CM1603 - Database Systems

Tutorial No 1

Week 1

Task 1 - Answer the following questions.

1. Differentiate Data and Information. Give a suitable example related to a University Management System.

2. Distinguish between manual processing, file-based processing, and database processing systems.

3. What is the different between Database and Database Management System (DBMS)?

4. Briefly explain the following data models:

    a) Entity Relationship Model

    b) Relational Model

    c) Object Oriented Data Model

5. List down 5 real-world applications that use relational databases.

6. Compare and contrast the levels of abstraction in a Database Management System.

7. Why database is essential in application development?

8. Briefly explain how end users interact with a database.

Task 2 - Additional Reading:

1. What is No-SQL?

2. Find out examples for No-SQL databases.