

COURSE TITLE: **Database Management Systems**
Class: **BSE – 4(A&B)**
Course Instructor: **ENGR. LARAIB SIDDIQUI**
Due Date: **14-5-2023**

COURSE CODE: **CSC-220**
Shift: **Morning**
Date: **20-4-2023**
Max. Points: **8**

INSTRUCTION:

You have to complete this assignment in a group maximum of three (03) students. This assignment is based on the following PBL attributes:

- a) The problem must be ill-structured and allow for free inquiry.
- b) The problem should involve real world scenarios.
- c) The problem should require students to make reasoned decisions and to defend them (investigation and critical analysis).
- d) If used for a group activity, the problem should involve collaboration and group discussions.

You have been hired as a database consultant for a small business that sells goods. The business currently manages its inventory and sales using spreadsheets, but they want to upgrade to a database system that will allow them to better manage their data and improve their business operations. Your task is to design and develop a database system for the small business that will meet their requirements and help them achieve their goals.

Your DBMS must be:

able to store information about the small business's products, customers, and sales.
able to query and generate reports on inventory levels, sales data, and customer data.
easy to use and maintain.
secure and protect sensitive data.
scalable and able to accommodate future growth.

Note: This PBL assignment can be adapted to suit different types of small businesses, such as a restaurant, a retail store, or a service provider etc.

You will be assessed on the quality of your database system design and development.