Database Design
3-4: Matrix Diagrams
Practice Activities

Objectives

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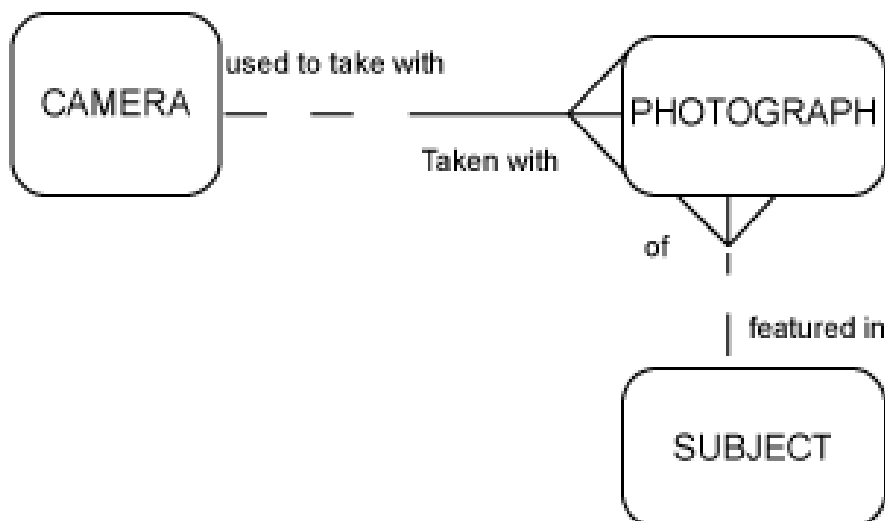- Draw an ERD from a matrix diagram

Vocabulary

Identify the vocabulary word for each definition below.

	A grid-like drawing that can be used to discover and record relationships between entities in an entity- relationship model

Try It / Solve It

1. Read the business scenario and review the ERD. Using the matrix diagram, make up two or more possible relationships between PHOTOGRAPH and the other entities that make sense for the business.

Scenario:

"I'm an amateur photographer. I own several cameras and am always taking pictures of different subjects. I'm trying to keep track of which camera and type of film perform best under certain conditions—indoor light, outdoor light, etc.—so when I have my films developed, I note down which camera I used. When the pictures come back, I note the subject and conditions. Each picture always features one subject. A subject could be a view, a person or group of persons, or an object or group of objects."

Two possible relationships are:

	CAMERA	PHOTOGRAPH	SUBJECT
CAMERA			
PHOTOGRAPH			
SUBJECT			

2. Complete the matrix diagram below, and construct an ERD from it.

	Runner	City For Race	Race Type	Running Event
Runner				
City For Race				
Race Type				
Running Event				