



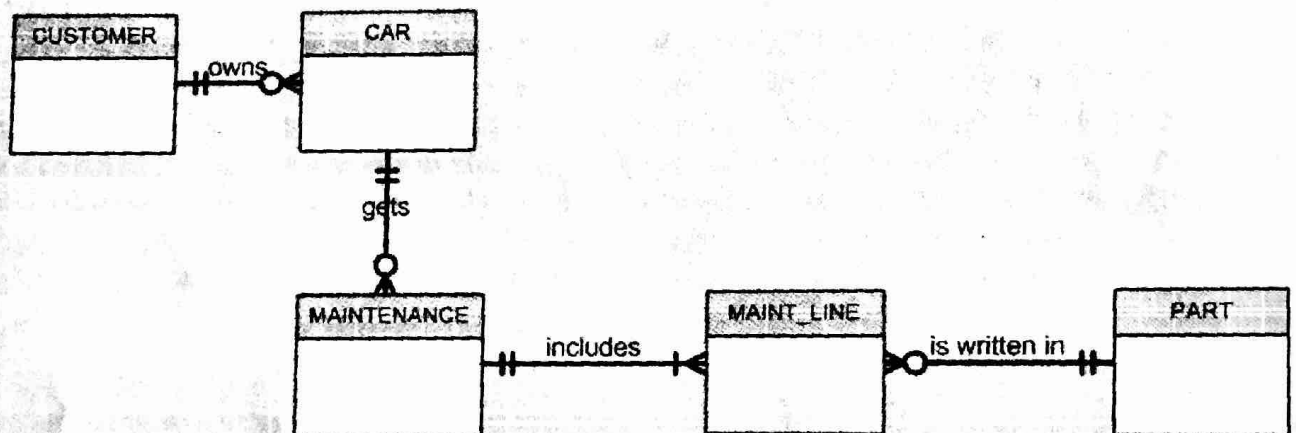
ONLINE CONTENT

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REVIEW QUESTIONS

1. What two conditions must be met before an entity can be classified as a weak entity? Give an example of a weak entity.
2. What is a strong (or identifying) relationship, and how is it depicted in a Crow's Foot ERD?
3. Given the business rule "an employee may have many degrees," discuss its effect on attributes, entities, and relationships. (Hint: Remember what a multivalued attribute is and how it might be implemented.)
4. What is a composite entity, and when is it used?
5. Suppose you are working within the framework of the conceptual model in Figure Q4.5.

FIGURE Q4.5 The conceptual model for Question 5



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Given the conceptual model in Figure Q4.5:

- a. Write the business rules that are reflected in it.
 - b. Identify all of the cardinalities.
6. What is a recursive relationship? Give an example.
 7. How would you (graphically) identify each of the following ERM components in a Crow's Foot notation?
 - a. an entity
 - b. the cardinality (0,N)
 - c. a weak relationship
 - d. a strong relationship
 8. Discuss the difference between a composite key and a composite attribute. How would each be indicated in an ERD?
 9. What two courses of action are available to a designer who encounters a multivalued attribute?
 10. What is a derived attribute? Give an example.
 11. How is a relationship between entities indicated in an ERD? Give an example using the Crow's Foot notation.
 12. Discuss two ways in which the 1:M relationship between COURSE and CLASS can be implemented. (Hint: Think about relationship strength.)