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<course_information.what?>

3

Code: ITS232/ICT200

Course: Introduction to Database Design

Credit Unit: 3

Contact Hour:

4

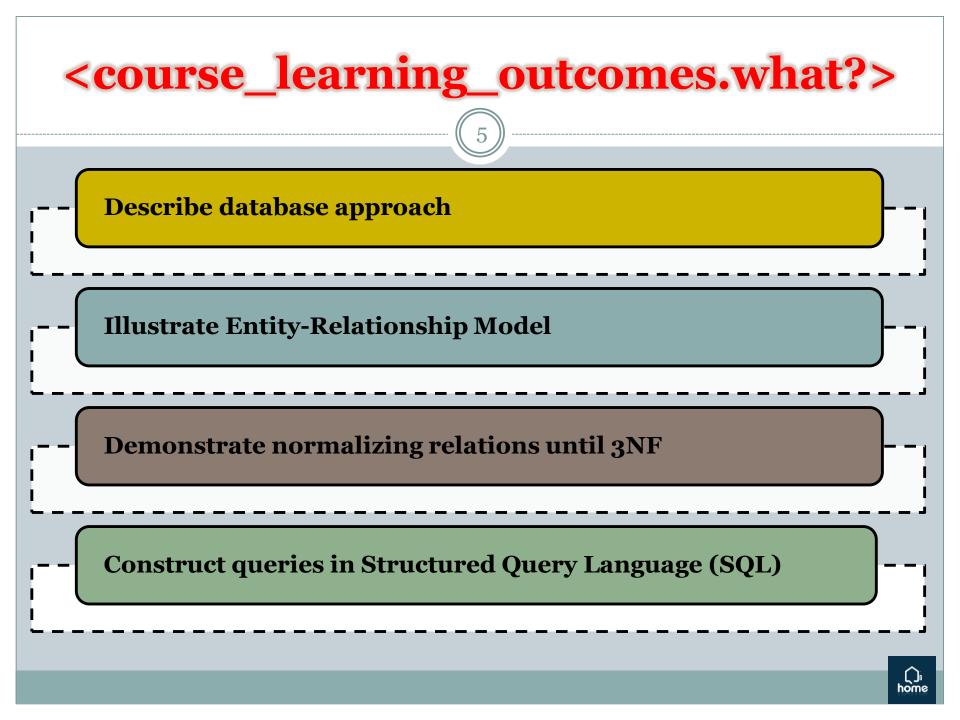
Course Status: Core Prerequisites: NONE



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In the information age today, enormous amount of data is kept in files and databases. The knowledge **to manipulate and manage** these files is beyond doubt. By using a database package, the students will be able to appreciate the needs for database systems rather than the traditional file systems.



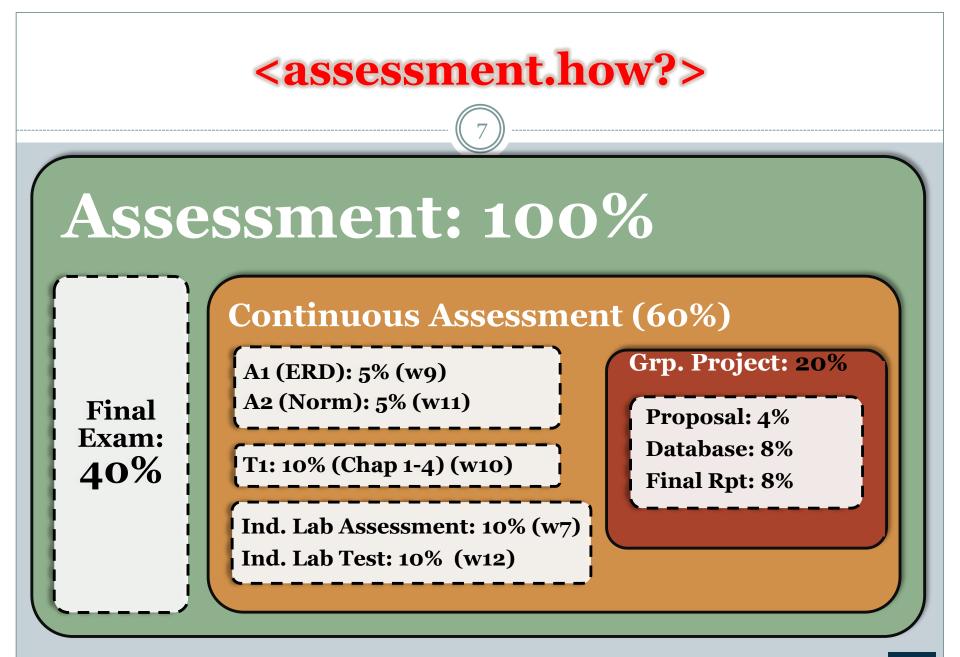


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6

CHAPTER	TOPIC
1.0	Database Concepts
2.0	Data Models
3.0	The Relational Database Model
4.0	Entity Relationship (E-R) Modeling
5.0	Normalization Of Database Tables
6.0	Database Design
7.0	Structured Query Language (NO FINAL EXAM)







<references.what?>

- Peter Rob and Carlos Coronel, *Database Systems: Design, Implementation and Management*, International Thomson Publishing (ITP), Ninth Edition, 2011
- David M.Kroenke and David J. Auer, *Database Concepts, 4th Edition*, Pearson International Edition, 2010
- Saadiah, Fauzi, Norehan, Wan Nor Amalina,
 Introduction to Database, McGraw Hill, 2006



<lab_session.what?>

[1] Lab Objectives & Introduction
 [2] Simple SQL Queries
 [3] Retrieving data from Multiple Tables
 [4] Scalar Functions and Arithmetic
 [5] Column Functions and Grouping
 [6] UNION
 [7] Using Subqueries



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10

- IBM DB2 (v9.7 win7/8, v11 win10)
 - En Azri (Juruteknik): 014 221 5144 (Bilik Peratalatan Komputer)
 - Cmd reference: http://dublintech.blogspot.my/2011/10/db2cheat-sheet.html
- MS Visio/MySQL Workbench/Oracle SQL Developer Data Modeler – design tool
 - o http://csraub.uitm.edu.my/softwarecsraub/software/

- **1.** What is **data**? Give example(s) of data.
- 2. What is **information**? Give example(s) of an information.
- 3. Describe data vs. information.
- 4. What is a **database**?
- 5. What is a Database Management System (DBMS)?
- 6. Give at least **five (5)** examples of DBMS.
- 7. What is a(n) **table/entity/relation**? Give example(s) of a table.

- 8. What is a(n) **attribute/column/field**? Give example(s) based on Question 7.
- What is a row/record/tuple? Give example(s) based on Question 8.
- **10**. What is a **connectivity of relationship**? State all types of connectivities.
- 11. What is a (1) data redundancy, (2) data inconsistency, and (3) data anomaly? How these situations affect each others?



TH4NK YoU

