Fundamentals of Data Management

Pass Tasks 3.1: 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 or at the beginning of lab 4.

Resources

- Online module (from Canvas)
- 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 module 4.

Pass Tasks 3.1 — 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 3.1.3

Consider the following tables

jSubject

Subject_Code	Subject_Title	Subject_Convenor	Subject_Offer
TCB1253	Java Programming	Jason Ford	Semester 2
TAB2453	Data Structures	Dennis Then	Semester 2
TBB3653	Database Systems	Ali Hassan	Semester 1
TAB4153	System Analysis & Design	Jason Ford	Semester 1

Convenor

Convenor_ID	Convenor_Name	Convenor_Office	Convenor_Contact
ST254	Jason Ford	E514	8465921
ST298	Dennis Then	E521	8465332
ST321	Ali Hassan	E523	8465222

Using foreign key concept, modify the tables to better describe the relationship between both of them.