



Business School  
UNIVERSITY OF COLORADO DENVER

Information Systems Program

# 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



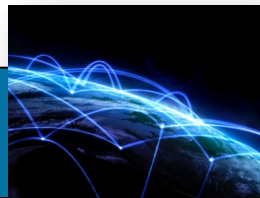
# Motivation

- 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



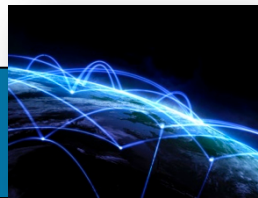
Persistent



Inter-related

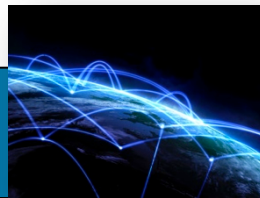
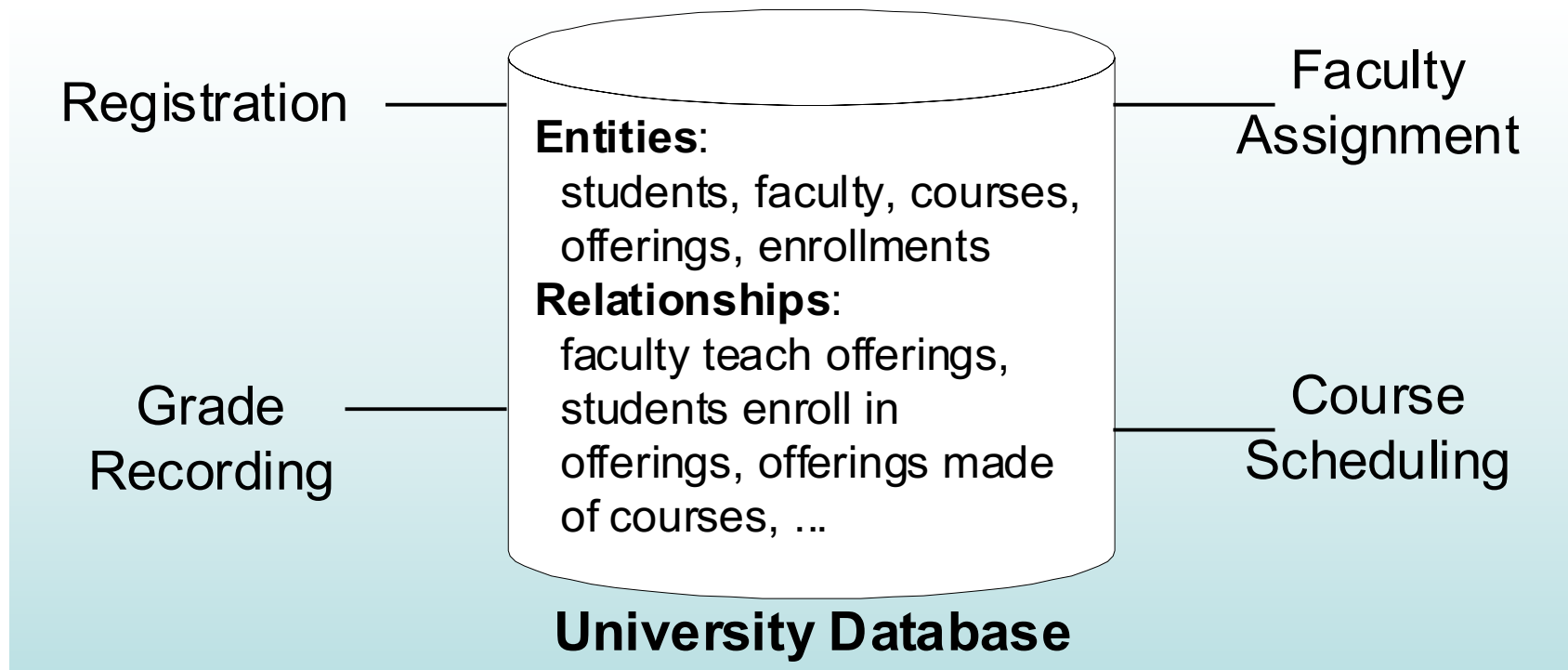


Shared

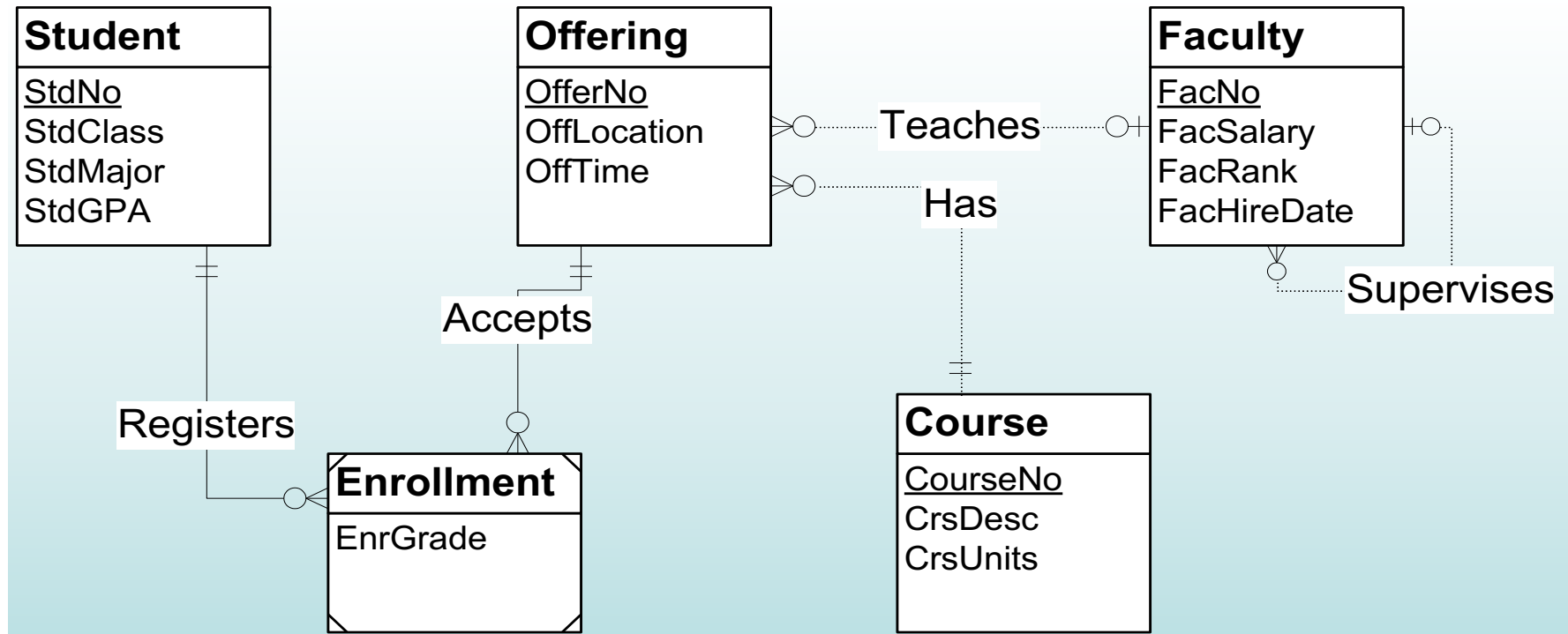




# University Database



# University Database (ERD)



# Summary

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

