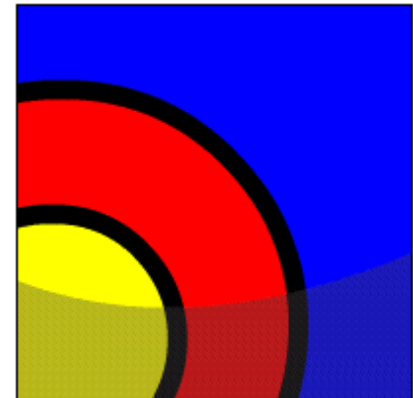


# Matrix Diagrams

### What Will I Learn?

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

- Identify relationships using a matrix diagram
- Draw an ERD from a matrix diagram

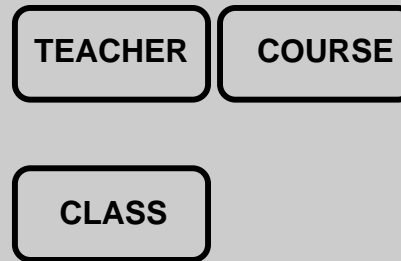




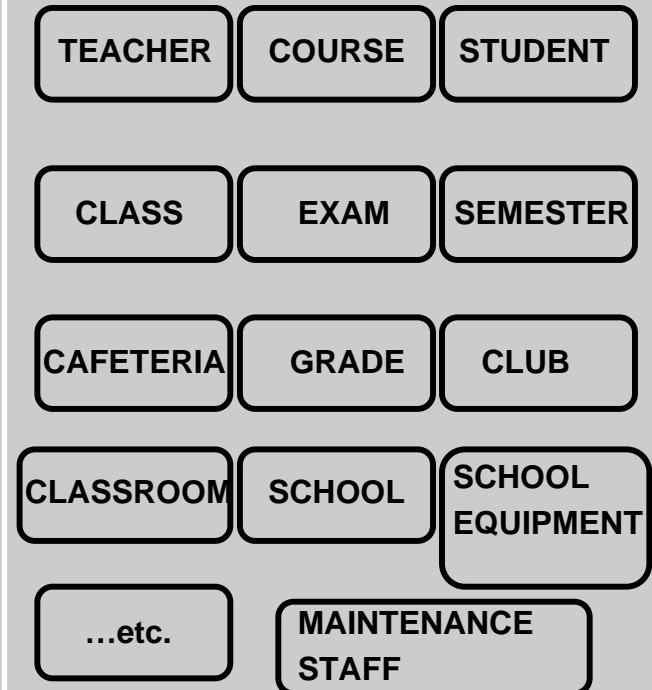
## Why Learn It?

It is useful to know more than one way of discovering relationships.

The matrix diagram is a good way to make sure that we haven't missed any relationships -- especially useful when you are dealing with a lot of entities.



It may be simple enough to identify relationships given three entities.



But what about finding relationships when you have thirteen or more entities?

## Tell Me / Show Me

### Business Scenario:

"I work for a travel agency. I keep a record of the countries that our customers have visited and the landmarks they've seen in each country. It helps us customize tours for them."

We can use the matrix diagram to uncover relationships.



	TRAVELER	COUNTRY	LANDMARK
TRAVELER			
COUNTRY			
LANDMARK			

**MATRIX DIAGRAM**

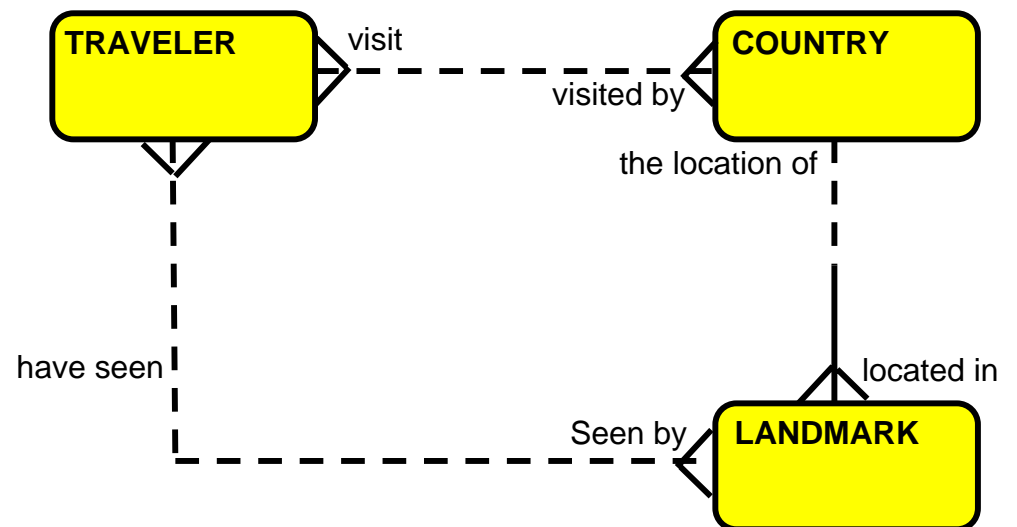
## Tell Me / Show Me

Relationships discovered via the matrix diagram are drawn on the ERD.

Matrix diagrams do not show optionality and cardinality.

“Each COUNTRY may be visited by one or more TRAVELERS”.

	TRAVELER	COUNTRY	LANDMARK
TRAVELER	<del>_____</del>	visit	have seen
COUNTRY	visited by	<del>_____</del>	the location of
LANDMARK	seen by	located in	<del>_____</del>



# Tell Me / Show Me

## Terminology

Key terms used in this lesson include:

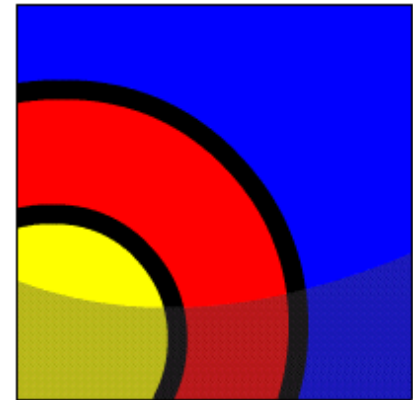
Matrix diagram



### Summary

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

- Identify relationships using a matrix diagram
- Draw an ERD from a matrix diagram





# Summary

## Practice Guide

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

