



Yashoda Shikshan Prasarak Mandal's

YASHODA TECHNICAL CAMPUS, SATARA **FACULTY OF ENGINEERING**

NH-4, Wadhe Phata, Satara., Tele Fax- 02162-271238/39/40

Website- www.yspmsatara.co.in Email-admin@yspmsatara.co.in

Approved by AICTE- New Delhi, Govt. of Maharashtra (DTE, Mumbai)

Affiliated to DBATU Lonere,



Database System LAB CA-1 Activity

Name of Activity: -SQL Query Writing using AI

1. Individual Work

- Students can work individually.

2. Problem Statements (decide your own)

- Consider 5 **database schemas** (e.g., Student, Employee, Library, E-commerce). Each database schema should contain at least 3 tables.
- Frame **5 problem statements for each schema** like: (Use of **Key constraints, subqueries, Aggregate functions, set operations, joins** is mandatory) example queries are----
 - Retrieve names of students enrolled in "DBMS".
 - Find employees earning more than average salary.
 - List books issued but not returned within due date.
 - Display customers who placed more than 2 orders.

3. AI Interaction

- Students must use **AI tools (like ChatGPT, Copilot, etc.)** to generate SQL queries.
- They must refine prompts if the first response is wrong/incomplete.

4. Execution & Verification

- Students execute queries in a DBMS MySQL
- They check correctness of results.

5. Report Submission

- Each student/group submits a short report containing:
 - Problem statement
 - SQL query (final version)
 - Output screenshot
 - Reflection (How AI helped? What corrections were needed?)(**in your own words**)