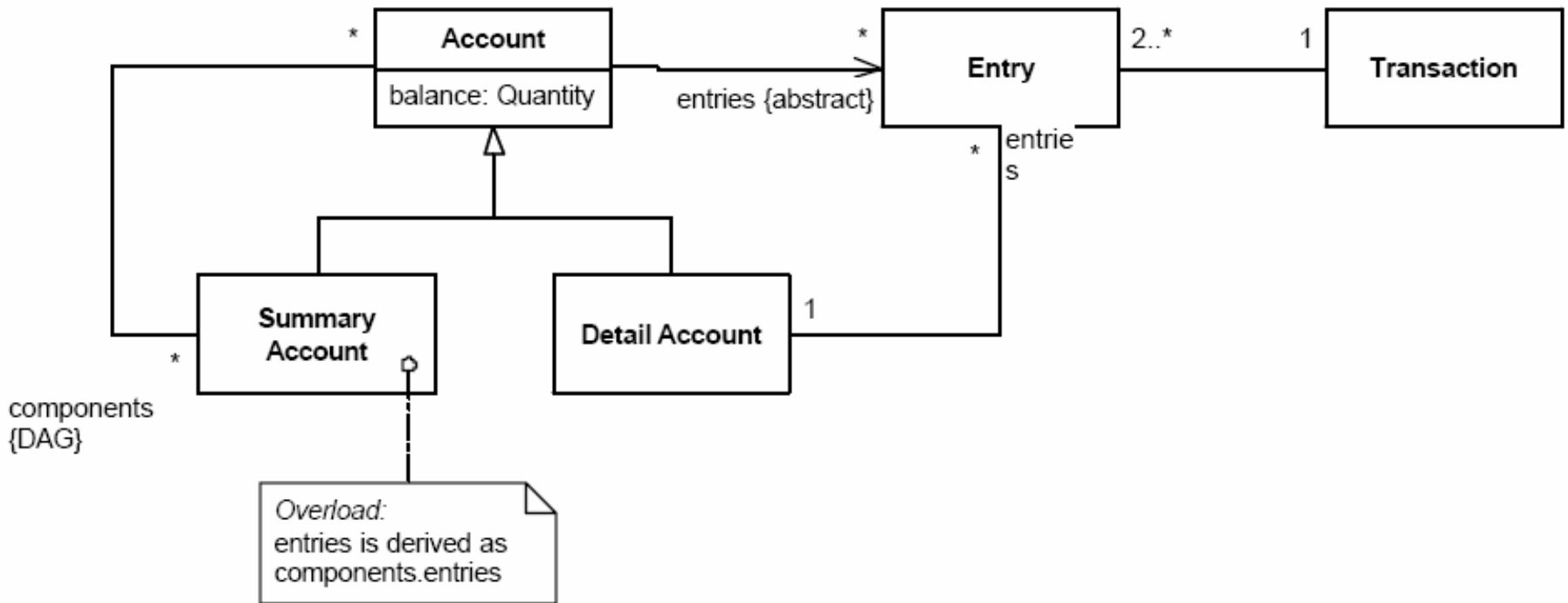
# Corresponding Accounts



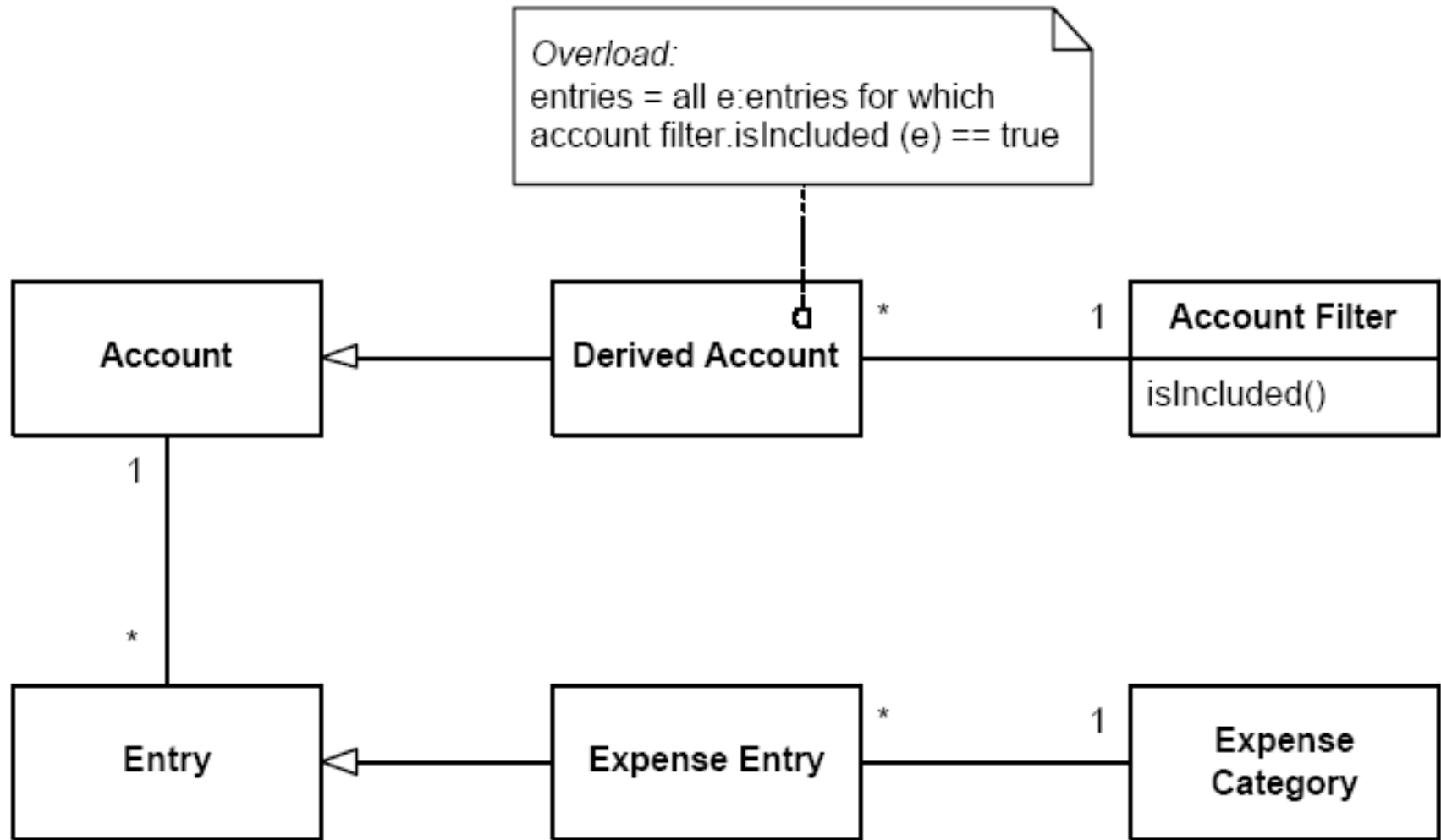
# Supporting Inventories



# Multiple Summary Accounts



# Derived Accounts



# Expenses to Abandon Accounting Model

