RELATIONAL DATABASES

LEARNING OUTCOMES

- *ANALYSE A BUSINESS SCENARIO TO DESIGN A SUITABLE RELATIONAL DATABASE SOLUTION.*

- *DEVELOP AN APPROPRIATE NORMALISED ENTITY RELATIONSHIP MODEL FOR A BUSINESS SCENARIO.*

- *IMPLEMENT AN ENTITY RELATIONSHIP MODEL AS A PHYSICAL RELATIONAL DATABASE.*

- *DISCUSS THE CURRENT USE OF RELATIONAL DATABASES IN BUSINESS*

- *CONSTRUCT SQL STATEMENTS TO DEFINE AND MANIPULATE THE DATA IN A RELATIONAL DATABASE.*

- *DISCUSS THE CONCEPTS OF DATA PERSISTENCE AND ACID TRANSACTION MANAGEMENT.*

MODULE

- 50% CONTINUOUS ASSESSMENT
  - 30% ANALYSIS AND DESIGN OF A RELATIONAL DATABASE SYSTEM
  - 20% IMPLEMENTATION AND QUERYING OF THE RELATIONAL DATABASE SYSTEM

- 50% EXAM
  - 2 HOUR EXAM 3 QUESTIONS DO 2

MODULE

- 2 HOURS LECTURES
    - THEORY, CONCEPTS, ER MODELLING, NORMALIZATION, SQL

- 2 HOURS LAB
    - ER MODELLING, DESIGN OF SYSTEM, IMPLEMENTATION OF SYSTEM, QUERYING OF SYSTEM

MODULE

- 12 WEEKS
  - 1 WEEK INTRO
  - 4 WEEKS ER MODELLING
  - 1 WEEK NORMALISATION
  - 3 WEEKS TABLE DESIGN
  - 2 WEEKS SQL QUERIES
  - 1 WEEK EXAM PREP/REVIEW

- 12 WEEKS
  - WEEK 3 CA SPEC PROVIDED
  - WEEK 7 DESIGN HAND UP
  - WEEK 13 IMPLEMENTATION HAND UP

MODULE

- ATTENDANCE AT LECTURES AND LABS ESSENTIAL

- EACH LAB IMPLEMENTS SOME OR ALL OF WHAT YOU LEARN IN THE LECTURE

- ASK QUESTIONS

- CONSIDER A BUSINESS/HOBBY/SPORT IDEA THAT YOU COULD CREATE A DATABASE FOR YOUR CA.

- DON'T AVOID THE WORK!