

In class activities

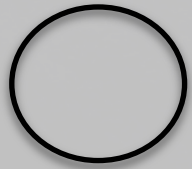
Units 1 and 2

Swim Lane Diagrams - 1

What is a swim lane diagram?

A type of process flow diagram that features divisions or "lanes." Each lane is assigned an actor (which may be an individual, department, division, group, machine, entity, and so on), or even a phase or stage in a process, that is responsible for the activity or work described in the lane.

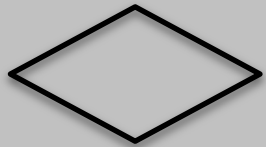
How to map a swim lane diagram



A circle signifies the **starting** and **ending** of an event in the process



A rectangle represents an **activity** in the process.



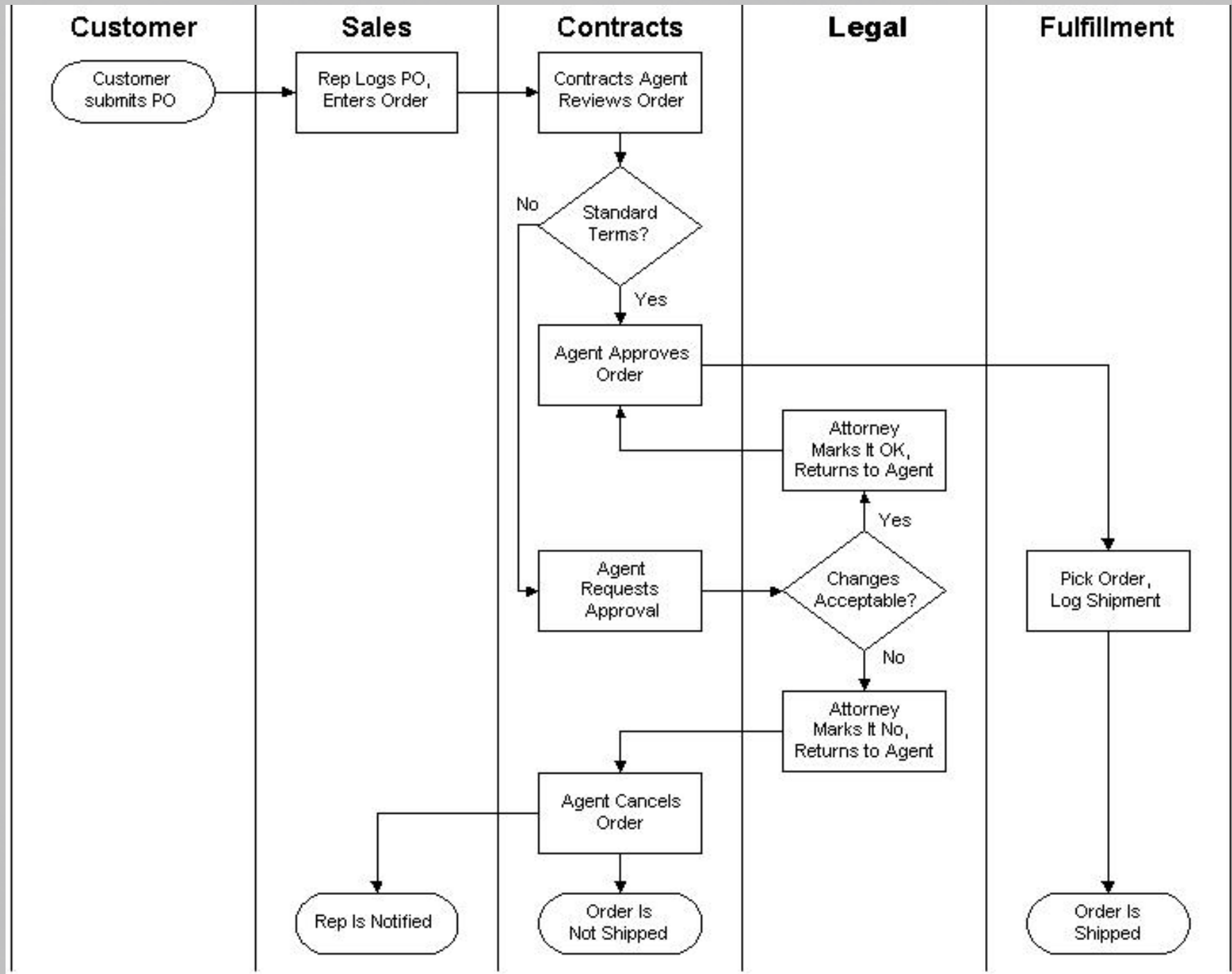
A diamond represents a **decision** that must be made.



Arrows indicate the **flow** of the process.



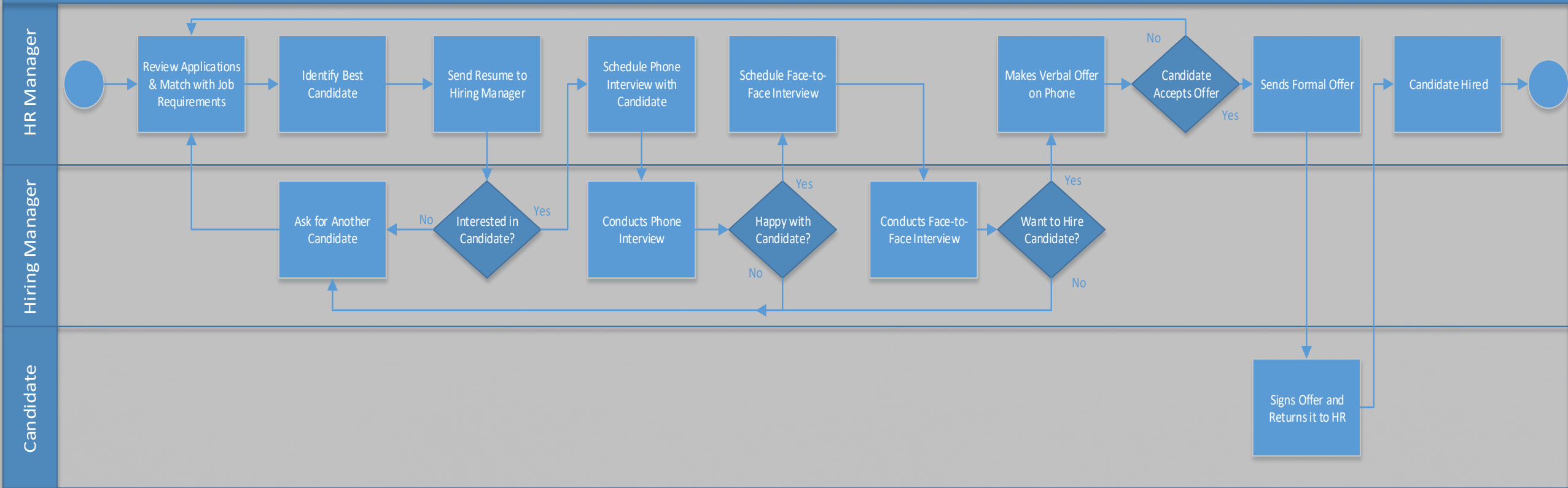
A cylinder represents **stored data**.



Solution to Activity

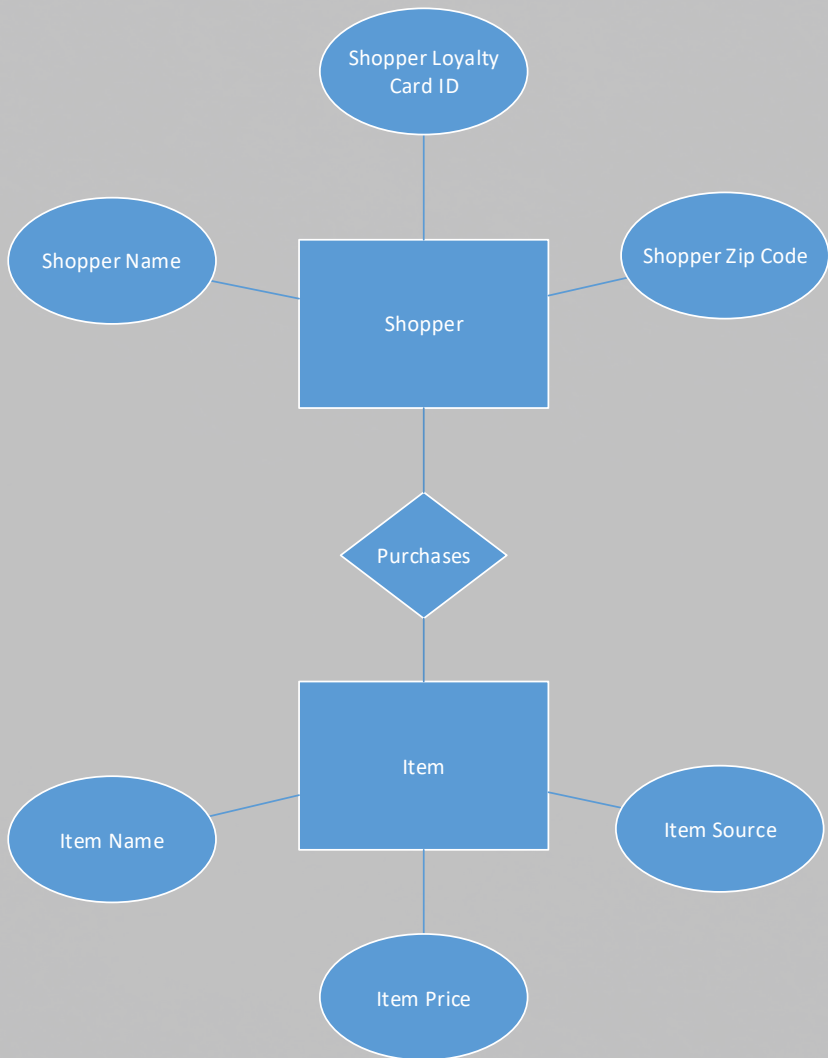
Systems Analysis: Process Decomposition with Swim Lane Diagrams - 1

Playwiki Financial Services – Hiring Process

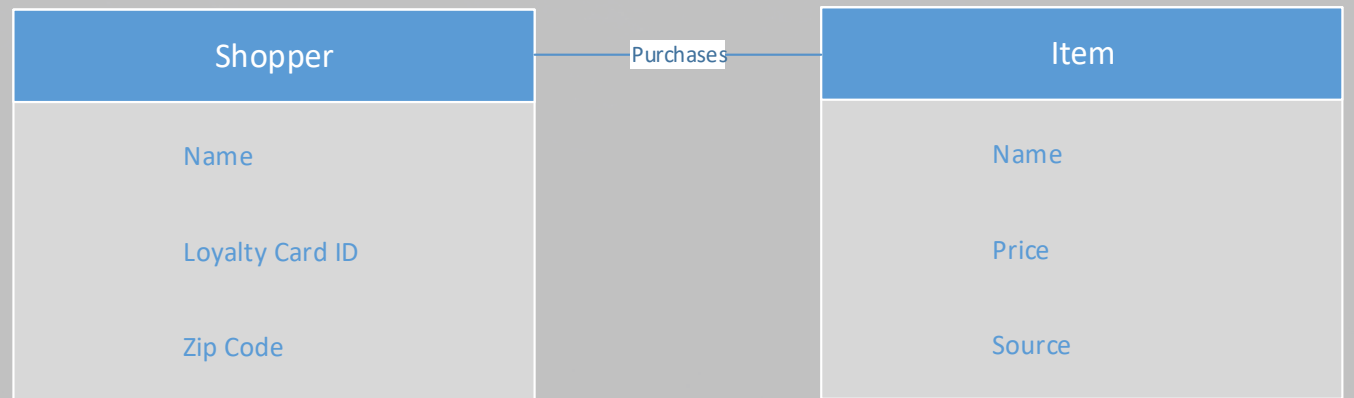


What is a entity relationship diagram?

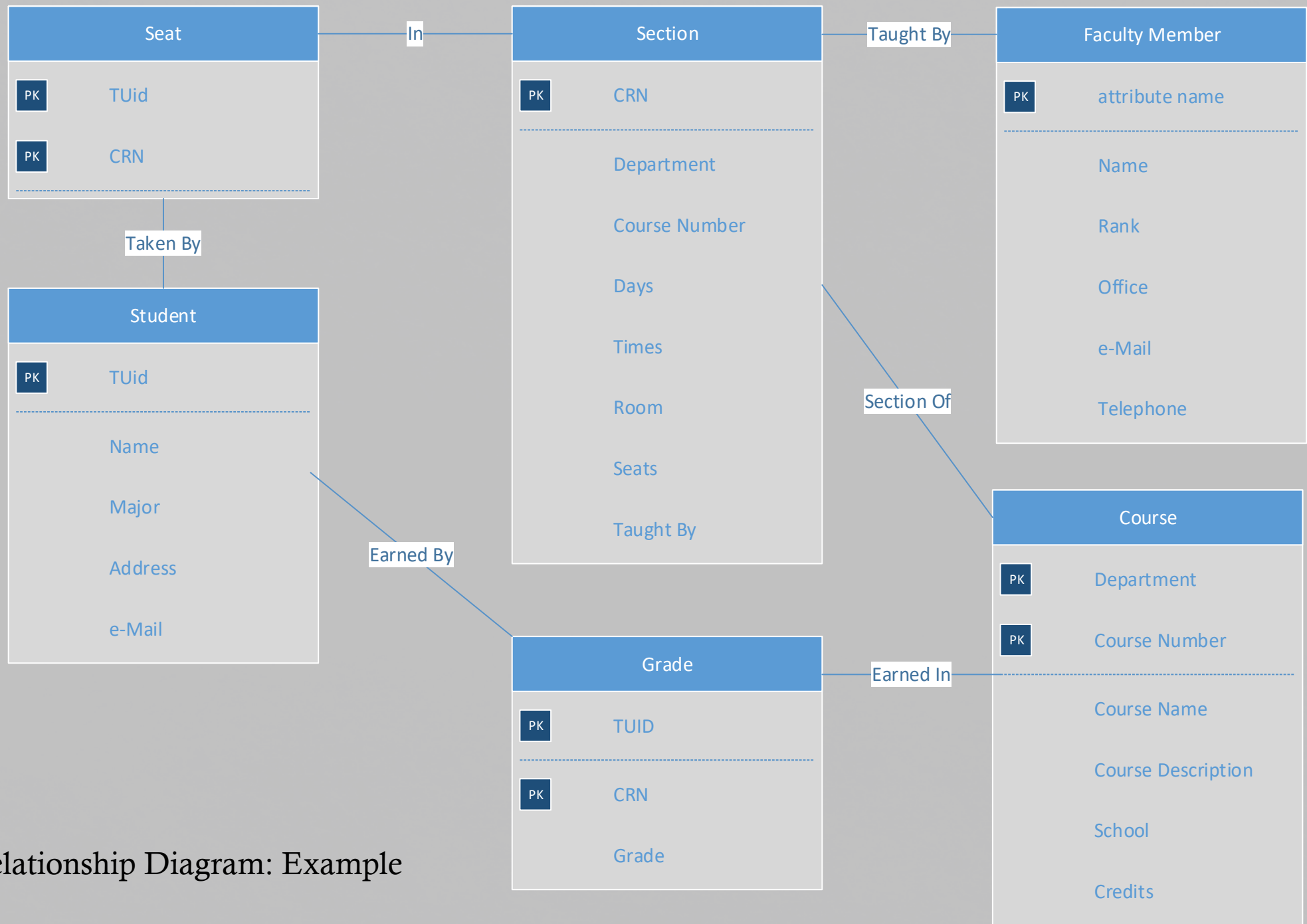
- ◆ An Entity Relationship Diagram (ERD) is a visual representation of different data using conventions that describe how these data are related to each other.



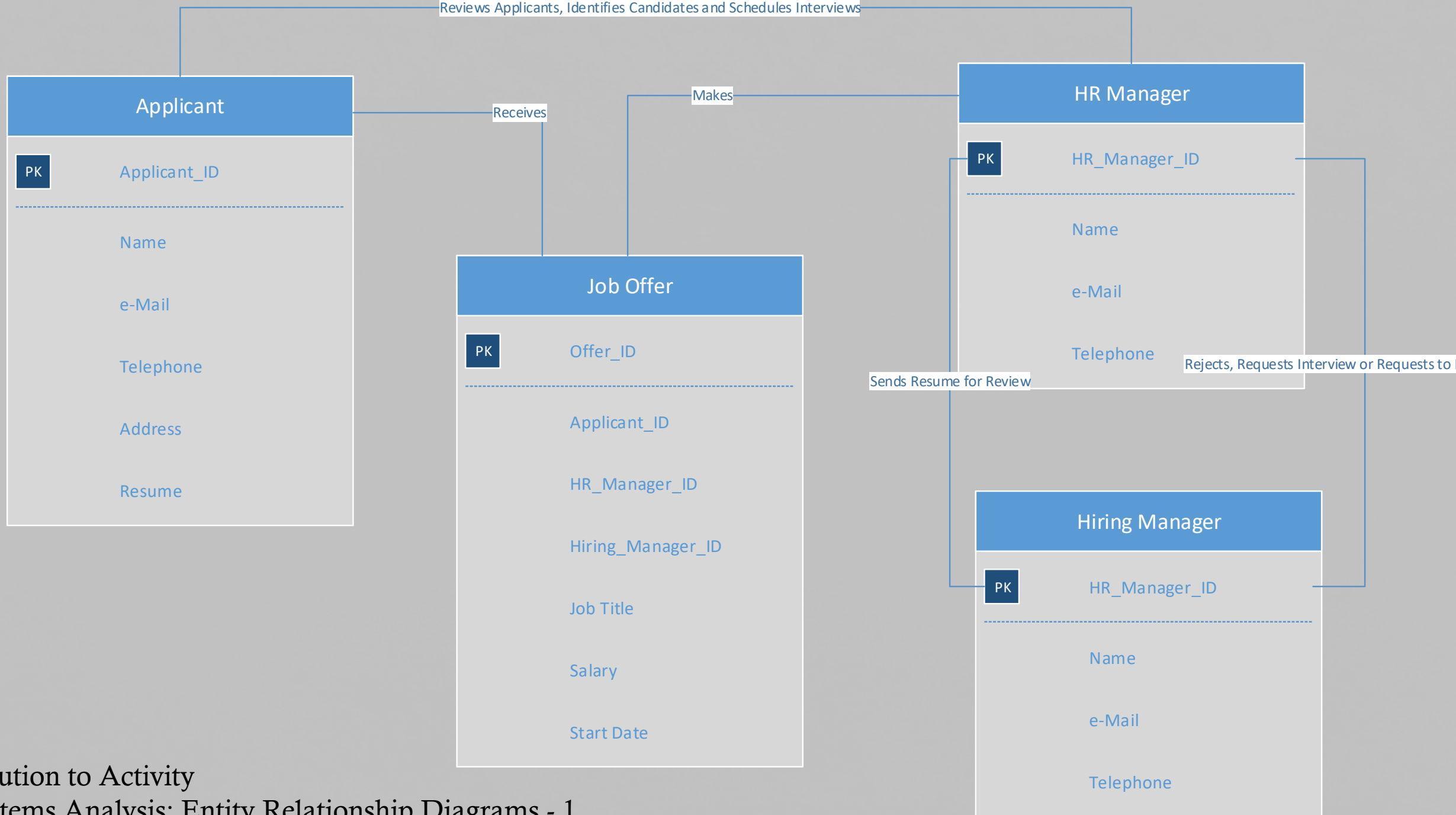
Chen's Database Notation

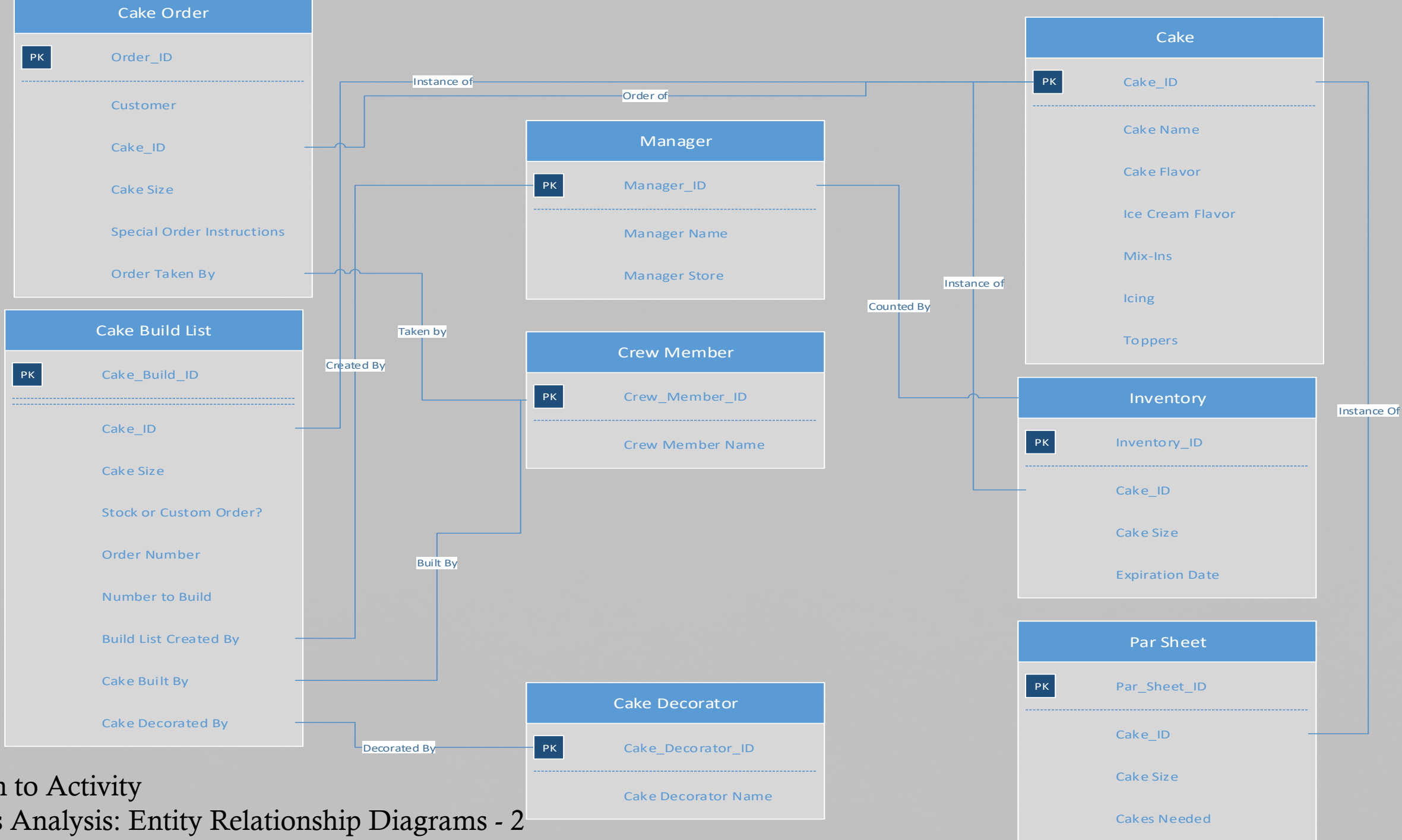


Crow's Foot Database Notation





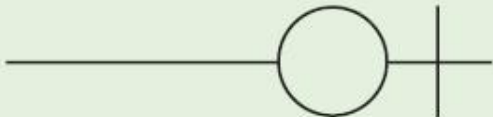
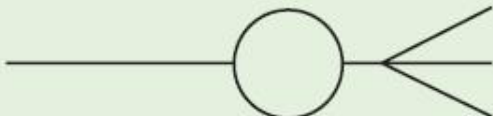
Entity Relationship Diagram: Example





Solution to Activity
 Systems Analysis: Entity Relationship Diagrams - 2

Crow's foot notation

Symbol	Meaning
	One – Mandatory
	Many – Mandatory
	One – Optional
	Many – Optional