PRAGATI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF CSE (DATA SCIENCE)
DATA ANALYTICS CLUB

05-08-2025

A Report on the Data Analytics Club Activity

As part of the technical activities under the **Data Analytics Club** of the Department of CSE (Data Science), this event was conducted.

Name of the Event: Technical Seminar

Name of the Topic: SQL(Structured Query Language)

Name of the Speaker: 1.N.Lakshmi Pravallika (23A31A4413)

2.S.Kiranmai (23A31A4418)

Date of the Event: 05-08-2025

Time of the Event: 11:00 AM TO 12:00 PM

Venue of the Event: CF–5(TECHBLOCK)

A total of 50 students attended this event. All the students have actively participated in the event.

Brief write-up of the Event:

The session emphasized SQL as the backbone of database-driven decision-making. Students got hands-on practice in executing queries. Highlighted the real-world applications of SQL in data analysis, software development, and business intelligence.
- Using aggregate functions for summarizing data
- Writing queries to filter, sort, group, and join tables

Conducted live demonstrations including:

Explained how SQL is used to retrieve and manipulate data efficiently from relational databases.
- Basic commands: SELECT, INSERT, UPDATE, DELETE
- Constraints
- Data types

Speakers delivered an insightful presentation covering SQL fundamentals such as:

The seminar began with a warm welcome and an introduction to the importance of SQL (Structured Query Language) in managing and analyzing data

HIGHLIGHTS AND KEY TAKEAWAYS:

- Introduction to SQL and its importance
- Core SQL Concepts Explained
- Hands-OnDemonstrations
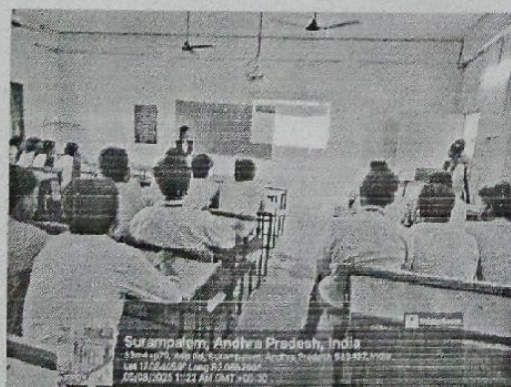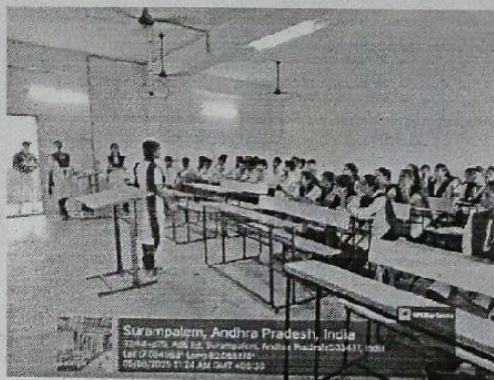- Real world Applications
- Interactive & Engaging Learning

POST-EVENT FEEDBACK:

Participants found the session highly informative and engaging, especially those who were new to the concepts of SQL and database management. The practical guidance on writing SQL queries, understanding database structures, and applying commands to real-world datasets was well appreciated. The session helped demystify SQL as something complex and technical, and instead position edit as an achievable and highly valuable skill for academic projects, career opportunities, and industry applications.

Questions Raised by Students:

- Can we write SQL Queries to extract data from large data sets efficiently?
- How the SQL is used in real-world jobs liked at analysis or software development?
- What are primary keys and foreign keys, and why they are important?
- What happens if we don't use groupby correctly ?
- How do we handle null values in SQL queries?

PHOTOGRAPHS FROM THE EVENT:

HoD-CSE (Data Science)