REPORT ON GUEST LECTURE ON DATABASE MANAGEMENT SYSTEM
Date: 17/02/2025

The Department of Computer Science and Engineering (AI & ML) successfully organized a guest lecture on **Database Management Systems** from **14/02/2025 to 15/02/2025**, at the seminar hall for **II B.Tech II Semester students**. The session was conducted by **Dr B Sasidhar, Assistant Professor, GNIT** who delivered an insightful lecture covering key concepts from **Module 3 of SQL**.

During the session, the expert provided a comprehensive understanding of **basic SQL querying**, including the **SELECT and PROJECT** operations using the **WHERE clause**, along with arithmetic and logical operations. He elaborated on various **SQL functions**, such as **Date and Time, Numeric, and String conversion functions**, essential for effective data manipulation. The lecture also covered **table creation with relationships**, emphasizing the **implementation of keys and integrity constraints** to ensure data consistency.

Further, Mr. Kesava Rao explained **nested queries and subqueries**, demonstrating their significance in complex data retrieval. The session also focused on **grouping, aggregation, and ordering** techniques, helping students understand how to organize and analyze data efficiently. Additionally, he discussed the **implementation of different types of joins**, which are crucial for combining data from multiple tables. The lecture concluded with insights into **views (both updatable and non-updatable) and relational set operations**, providing students with a deeper understanding of database functionalities.

Conclusion:

The guest lecture was highly engaging and interactive, allowing students to enhance their SQL knowledge through practical examples and real-time applications. The session significantly contributed to their academic learning and practical exposure in **Database Management Systems**.

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