

**ORACLE®**

**ACADEMY**

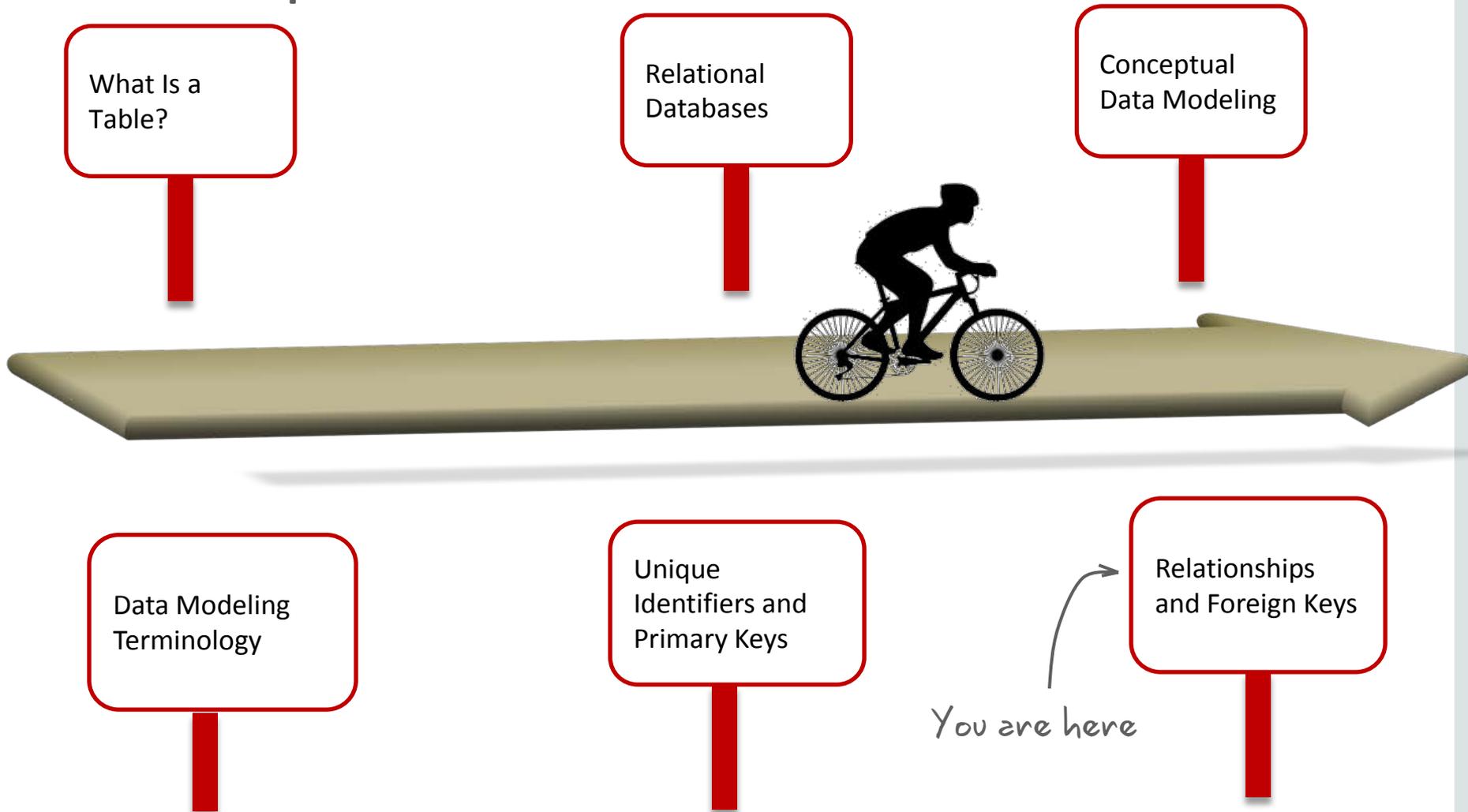
# Database Foundations

2-6

Relationships and Foreign Keys



# Roadmap



# Objectives

This lesson covers the following objective:

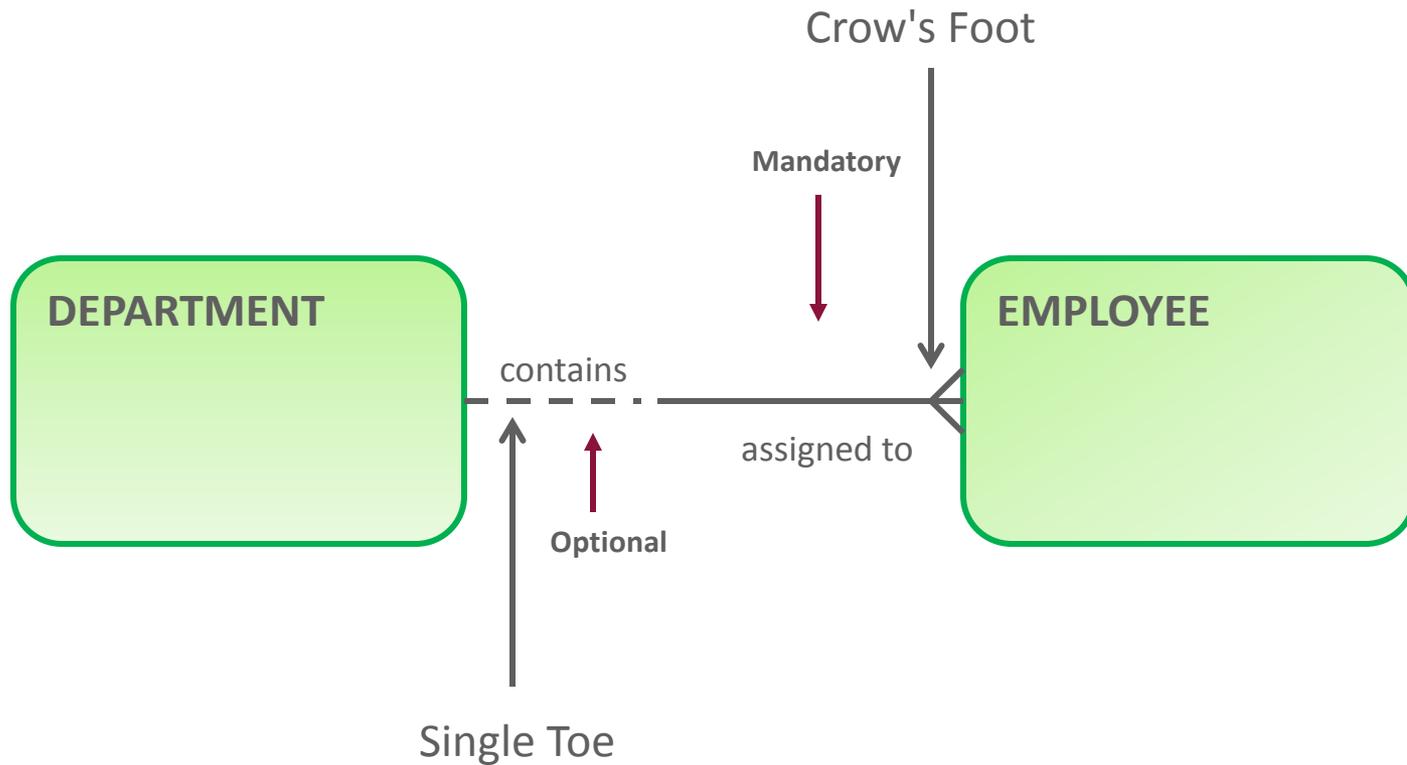
- Define and recognize examples of relationships and corresponding foreign keys



# Relationships

- Relationships represents an association between two or more entities. These lines are either solid or dashed.
- These lines terminate in either a "single toe" or a "crow's foot."
- The name of the relationship, from either perspective, is printed near the starting point of the relationship line.
- Examples:
  - EMPLOYEES have JOBS.
  - JOBS are held by EMPLOYEES.

# Relationship Examples



# Foreign Key

- A foreign key (FK) is a column or a combination of columns in one table that refers to a primary key in the same table or another table.
- Relationships in a conceptual data model are mapped to foreign keys in a database table.

# Foreign Key Examples

**EMPLOYEES**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	DEPARTMENT_ID
100	Steven	King	90
101	Neena	Kochhar	90
102	Lex	De Haan	90
103	Jennifer	Whalen	10

← Foreign Key

**DEPARTMENTS**

Primary Key →

DEPARTMENT_ID	DEPARTMENT_NAME
10	Administration
20	Marketing
50	Shipping

↑ refers to

# Summary

In this lesson, you should have learned how to define and recognize examples of relationships and corresponding foreign keys.



