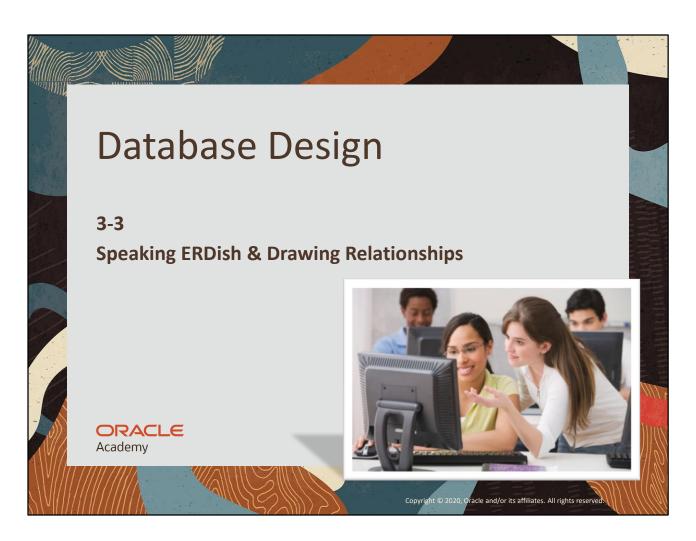
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This lesson discusses how to describe a relationship using precise language, and in turn, correctly draw the relationship.

Objectives

- This lesson covers the following objectives:
 - -State relationships between entities in precise words (ERDish)
 - -Draw and label relationships correctly on an ERD



DDS3L3 Speaking ERDish & Drawing Relationships

KH SIIIIIIII SIIIX

Purpose

- Most businesses use industry-specific terminology (words which have a special meaning within that business) in order to communicate information
- Data modeling uses industry-specific terminology as well, which we will call ERDish for the purposes of this class
- ERDish—the vocabulary used to clearly communicate the business rules that are captured on an ERD—will give you a common language both when collecting the business rules from your client and communicating them to the Database Administrators who will implement your design

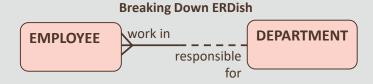


DDS3L3
Speaking ERDish & Drawing Relationships

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ERD Language

- ERDish is the language we use to state relationships between entities in an ERD
- You have already been speaking and writing it, when you identified relationships and specified optionality and cardinality
- We are simply breaking down each ERDish sentence into its components





DDS3L3 Speaking ERDish & Drawing Relationships

The Components of ERDish

- EACH
- Entity A
- OPTIONALITY (must be/may be)
- RELATIONSHIP NAME
- CARDINALITY (one and only one/one or more)
- Entity B



DDS3L3 Speaking ERDish & Drawing Relationships

The Components of ERDish

 Since each relationship has two sides, we read the first relationship from left to right (or top to bottom, depending on the ERD layout)

Breaking Down ERDish

- 1. EACH
- 2. Entity A
- 3. OPTIONALITY (must be/may be)
- 4. RELATIONSHIP NAME
- 5. CARDINALITY (one and only one/one or more)
- 6. Entity B

EMPLOYEE

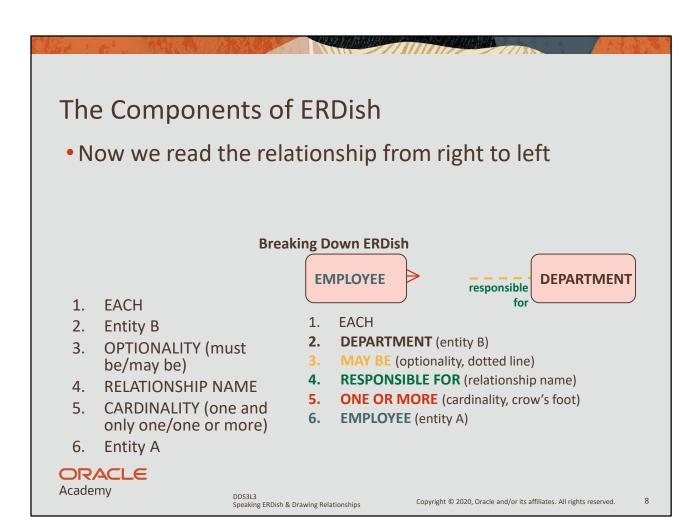
- work in
- DEPARTMENT

- 1. EACH
- 2. EMPLOYEE (entity A)
- 3. MUST (optionality, solid line)
- **4. WORK IN** (relationship name)
- **5. ONE (AND ONLY ONE)** (cardinality, single toe)
- **6. DEPARTMENT** (entity B)

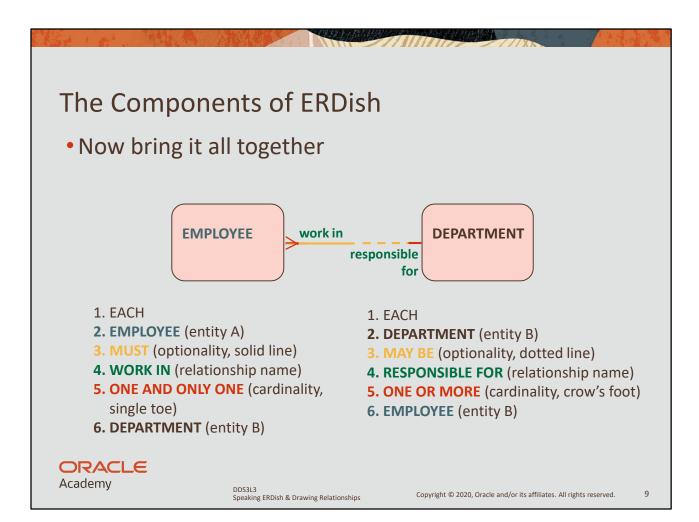
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It is often necessary to add a small "s" to the end of the second entity name to make the ERDish sentence more readable.



Each EMPLOYEE must work in one and only one DEPARTMENT. EACH DEPARTMENT may be responsible for one of more EMPLOYEEs.

Terminology

- Key terms used in this lesson included:
 - -ERDish



DDS3L3 Speaking ERDish & Drawing Relationships

Summary

- In this lesson, you should have learned how to:
 - -State relationships between entities in precise words (ERDish)
 - -Draw and label relationships correctly on an ERD



DDS3L3 Speaking ERDish & Drawing Relationships

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