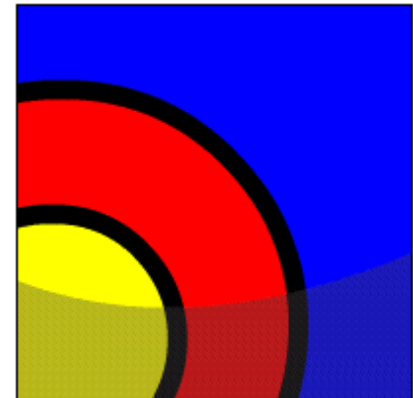


# Speaking ERDish and Drawing Relationships

### What Will I Learn?

**In this lesson, you will learn to:**

- State relationships between entities in precise words (ERDish)
- Draw and label relationships correctly on an ERD





### Why Learn It?

Most businesses have a unique terminology – words which have a special meaning within that business - that people speak in order to communicate information.

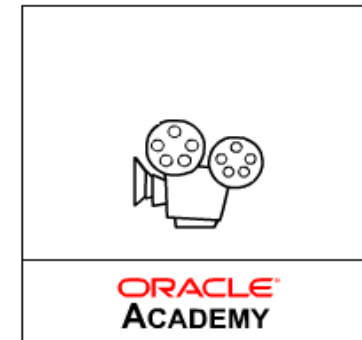
Data modeling also has a unique terminology as well, which we call ERDish for the purposes of this class. Learning how to create ERDs and speak ERDish gives you a common terminology with your clients and with Database Administrators who will implement your design.



### Tell Me / Show Me

View the following scene between the waiter placing orders and the chef.

Why did the waiter have trouble at the end?



**sdm\_s03\_l03\_a01**

### Tell Me / Show Me

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,

#### Breaking Down ERDish



## Tell Me / Show Me

### The components of 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

Since a relationship has two sides, we first read one side -- from left to right.

### Breaking Down ERDish



1. EACH
2. **EMPLOYEE** (entity A)
3. **MUST BE** (optionalty, solid line)
4. **WORKING IN** (relationship name)
5. **ONE** (cardinality, single toe)
6. **DEPARTMENT** (entity B)

## Tell Me / Show Me

### The components of 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

Now we read the relationship from right to left.

### Breaking Down ERDish



1. EACH
2. **DEPARTMENT** (entity B)
3. **MAY BE** (optionality, dotted line)
4. **THE COST CENTER FOR** (relationship name)
5. **ONE OR MORE** (cardinality, crow's foot)
6. **EMPLOYEE** (entity A)

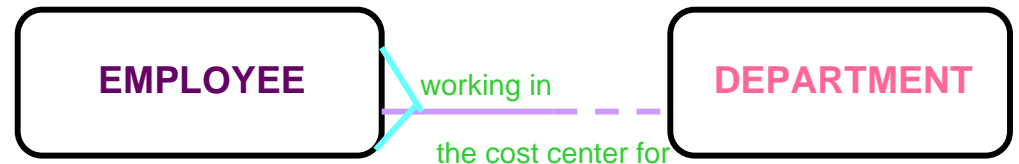
## Tell Me / Show Me

### The components of 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

Now we bring it together.

### Breaking Down ERDish



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

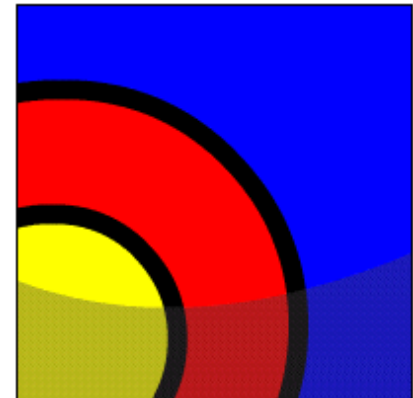
1. EACH
2. **DEPARTMENT** (entity B)
3. **MAY BE** (optionality, dotted line)
4. **THE COST CENTER FOR** (relationship name)
5. **ONE OR MORE** (cardinality, crow's foot)
6. **EMPLOYEE** (entity B)



### Summary

**In this lesson, you have learned how to:**

- State relationships between entities in precise words (ERDish)
- Draw and label relationships correctly on an ERD



# Tell Me / Show Me

## Terminology

Key terms used in this lesson include:

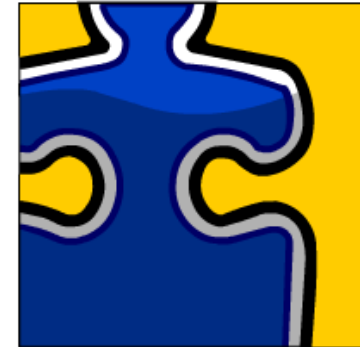
ERDish



# Summary

## Practice Guide

The link for the lesson practice guide can be found in the course outline.



Before the practice activities review the animation below.



**sdm\_s04\_l02\_a02**