# COP 4710: Database Systems Fall 2012

Chapter 3 – In Class Exercises

Instructor: Dr. Mark Llewellyn

markl@cs.ucf.edu

HEC 236, 407-823-2790

http://www.cs.ucf.edu/courses/cop4710/fall2012

Department of Electrical Engineering and Computer Science
Computer Science Division
University of Central Florida



#### 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

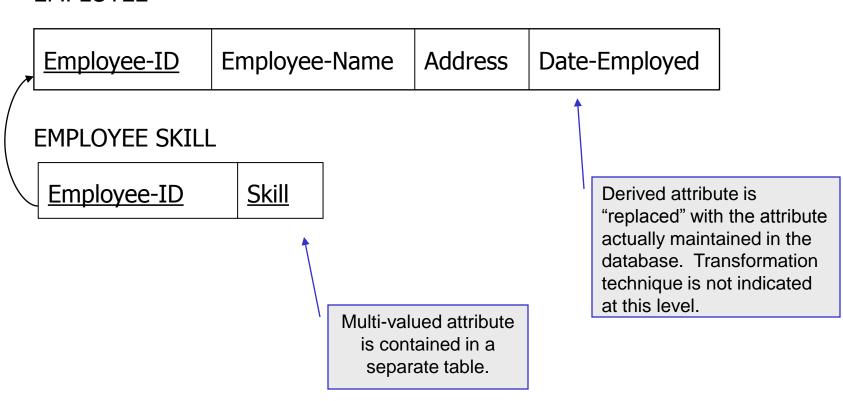
address

{skill}

[years-employed]



#### **EMPLOYEE**



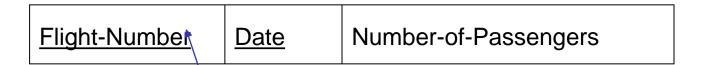


#### Flight

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

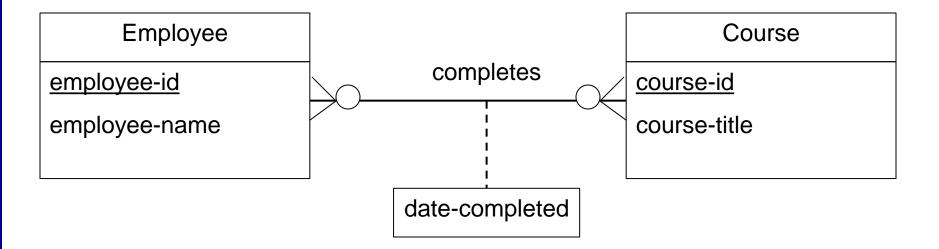
number-of-passengers

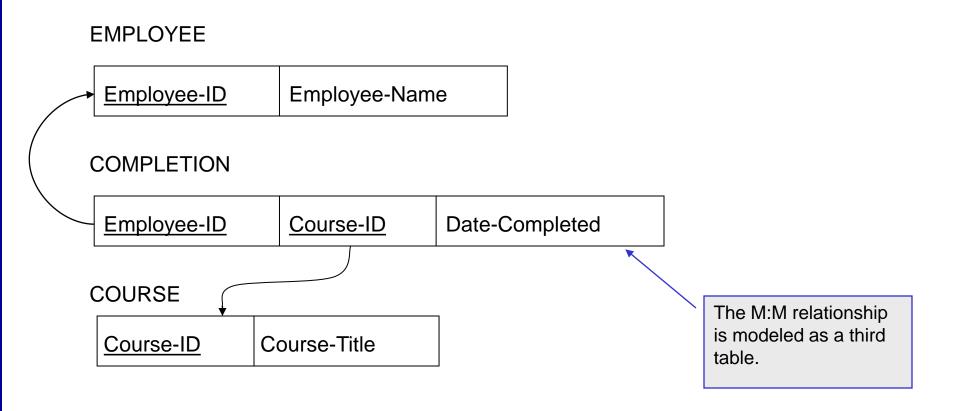
#### **FLIGHT**



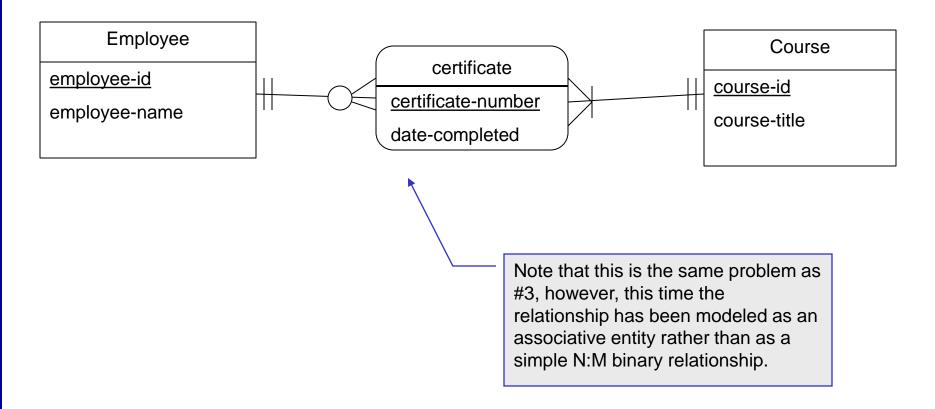
Composite attribute Flight-ID is replaced by both of the sub-component attributes of the original composite attribute. Note that since the original composite attribute was a key attribute that all of the subcomponent attributes are now key attributes.



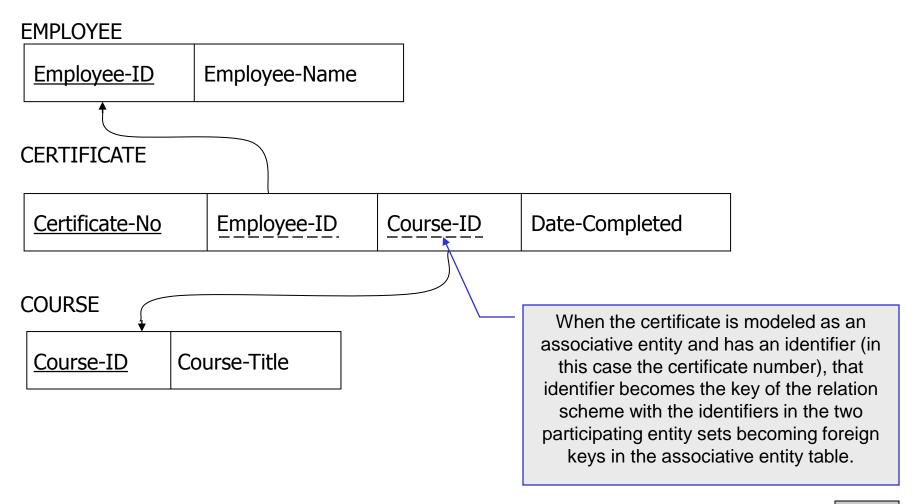




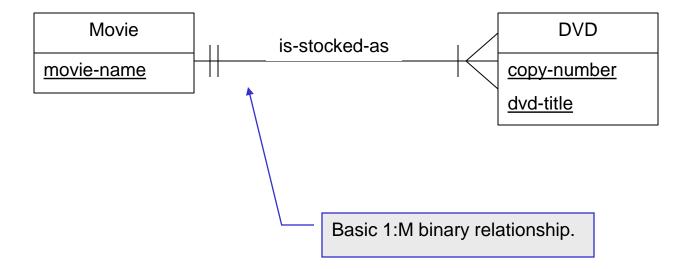


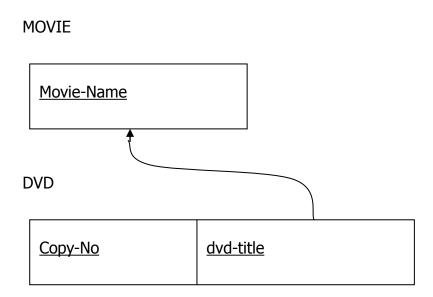




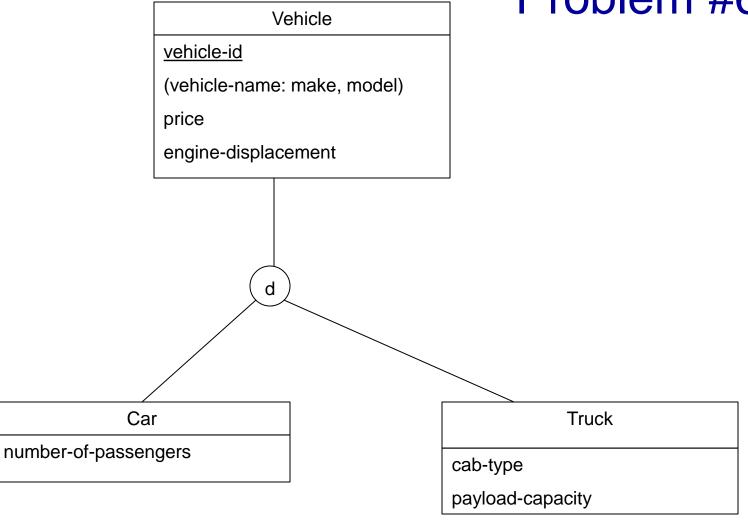




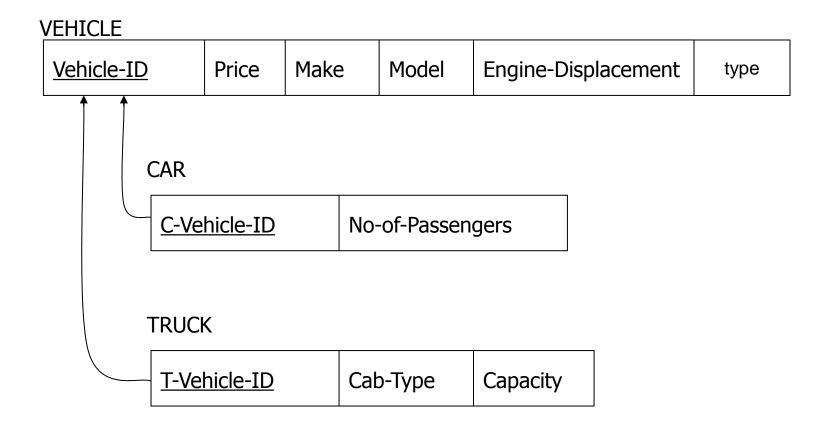




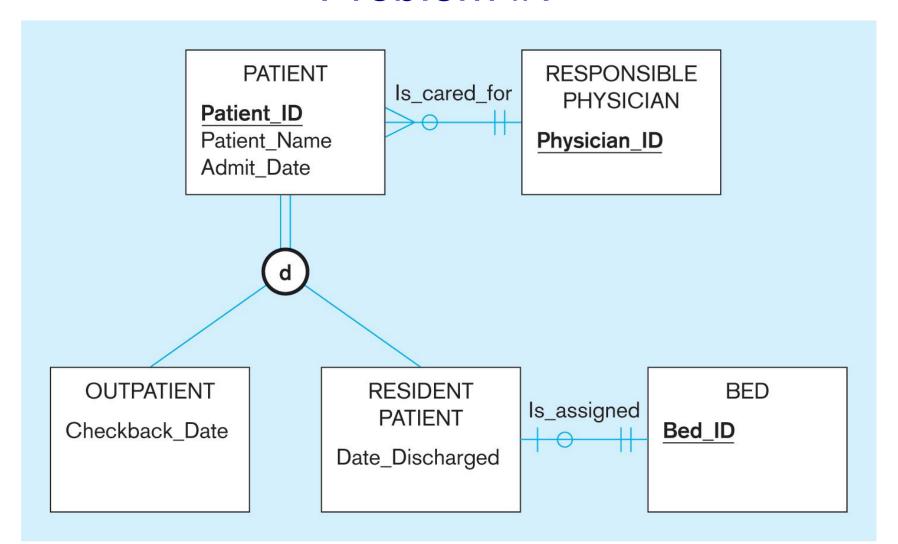














#### **RESPONSIBLE PHYSICIAN**

