



Module 2

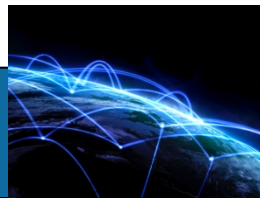
Introduction to Databases and DBMSs

Lesson 1: Database Characteristics



Lesson Objectives

- Define basic terminology and database characteristics
- Provide an example of a databases



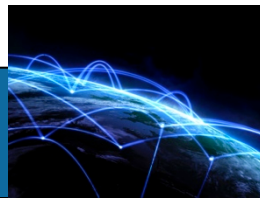
Motivation

- Databases crucial for daily operations and decision making in organizations
- Database management technology
 - Major part of software industry
 - Revolutionary evolvement over 40 years
 - Foundation for management of long term memory of organizations
- Vibrant field with employment opportunities



Initial Vocabulary

- Data: raw facts about things and events
- Information: transformed data that has value for decision making
- Essential to organize data for retrieval and maintenance

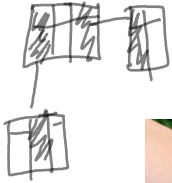


Database Characteristics



last longer than
computer memory

Persistent



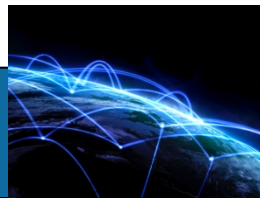
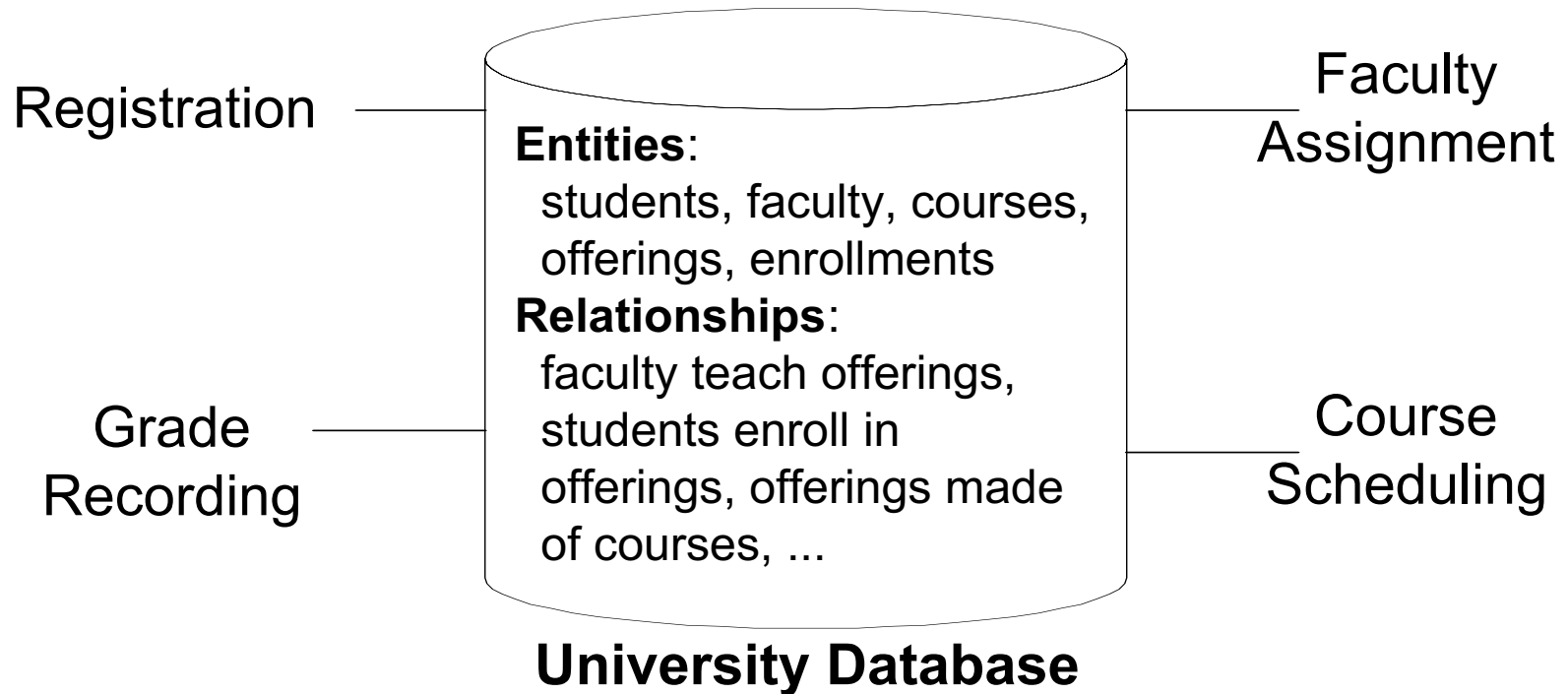
Inter-related



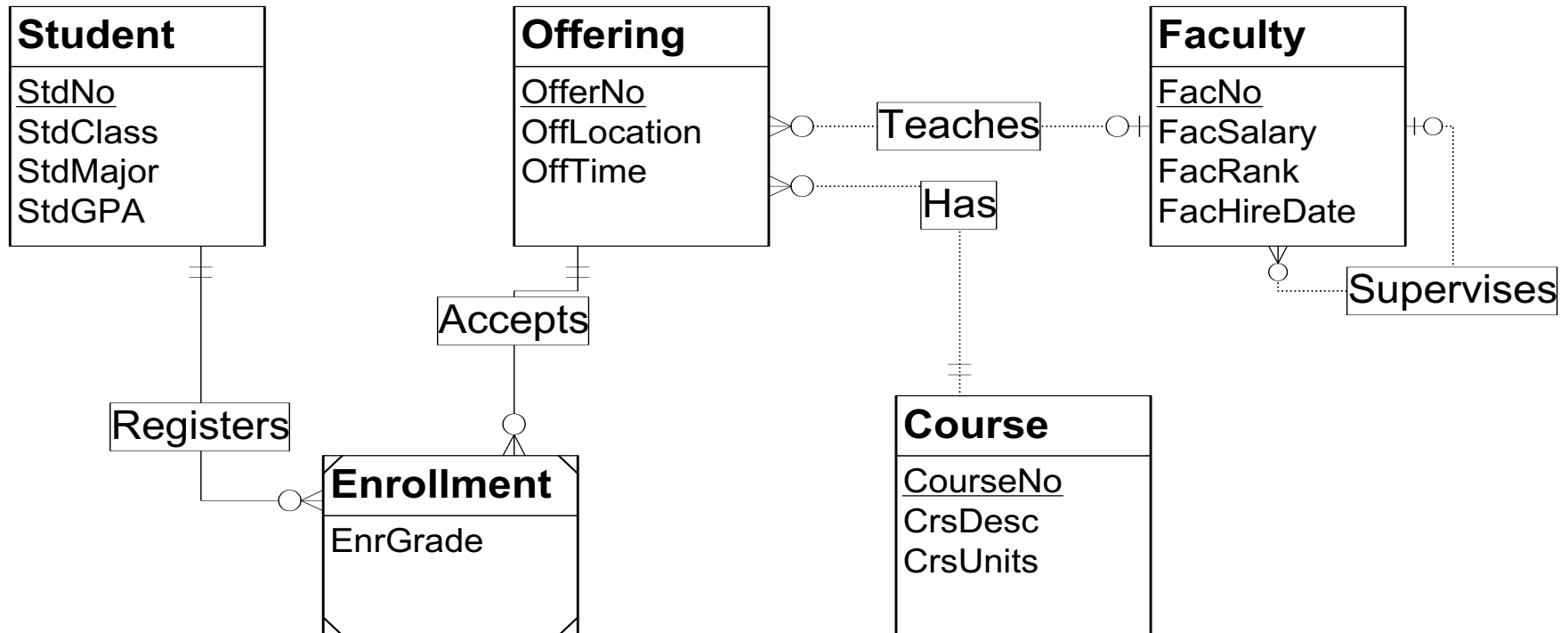
Shared



University Database



University Database (ERD)



Summary

- Databases and database technology vital to modern organizations
- * • Database technology supports daily operations and decision making - Dw
- Emphasize structured data
- Essential characteristics of shared, inter-related, and persistent

