

## Fundamentals of Database Systems | (5th Edition)

Chapter 4, Problem 20E

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Step-by-step solution

Step 1 of 2

Consider the following museum database to create the ER diagram:

*ART\_OBJECT*(Id\_no, Artist, Year, Title, Description)  
*ARTIST*(Name,DateBorn, Date\_died, Country\_of\_origin, Epoch, Main\_style, Description)  
*PERMANENT\_COLLECTION*(Date\_acquired, Status, Cost)  
*BORROWED*(Borrowed\_from, Date\_borrowed, Date\_returned)  
*PAINTING*(Drawn\_on, Paint\_type,Style)  
*SCULPTURE*(Material, Height, Weight,Style)  
*STATUE*(Material, Height, Weight,Style)  
*OTHER*(Type,Style)  
*COLLECTIONS*(Name,Type,Description,Address,Phone,Contact\_person)  
*EXHIBITIONS*(Name, Start\_date, End\_date)

The following are the assumptions:

- An ARTIST can create any number of ART\_OBJECTS.
- ART\_OBJECT will be displayed in the exhibition.
- Many ART\_OBJECTS can be displayed in many EXHIBITIONS.

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Step 2 of 2

The EER schema diagram for the art museum database is as follows:

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#### Chapter 4, Solution 26E

(a) Correct. In this case E1 and E2 are overlapping specializations and if an entity is present in E2 is related to E3 by R. this condition is overlapping entity is prohibited from being related to E3. Therefore, This is correct it is possible...

[See solution](#)

#### Chapter 4, Solution 24E

Assumptions: 1. In any move maximum two pieces can get affected. 2. Player can promote a piece. 3. A piece gets promoted. 4....

[See solution](#)

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