BSc (Hons) in Information Technology – Year 1

Assignment / Group Project

Semester II

1. Project Tasks

A. Briefly describe the hypothetical scenario you have developed for the system of the selected topic (100 - 200 words)

B. Design the Database for the system
- Identify the main requirements for the system and develop a draft Requirements Analysis document (in point form)
- Identify the Data requirements to develop the Database, using the System Requirements Analysis Document
- Model the Data requirements using the Entity Relationship (ER) Model
- Use the ER Model to derive the Schema of the Database according to the Relational Data Model
- Write SQL commands to create the database tables
- Identify special performance considerations for the system if any
- Identify special security requirements if any

C. Implement the database and include some sample data to each of the tables (minimum 5 meaningful records per table)

2. Project Deliverables

- Group should prepare a report including the details of the Project Tasks mentioned in section 01 above.
- Group members should have the database of the system implemented from their own login account/ machine.

3. Requirements for the Final VIVA

- You need to have a copy of the project document with you for your individual reference during the VIVA.
- When asked to write an SQL query during the VIVA session you need to write and execute the given query based on the tables of your database. So, group members should have the database of the system implemented from their own login account/ machine.

4. Assessment Plan

- Project Report – Group Mark (40 Marks)
- Viva – Individual Mark (60 Marks)

Assessment Details

Group Marks

1) Report (20 marks)
    1) Scenario
    2) Requirements Analysis
    3) ER diagram
    4) Schema
    5) Performance Requirements
    6) Security Requirements

2) Complete Database with sample Data (20 marks)

Individual Marks (VIVA)

1) ER question (20 marks)
2) Relational Mapping (20 marks)
3) SQL query (20 marks)