



COMP3311 Week2

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25th Feb. 2021

今日内容

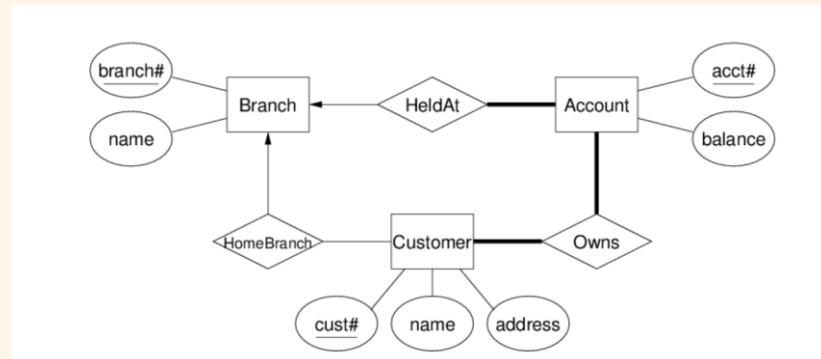
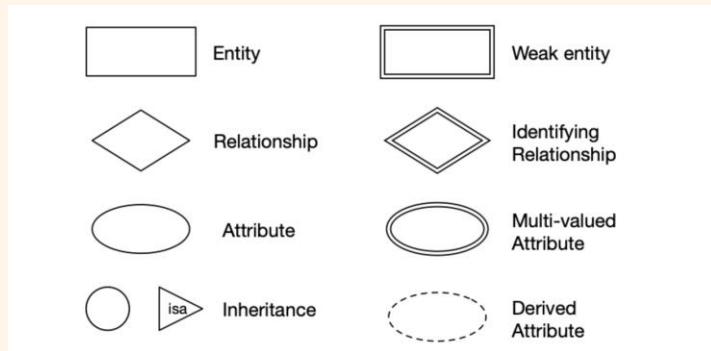
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1. W1知识点回顾
2. Quiz 核心知识点、每题讲解
3. W2 Preview
4. SQL实操 (Prac01, Prac02, IDE)



Week1 知识点回顾

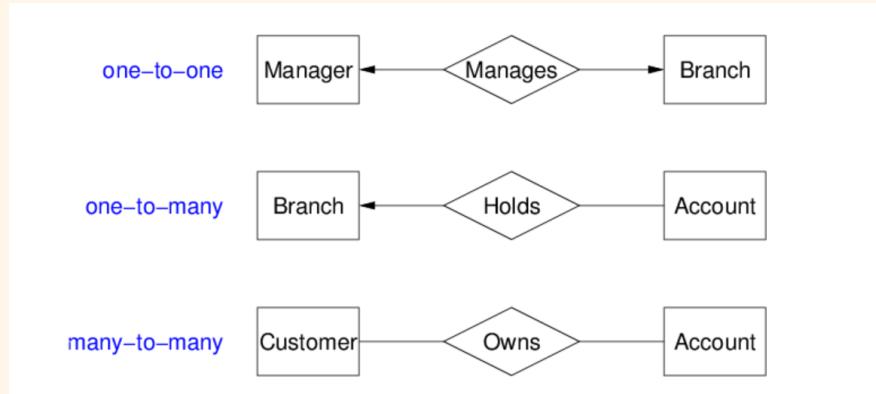
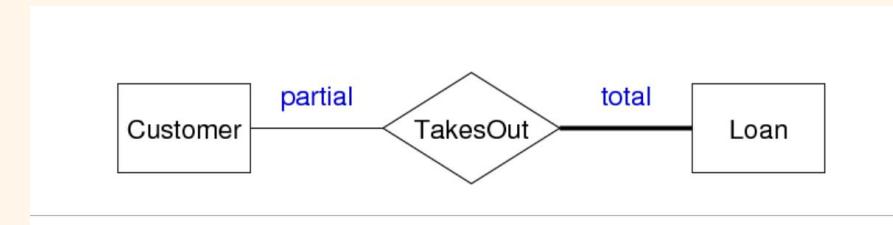
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重要：

Week1 知识点回顾

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Week1 知识点回顾

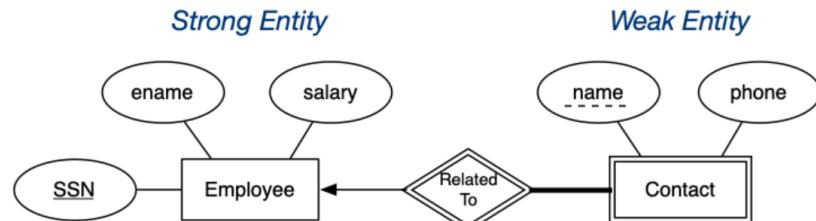
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Weak Entity Sets (cont)

In ER diagrams:

- weak entities are denoted by double-boxes
- strong/weak entity relationships are denoted by double-diamonds
- discriminators are denoted by dotted underline

Example:



Week1 知识点回顾

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Week1 Summary:

1. ER-Diagram基础知识: 什么是 entities, relationships, attributes
2. 学会画 ER-Diagram: partial/total, 1-to-1, 1-to-N, ...
3. 学会使用自然语言描述ER-Diagram



Quiz 知识点精讲

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❖ Example: Relationship Semantics

Semantics of the following relationships ...



A lecturer may teach one course
Every course is taught by 1 or more lecturers



Every lecturer teaches one or more courses
Every course is taught by 1 or more lecturers



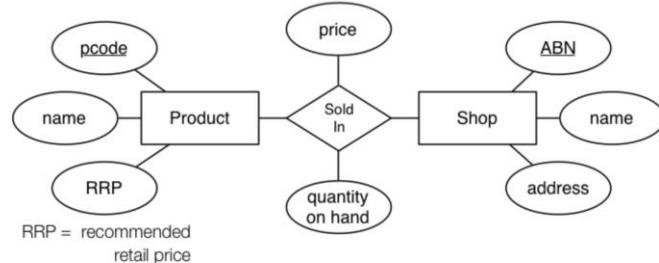
Every lecturer may teach one course
Every course is taught by one lecturer

Quiz 知识点精讲

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❖ Example: Relationship Semantics (cont)

In some cases, a relationship needs associated attributes.



(Price and quantity are related to products in a particular shop)

pcode	name	RRP
1001	旺仔	\$2
1002	椰汁	\$5

商店	商品名	Price	Quantity
TONGLI	旺仔	10	1

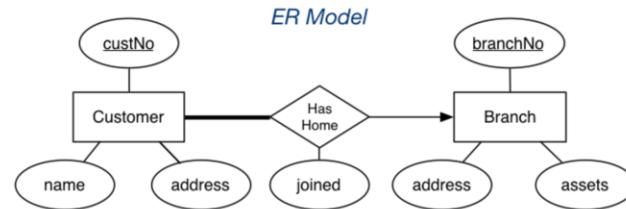
ABN	name	Addr.
TONGLI	TONGLI	ANZPARADE
JasMin	Jasmine	AnzParade

Quiz 知识点精讲

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❖ Mapping 1:N Relationships

Example:



Relational Version

Customer	custNo	name	address	branchNo	joined
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Branch	branchNo	address	assets
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完结 撒花

