COP 4710: Database Systems Spring 2013

Chapter 3 – In Class Exercises

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Introduction

• Transform each of the ER diagrams shown on this and the following few pages, into a set of relational schemas which show referential integrity constraints.

Problem #1

Employee

employee-id

employee-name

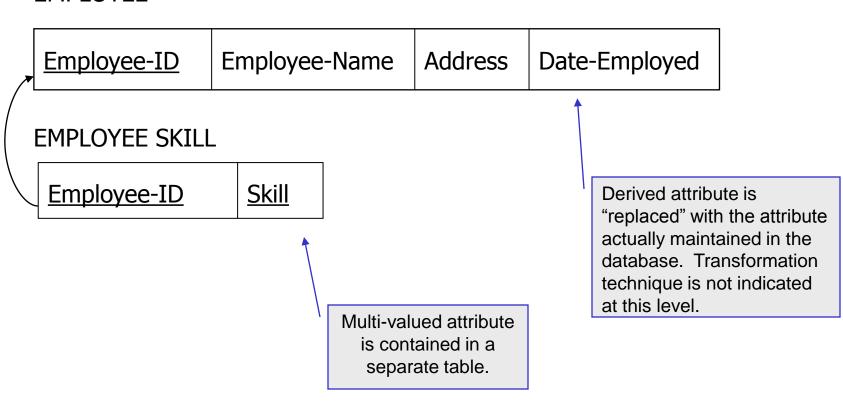
address

{skill}

[years-employed]



EMPLOYEE



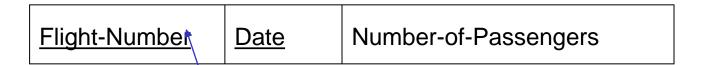


Flight

<u>flight-id</u> (flight-number, date)

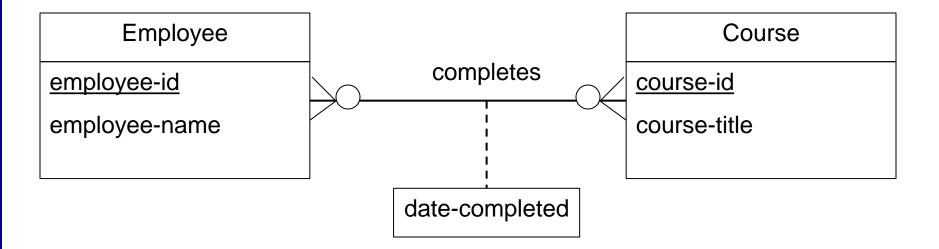
number-of-passengers

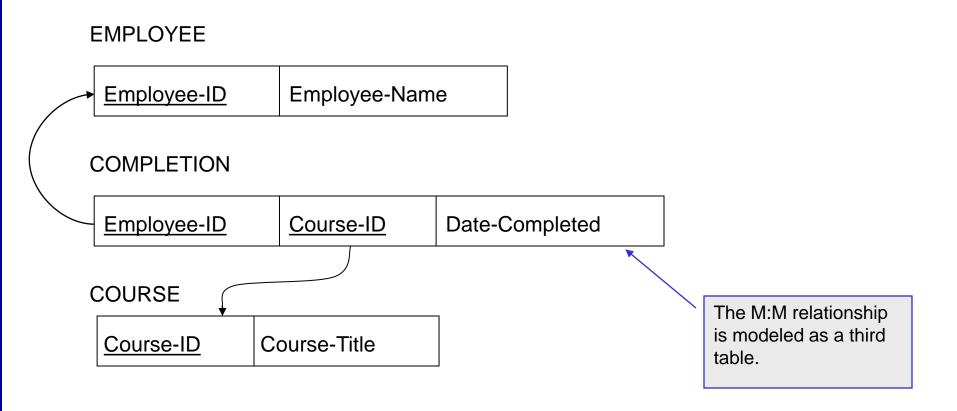
FLIGHT



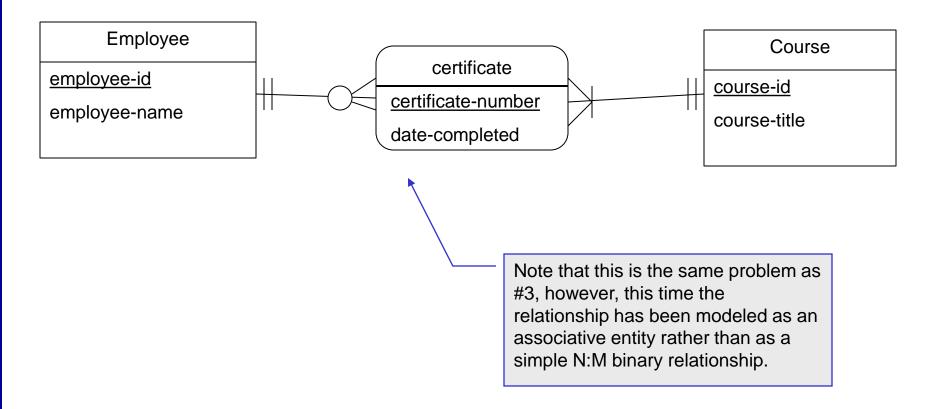
Composite attribute Flight-ID is replaced by both of the sub-component attributes of the original composite attribute. Note that since the original composite attribute was a key attribute that all of the subcomponent attributes are now key attributes.



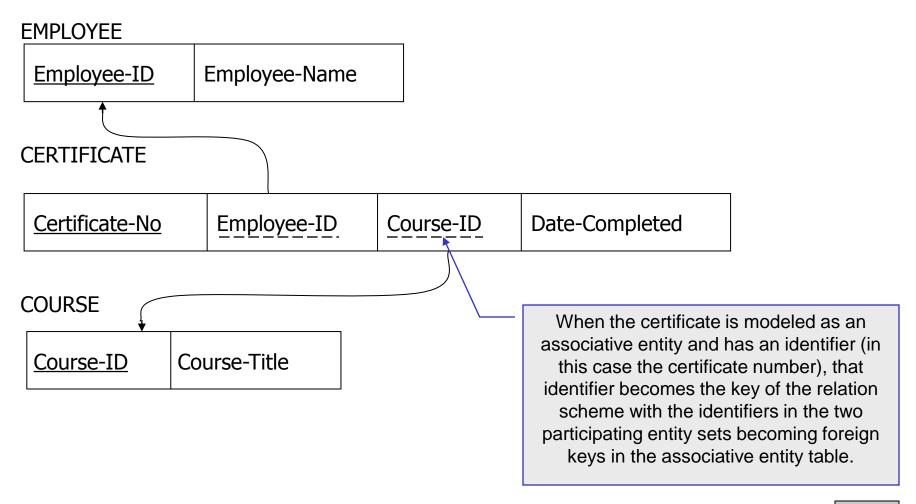




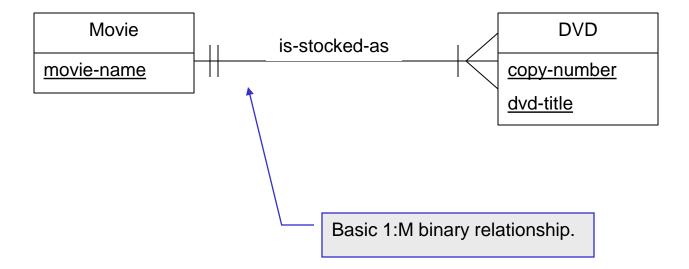


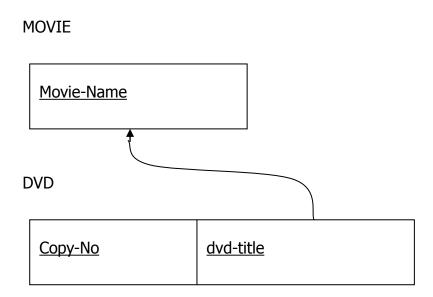




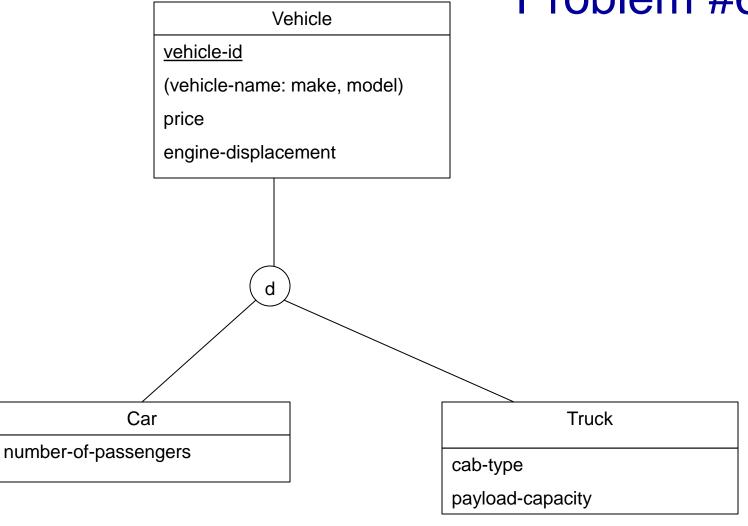




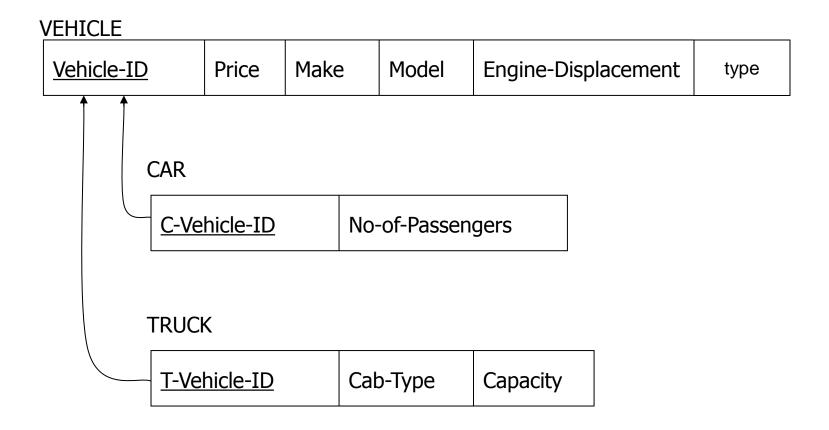




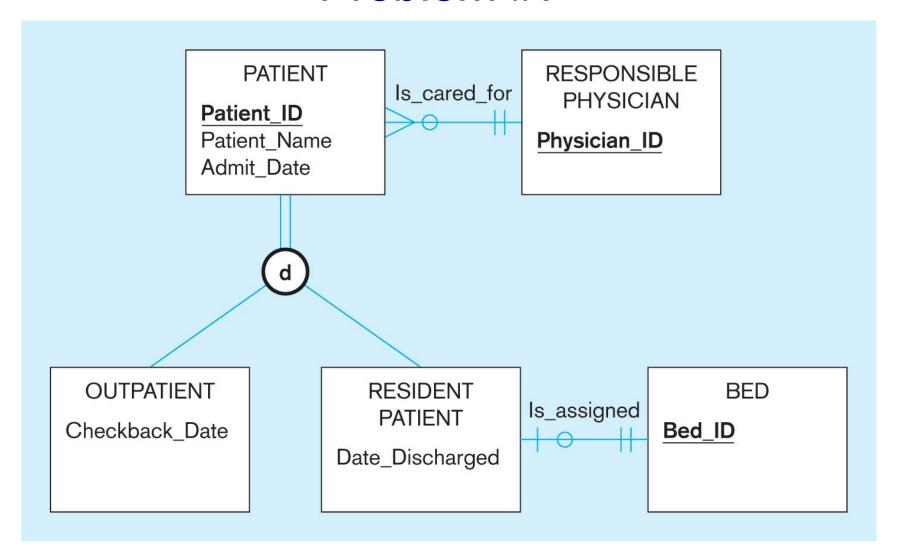














RESPONSIBLE PHYSICIAN

