



Fundamentals of Data Management

Pass Tasks 3.1.5: Entity Relationship Modelling

Overview

In this tutorial, you will practice reading and analyzing user requirements / business rules and design an Entity Relationship Model and present it in an Entity Relationship Diagram.

Purpose

Learn to read and analyse user requirements and design ER model

Task

Read, analyse and design the ER Model for the business scenarios presented in the tasks below. You can choose ER Diagrams (Chen or Crow's feet) or UML diagrams to show your solutions.

Time

This task should be completed in your third lab class and submitted for feedback in the third lab.

Resources

- Connolly & Begg, Database Systems, Chapters 12 and 16
- Stephens, Beginning Database Design Solutions, <http://goo.gl/bRCaxF>

Online resources

- Chen notation tutorial

<http://creately.com/blog/diagrams/er-diagrams-tutorial/>

- Crow's feet notation tutorial

<http://www.w3computing.com/systemsanalysis/systems-entity-relationship-model/>

Feedback

Discuss your solutions with the tutorial instructor.

Next

Get started on Credit Task 3.2.1

Pass Tasks 3.1.5 — Submission Details and Assessment Criteria

Document your solutions to the tasks using a word processor or other suitable editor. Upload the document to Doubtfire as pdf. The tutors will discuss them with you in the lab.

Subtask 3.1.5

Consider the following:

- a) Each company operates four departments, and each department belongs to one company.
- b) Each department in in part (a) employs one or more employees, and each employee works for one department.
- c) Each of the employees in part (b) may or may not have one or more dependents, and each dependent belongs to one employee.
- d) Each employee in part (c) may or may not have an employment history.
- e) Draw a complete diagram for a-d.

Add the solution to your lab report.