Practices for Lesson 11: Normalizing Your Data Model
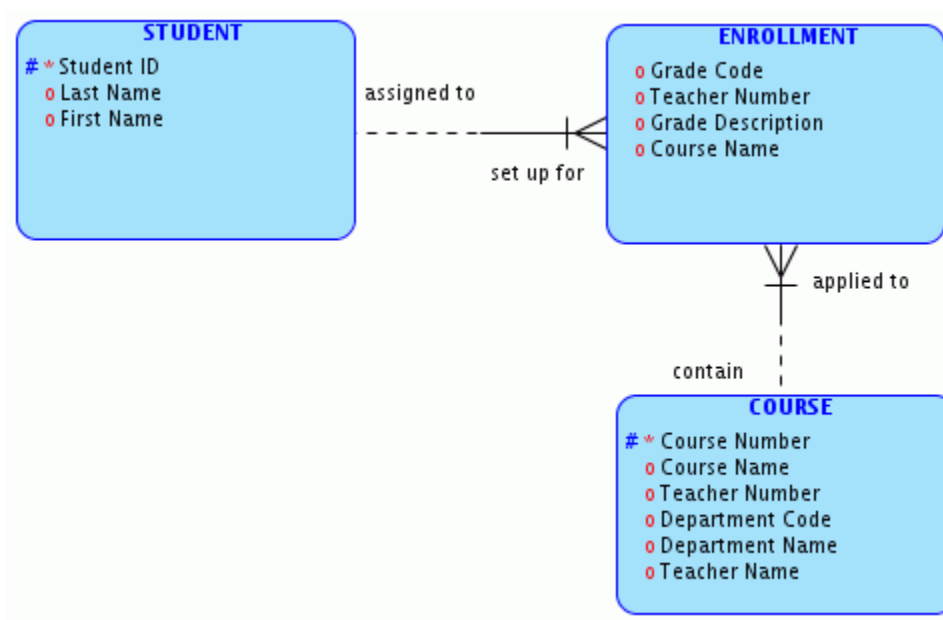
Chapter 11

Practice 11-1: Normalize an ERD

Task

For the following ERD, evaluate each entity against the rules of normalization, identify the misplaced attributes, and explain which rule of normalization each misplaced attribute violates. Then redraw the diagram in Oracle SQL Developer Data Modeler.

Practice 11-2: Validate an ERD for Normalization

Tasks

For the following ERD, evaluate the following unnormalized data and develop an entity relationship diagram in SQL Developer Data Modeler that is normalized to third normal form.

User ID	User Name	Message ID	Recorded Date	Subject	Text	Server ID	Server Name
2301	Smith	54101	05/07	Meeting Today	There is…	3786	IMAP05
2301	Smith	54098	07/12	Promotions	I like to…	3786	IMAP05
2301	Smith	54445	10/06	Next Assignment	Your next…	3786	IMAP05
5607	Jones	54512	06/07	Lunch?	Can You…	6001	IMAP08
5607	Jones	54101	05/07	Meeting Today	There is…	6001	IMAP08
5607	Jones	54660	12/01	Jogging Today?	Can you…	6001	IMAP08
7773	Walsh	54101	05/07	Meeting Today	There is…	9988	EMEA01
7773	Walsh	54554	03/17	Stock Quote	The latest…	9988	EMEA01
0022	Patel	54101	05/07	Meeting Today	There is…	9988	EMEA01
0022	Patel	54512	06/07	Lunch?	Can you…	9988	EMEA01