

The background of the slide features a light gray gradient. It is decorated with several realistic water droplets of various sizes, some clustered in the top left and others in the bottom right. A faint, large circular pattern, resembling a ripple or a stylized sunburst, is centered in the upper half of the image.

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!