



Fundamentals of Data Management

Pass Tasks 5.1.3: SQL - Data Definition Language

Overview

In this tutorial, you will practise using SQL DDL statements to CREATE, ALTER and DROP tables in databases.

Purpose

Learn to write SQL DDL statements to create tables.

Task

Solve the tasks given below.

Time

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

Resources

- Elmasri & Navathe, Fundamentals of Database Systems
- Connolly & Begg, Database Systems, Chapter 7
- Online resources, e.g.
 - Several topics on SQL at this link:
<http://www.w3schools.com/sql/default.asp>

Feedback

Discuss your solutions with the tutorial instructor.

Next

Get started on Task 5.1.4.

Pass Tasks 5.1.3 — Submission Details and Assessment Criteria

Document your solutions to the tasks using a Word processor and upload to Doubtfire as pdf. The tutors will discuss them with you in the lab.

Consider the following:

| Student | Subject | Subj_Enrolment |
|--------------------|------------|----------------|
| stud_id | subj_code | stud_id |
| stud_name | subj_title | subj_code |
| stud_phone | | semester |
| stud_date_of_birth | | year |
| stud_city | | comment |
| stud_address | | |
| stud_postcode | | |
| | Grade | |
| | stud_id | |
| | subj_code | |
| | semester | |
| | year | |
| | grade | |

Figure 1: Parts of the University Database

Subtask 5.1.3

What are the foreign key constraints that should be included when creating the tables in the University database in figure 1?

| Relation | Foreign key | References |
|-----------------|-------------|------------------|
| Employee | branch_id | Branch.branch_id |

The 'References' column lists the primary key (branch_id) the foreign key links to and the relation which has this primary key (Branch).

Upload to Doubtfire.