

Adding the Time Element ERD

Objectives

- Apply the rule of using DATE as an entity successfully
- Modify the animal-shelter ERD to accommodate new design requirements
- Identify and design possible reports that can be produced from the data; explain how the information from these reports could be useful to the business

Try It / Solve It

Examine the following table, and answer the following questions:

CONTAINER

ID	LOCATION	CONTENTS	DESTINATION	DEPARTURE	ARRIVAL
32215	Singapore	fabric	Hong Kong	23-Mar-06	28-Mar-06
21187	Seattle	lumber	Taiwan	18-Apr-06	2-May-06
11007	Los Angeles	medical	Cape Town	23-Mar-06	18-Apr-06
32200	Singapore	lumber	Barcelona	23-May-06	2-Jun-06
21187	Taiwan	fireworks	Seattle	1-May-06	
11007	Cape Town	food	Barcelona	18-Jul-06	

1. List 2 ways this data could be used to provide useful information to the shipping company (2 reports that could be made using the data)
2. Based on the business rules inferred from the table, identify one piece of data that must be in error.
3. Based on this data, how many containers were in transit on April 10th?
4. Where was container 32200 on June 1, 2006?
5. Assuming no gaps in the data, where was container 11007 on July 1, 2006?
6. What were the contents of container 11007 on April 1, 2006?
7. (Optional Practice: Animal Shelter)

This practice is step 7 in the Animal Shelter project.