

Self Assess. Test – Advanced Data Modeling

1. Which statement is inconsistent with the model?
 - a. A conference has a name, location, start date, and end date.
 - b. There are several different offices for a conference (such as program committee, program chair, and general chair) and only one person may serve for each office.
 - c. A conference may have multiple calls for papers, each of which has a publication date and describes material that is desired for the conference.

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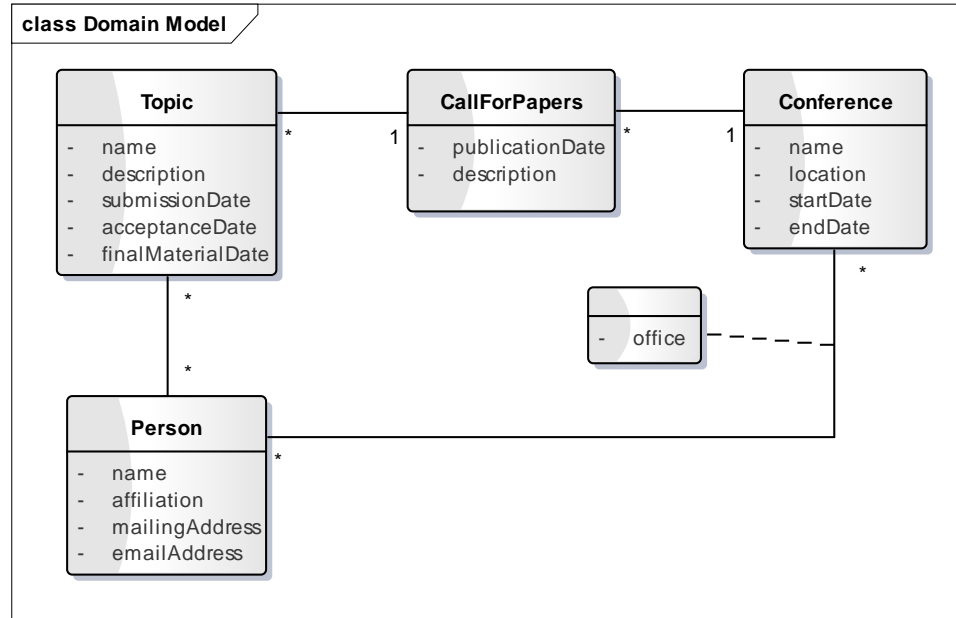
1. Which statement is inconsistent with the model?

(continued)

- d. A call for papers lists multiple topics (such as papers, tutorials, and panels) each of which has a name, description, submission date, acceptance date, and a date for submission of final materials.
- e. Each topic can be chaired by many persons.
- f. None of the above.

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1. Which statement is inconsistent with the model?
(continued)

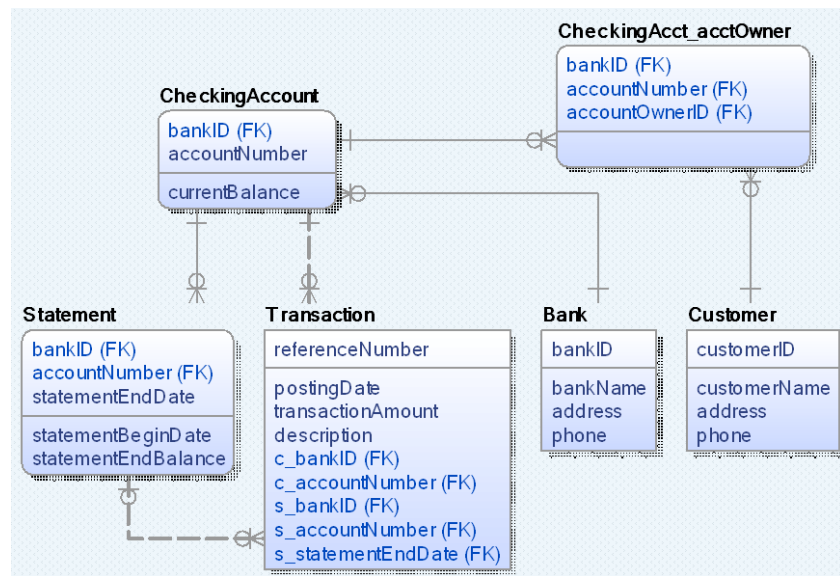
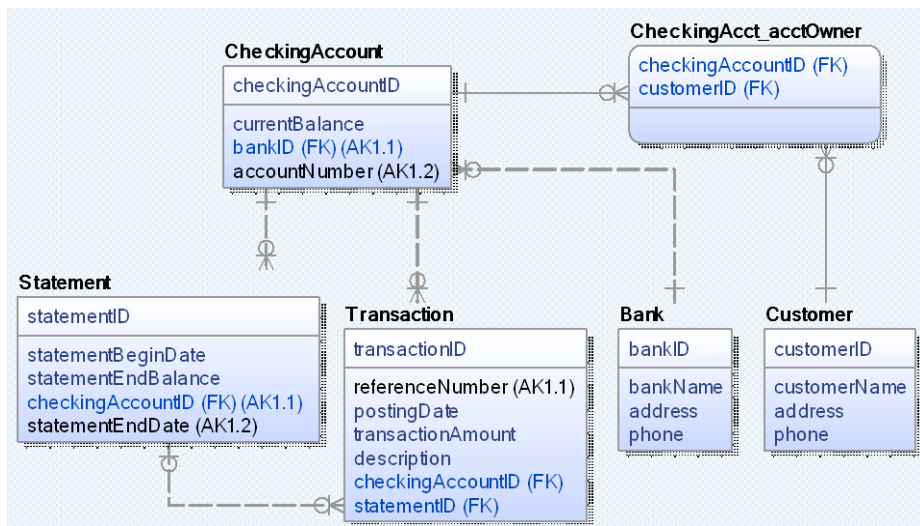


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2. The following models have different approaches to identity. Are their corresponding UML models the same? The *c_* prefix denotes the migrated key from *CheckingAccount*. The *s_* prefix denotes the migrated key from *Statement*.

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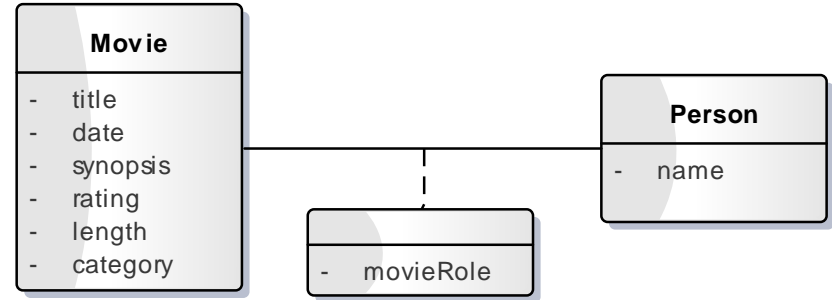
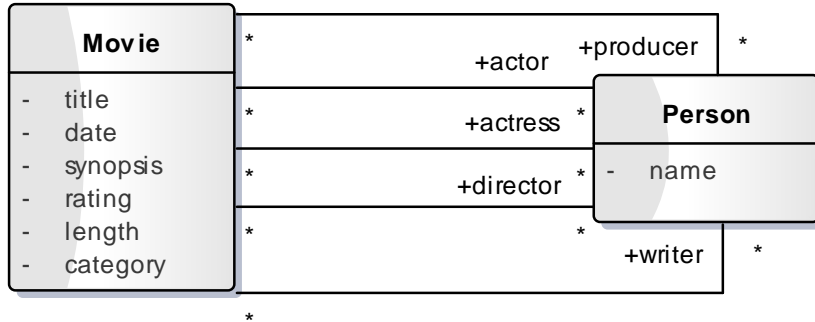
2. (continued)



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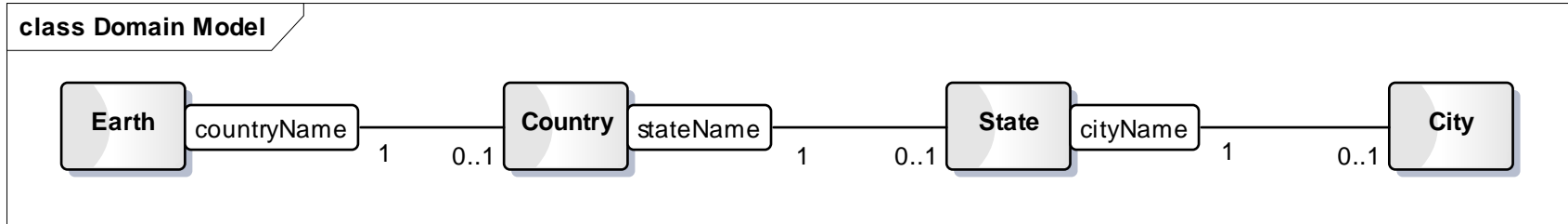
3. Consider the following models. Attribute *movieRole* has the possible values of producer, actor, actress, director, and writer. Do these models have the same meaning?

class Domain Model



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4. Is the following a valid UML data model?



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5. Do the following models describe the same occurrences?

class Domain Model

Stock

- name
- currentValueAmount
- valuationDate
- currencyName
- dividendAmount

FixedRateBond

- name
- currentValueAmount
- valuationDate
- currencyName
- maturityDate
- maturityValueAmount
- interestRateAmount

VariableRateBond

- name
- currentValueAmount
- valuationDate
- currencyName
- maturityDate
- maturityValueAmount
- referenceRateAmount
- interestFormulaString

Insurance

- name
- currentValueAmount
- valuationDate
- currencyName
- insuranceTypeName
- annualPaymentAmount

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5. (continued)

