

**Green University of Bangladesh**

**Department of Computer Science and Engineering**

**(CSE)**

**Faculty of Sciences and Engineering**

**Semester: (Summer, Year: 2025), B.Sc. in CSE (Day)**

**Super shop database system.**

**Course Title:** Database System Lab

**Course Code:** CSE 210

**Section:** 232-D3

**Student Details**

| **Name** | | **ID** |
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**Submission Date :** **08/06/2025**

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| **Lab Report Status**  **Marks: ………………………………… Signature:.....................**  **Comments:.............................................. Date:..............................** |
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**1. TITLE OF THE PROJECT**

Super shop database system.

**2. INTRODUCTION**

This project is about building a database for a Super Shop using SQL. The database will help store and manage information about products, customers, and sales in an organized way. It will make the work easier, faster, and more accurate by replacing manual records with a digital system. This system will also help the shop grow by keeping everything in order.

**3. PROBLEM STATEMENT AND MOTIVATION**

Problem statement: In many shops, data is stored manually. This causes errors, slow service, and missing data.  
Motivation: The motivation for this project is to build a system where all data is connected, easy to update, and ready for future growth.

**4. OBJECTIVES**

* Design an **Entity-Relationship Diagram (ERD)** and convert it into a fully normalized relational schema.
* Implement the relational schema using SQL to create, insert, and query the database.
* Demonstrate the use of **joins, views, triggers, stored procedures,** and **data integrity constraints** to simulate real-world operations of a super shop.

**5.TOOLS& TECHNOLOGIES**

**Tools1**: MySQL / Microsoft SQL Server.

**6. CONCLUSION**

The Super Shop Database System project provides hands-on experience in developing a real-world database solution using SQL. By covering key concepts such as normalization, constraints, relationships, and transaction simulation, the project equips students with the essential knowledge required for professional database design and implementation..

**7. E-R DIAGRAM**

