



INFO20003 Database Systems

Assignment Project Exam Help

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Dr. Penata Borovica-Gajic
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Lecture 06
Hands On Modelling

Semester 2 2018, Week 3



- **Feedback**

- Please share what you like/dislike about the subject
- What can be improved and how

- **Assignment 1** **Assignment Project Exam Help**

- Will be online on Friday 10/08/18 at 10am
<https://powcoder.com>
- Due date Friday 24/08/18 at 5:59pm
- Submit: **Add WeChat powcoder**
- 1. One PDF: Conceptual Model (pen and paper Chen's notation, scanned/photo legible), plus Physical Model (Crow's foot notation with Workbench, picture), plus assumptions
- 2. Physical model: Workbench file (mwb)

Which of the following is NOT a task when converting a Conceptual model to a Logical ER Model?

Define all data types for attributes

Resolve Many to Many relationships

Add foreign keys

Convert multi-valued attributes

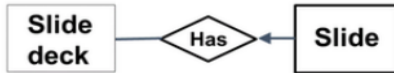
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Assuming that common sense applies, which ONE of the following ER model fragments is most believable?



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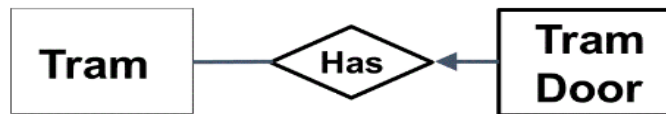
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Which ONE of the following models represented in Crow's foot notation is equivalent to the model represented in Chen's notation:

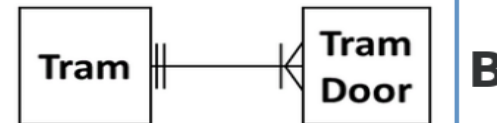
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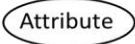
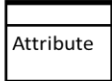
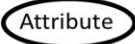

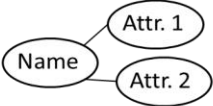
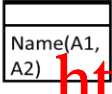
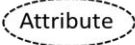
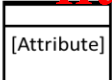
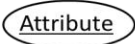
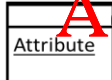

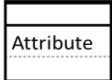
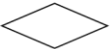



A




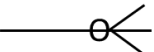

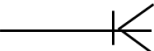

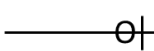

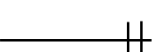
B

Conceptual Model Mapping - Recap

Concept Chen's not. Crow's foot not.


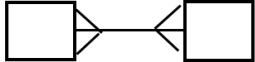
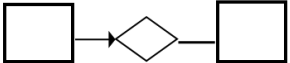
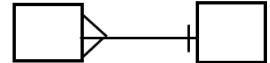
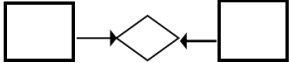
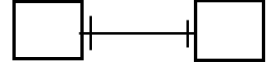
Entity		
Weak Entity		
Attribute		
Multi-valued A.		
Composite A.		
Derived A.		
Key A.		
Weak Key A.		
Relationship		
Weak relationship (Identifying rel.)		

Relationship cardinalities and constraints

	Chen's notation	Crow's foot notation
Optional Many 0..m		
Mandatory Many 1..m		
Optional One 0..1		
Mandatory One 1..1		

BINARY Relationship Cardinalities

Here we just looked at cardinalities and omitted participation constraints (optional/mandatory) for clarity

Many to Many		
One to Many		
One to One		

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REEDUCATION

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- Relational algebra and calculus
 - How do we ask queries/interrogate a database
 - Foundation of SQL queries

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