IT2201 / IT2601 / IT2564 / IT2621 / IT2521 / IT2323

Database Management Systems

# Course Administration

# Synopsis

- In this module, you will learn about

  - The concept of Database Management Systems.

  - How to design, implement and administer databases.

  - How to use Structured Query Language to define and manipulate databases.
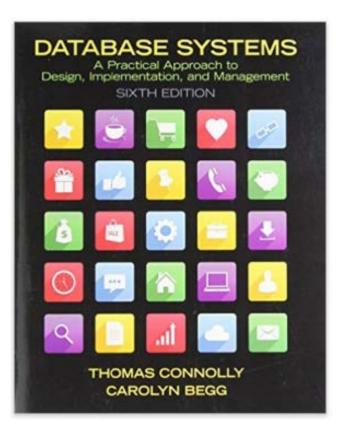
# TOPICS

- Part I   Database Concepts
  - Unit 1 Introduction to Database Systems
  - Unit 2 Relational Data Model

- Part II  Database Development
  - Unit 3 Overview of Database Development
  - Unit 4 Data Modeling
  - Unit 5 Logical Database Design
  - Unit 6 Normalization
  - Unit 7 Physical Database Design

# TOPICS

- Part III  Database Query Language &
  Administration
  - Unit 8  Structured Query Language (SQL)
  - Unit 9  Database Administration & Security
  - Unit 10 Transaction Management
  - Unit 11 Current & Emerging Database Technology

# Text References

1 Database Systems, Thomas Connolly & Carolyn Begg, 6th Edition, 2014, Pearson Education



- Main text reference
- Up-to-date contents
- Good organisation & clear explanation
- Very comprehensive and in-depth

# Text References

2    Database Solutions, Thomas Connolly & Carolyn Begg, 2004, Addison-Wesley

3    Modern Database Management, Jeffery A.Hoffer, 9th Edition, 2009, Prentice Hall

4    Database Systems, Rob & Coronel, 2009, Course Technology

# Mode of Learning

□ Lecture   (1 hour per week)

□ Practical ( 2 hours per week)

□ Tutorial  ( 1 hour per week)

# Mode of Assessment

| Components | Weight-age | Week |
|---|---|---|
| Examination | 50% | |
| Written Test | 10% | Week 6 |
| Assignment | 10% | Week 6, 7 |
| Practical Test | 15% | Week 14 |
| e-Tutorials | 5% | Week 1, 3, 12 |
| Participation | 10% | |
| **Total** | **100%** | |

# Teaching Staff

- Module Leaders:

  - Ms Heng Tok Ngee     DIT – IT2201

  - Ms Teo Bee Wah     DBI – IT2601

  - Ms Jessica Poon     DBT – IT2564

  - Ms Liz Wang     DFI – IT2621

  - Ms Sin Yuh Bing     DSF – IT2521

  - Ms Mak Tsui Ngan     DBA – IT2323