

Overview of Data Management

1. Synopsis

This course will cover fundamentals of relational database theory, important data management concepts such as data modelling, database design, implementation, data access, and practical data-related issues in current business information systems.

A series of in-class exercises, tests, pop quiz and course project will help students understand covered topics. Students are expected to apply knowledge learned in the classroom to solve many problems based upon real-life business scenarios, while gaining hands-on experiences in designing, implementing, and managing database systems.

2. Objectives

Upon successful completion of this course, students will be able to:

- Understand the role of databases in integrating various business functions in an organization
- Understand data modeling, conceptual, logical and physical database design
- Apply the fundamental techniques of data modeling to a real project
- Query a database using Structured Query Language
- Gain familiarity with some commercial database tools (MS VISIO, MySQL)
- Understand how to access the database in a web application (via PHP)
- Be aware of common issues of business database design and maintenance: re-design requirements etc.

3. Prerequisites

None

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http://www.sis.smu.edu.sg/Programme/diagram/Data_Mgmt.pdf