

DB design for Data security

Lecture 9

Specification

Simple version: A junior high school teacher wants to manage students' grades by subjects so that:

- (1) each student has a identification code to distinguish and personal information when it is necessary to report.
- (2) Students study many subjects and need to manage the details of each subject grades.
- (3) Different subjects are often taught by different teachers. Each subject has detailed information about the subject.

Tasks

1. Design data models
 1. Concept models
 2. Physical models
2. Identify which information that is sensitive
3. Organize files ensuring the above security requirements.
4. Propose the corresponding security solutions

Advanced version

Teacher wants to contact the teachers who teach their classes. Each teacher will also have an identifier and personal information. Each teacher can only teach one subject and one subject can have many teachers.

Tasks

- Extended models and solutions of the above simple version