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PCRS

Quests

Code Editor ▼

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Prep 11 - Part 1 of 1

Chase test 1



Suppose we have a relation on attributes ABCDEFG with these functional dependencies:

B -> CD.

C -> AG,

CE -> F,

CF -> B.

Which of the following decompositions are lossless? Check all that apply.

- ☐ ABC, CDE, EFG
- ☐ ACE, CDEF, BFG
- **BCE, ACEF, BDG**
- ☐ ABCD, DEFG
- ✓ ABC, BD, CEF, CEG

History

Submit

✓ Your solution is complete.

Submitted after the deadline!

Keys 1



Suppose we have a relation on attributes ABCDEFG with these functional dependencies:

B -> CD.

C -> AG,

CE -> F,

CF -> B.

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Which of the following are true? Check all that apply.
C is in no key.
☑ E is in every key.
G is in every key.
☑ D is in no key.
History
✓ Your solution is complete.
Submitted after the deadline!
ER 1 ✓
efer to the ER diagram on slide 17 from the slides posted on the course ebsite here.
Which of the following situations are permitted by this ER model? Theck all that apply.
A person can have residences in any number of cities.
A city might have no people who reside there.
A tourist may have no reservations at all.
A voyage must must have at least one tourist with a reservation for it.
The sale relationship is optional for an order.
History
✓ Your solution is complete.
Submitted after the deadline!
ER 2 ✓
lefer to the ER diagram on slide 17 from the slides posted on the course

website here.

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Which of the following situations are permitted by this ER model: Check all that apply. ✓ There can be the same number of orders as invoices. ☐ There can be more invoices than orders.	?
✓ There can be more orders than invoices.	
☐ Residence is a one-to-one relationship.	
✓ Reservation is a many-to-many relationship.	
History	Submit
✓ Your solution is complete.	
Submitted after the deadline!	