




Prep 2 - Part 1 of 3

Multiple Choice Question

What implications would arise if we made {mID, aID} the key in relation Roles instead of {mID, aID, character}?

- ☒ That would disallow a movie from having the same actor in two different roles.
- ☐ That would allow a movie to have the same actor in two different roles.
- ☐ That would require a movie to have the same actor in two different roles.
- ☐ We can't do that because mID and aID are already keys in other relations.

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 Your solution is complete.

Submitted after the deadline!

Multiple Choice Question

Consider these changes to the instance of Roles given in the handout. Which would violate the constraint implied by its key (i.e. only by its key, not by any foreign key constraints)? Check all that apply.

- ☐ Adding the tuple <1, 1, "Michael Corleone">.
- ☐ Removing the tuple <6, 3, "The Tin Man">.
- ☒ Adding the tuple <5, 2, "Han Solo">.
- ☐ Removing the tuple <5, 2, "Han Solo">.
- ☐ Adding the tuple <8, 4, "The Scarecrow">.



☐ None of the above.

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Multiple Choice Question



A foreign key constraint always has the form

$R1[X] \subseteq R2[Y]$,

where X is a set of attributes from relation $R1$ and Y is a set of attributes from relation $R2$.

Which of the following statements are true? Check all that apply.

- ☒ A foreign key constraint restricts the data that can go in a relation.
- ☒ A foreign key constraint is a kind of integrity constraint.
- ☐ An integrity constraint is a kind of foreign key constraint.
- ☒ Y must be a key in the table $R2$.
- ☐ X must be a key in the table $R1$.

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Multiple Choice Question



Which of the following situations does the foreign key constraint $Roles[mID] \subseteq Movies[mID]$ disallow?

- ☐ Two roles in one movie played by the same actor.
- ☐ A role in a movie played by two different actors.
- ☒ A role in a movie that doesn't exist in the **Movies** table.

☐ A movie with a role that doesn't exist in the Roles table.

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