DATABASE MANAGEMENT SYSTEMS LAB

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1. Knowledge:
- Understand the fundamentals of relational databases
- Define E-R diagrams and their components
- Explain the process of converting relationships to relational tables
- Identify primary keys and foreign keys in a database

2. Comprehension:
- Interpret and analyze the structure of a Company database
- Differentiate between various types of relationships in a database
- Evaluate the importance of primary and foreign keys in maintaining data integrity

3. Application:
- Apply the concepts of E-R diagrams to design a relational database schema
- Implement database operations such as creating, viewing, altering, and dropping/truncating tables
- Create relationships between tables using primary and foreign keys

4. Analysis:
- Analyze the data within a database to identify relationships and dependencies
- Critically evaluate the structure of a database and propose improvements for optimization

5. Synthesis:
- Develop a comprehensive database design for a given scenario, including E-R diagrams and relational tables
- Construct SQL queries to view and manipulate data in a database
- Generate backup and restore strategies for database recovery

6. Evaluation:
- Assess the effectiveness of aggregate functions in retrieving and summarizing data
- Evaluate the security measures in place for maintaining the integrity of the database system.