

Module 3 Relational Data Model and CREATE TABLE Statement

Lesson 2: Integrity Rules



Lesson Objectives

- Identify 1-M relationships and associated PKs and FKs
- Find errors in rows with either orphan FKs or missing FKs
- Identify situations for FK requirements
 - FK is necessary
 - FK can have the null value





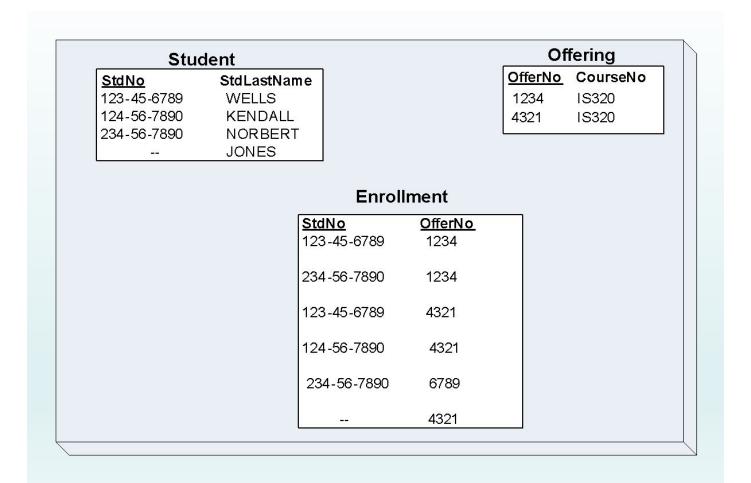
Integrity Rules

- Entity integrity: primary keys
 - Each table has column(s) with unique values
 - No missing values for primary keys
 - Ensures traceable entities
- Referential integrity: foreign keys
 - Values of a column in one table match values from a source table
 - Ensures valid references among tables





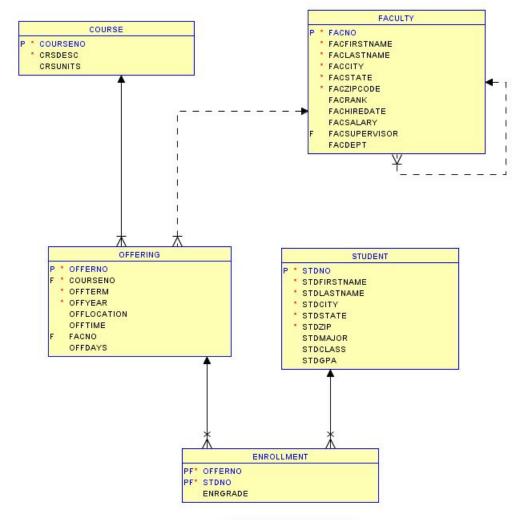
Integrity Rule Violations







Oracle Relational Diagram







Summary

- Identify primary keys and foreign keys
- Visualize relationships
- Understanding existing databases is crucial to query formulation

