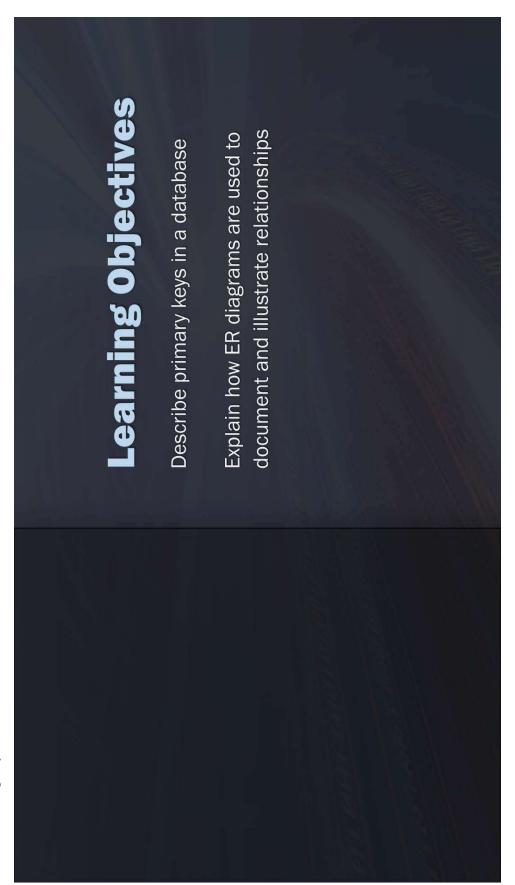
Slide 1: Data Models Part 3: Relational vs. Transactional Models



Slide 2: Learning Objectives



Slide 3: Learning Objectives



# Relational vs. Transactional Model

## Relational Model

Transactional Model

Allows for easy querying and data manipulation in an easy, logical and intuitive way

Operational database – insurance claims within a healthcare database

# Data Model Building Blocks

#### Entity:

Person, place thing or event Distinguishable, unique, and distinct

#### Attribute:

A characteristic of an entity

### Relationship:

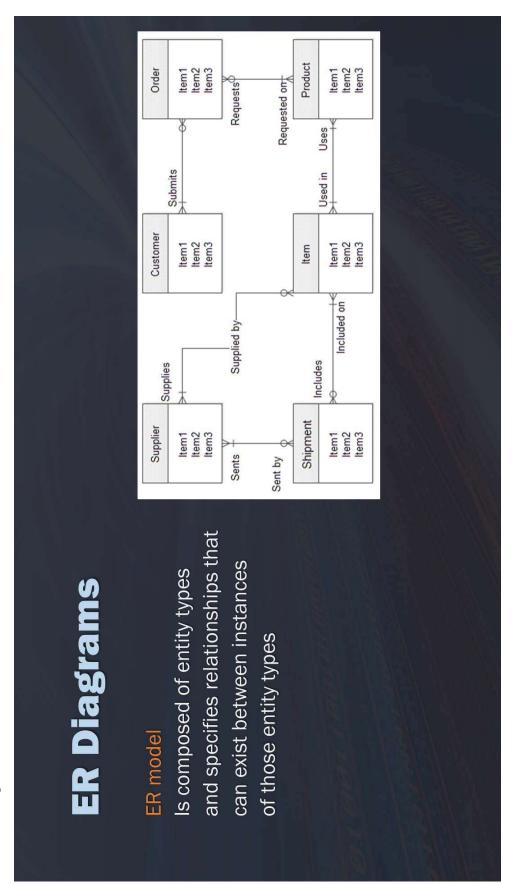
Describes association among entities

- One-to-many
- Many-to-many
- One-to-one

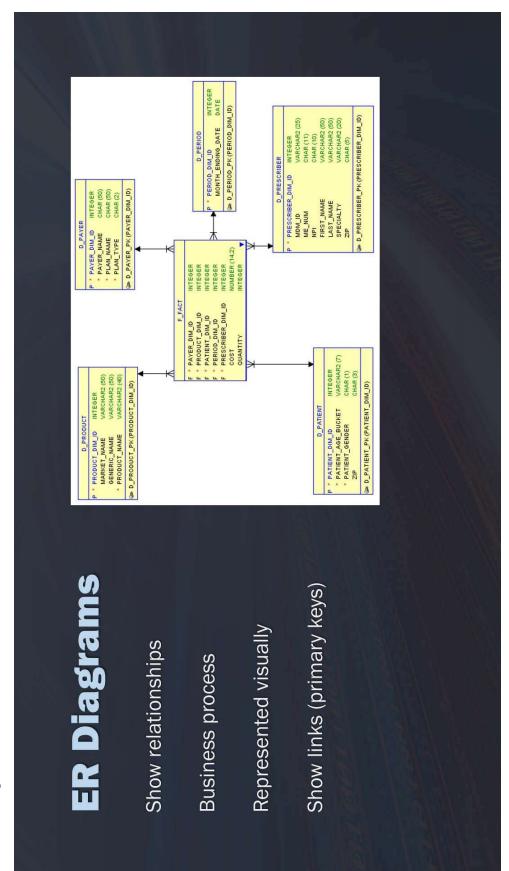
Slide 6: Data Model Building Blocks



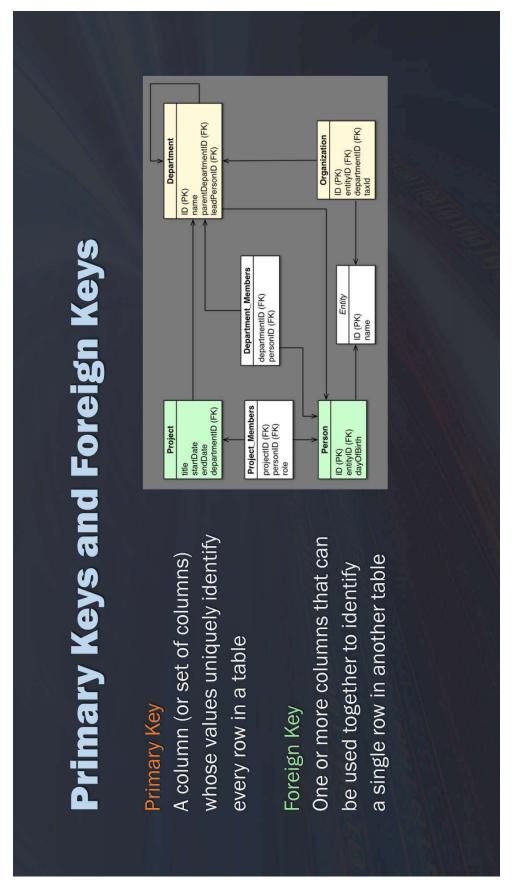
Slide 7: ER Diagrams



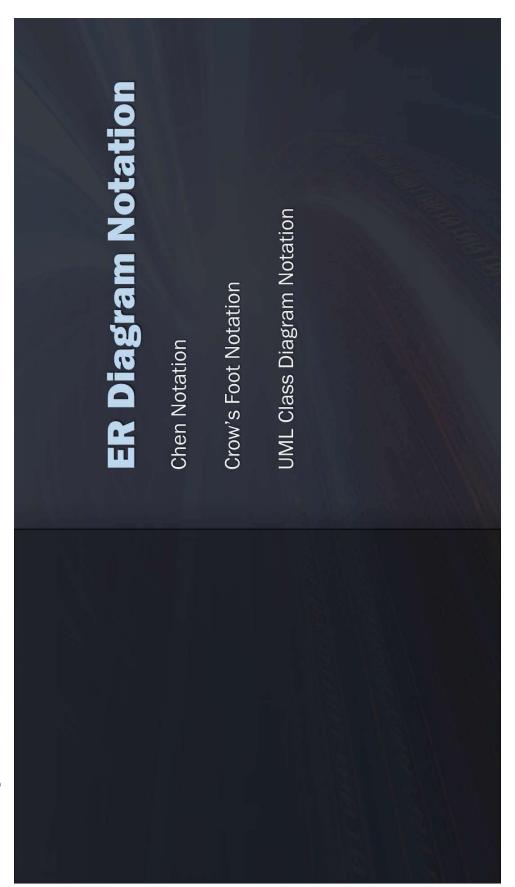
Slide 8: ER Diagrams



Slide 9: Primary Keys and Foreign Keys



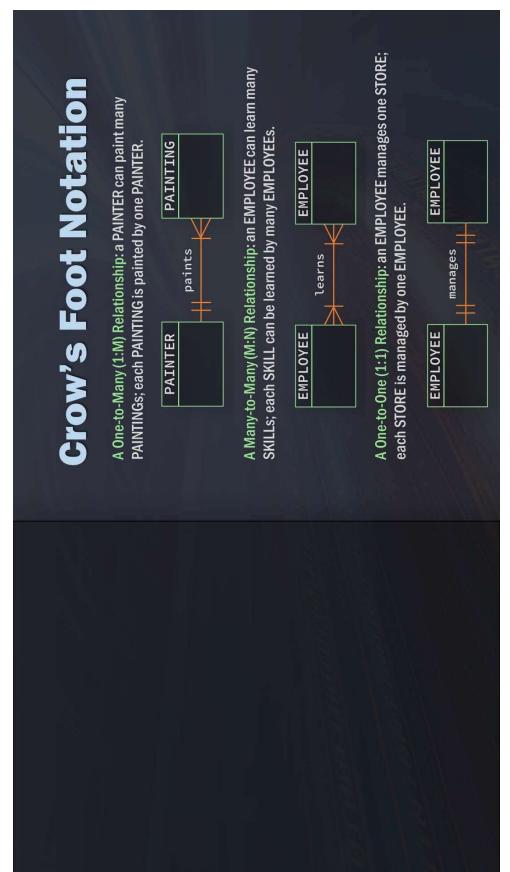
Slide 10: ER Diagram Notation



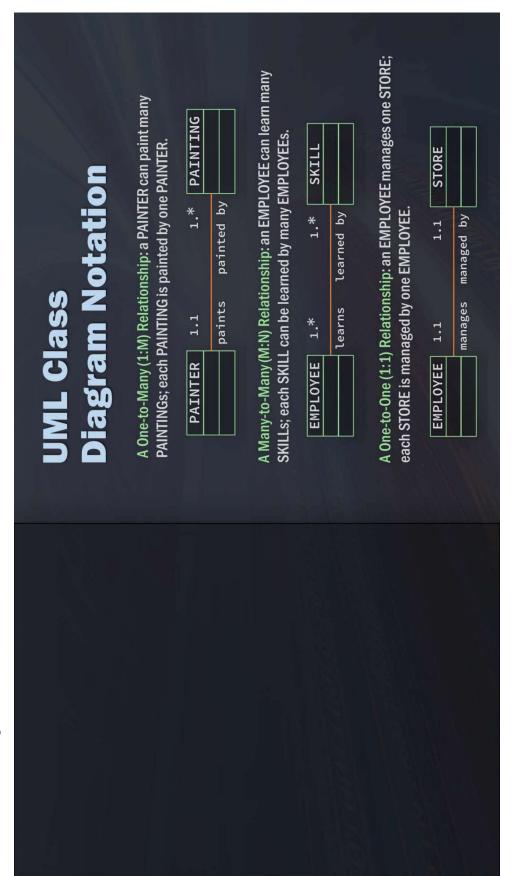
Slide 11: Chen Notation



Slide 12: Crow's Good Notation



Slide 13: UML Class Diagram Notation



Slide 14: ER Diagram Notation

