



**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY,
EAST DELHI CAMPUS,
SURAJMAL VIHAR-110092**

Semester: 4th			
Paper code: AIDS254/AIML254/IOT254	L	T/P	Credits
Subject: Database Management System Lab	0	2	1

Marking Scheme

1. Teachers Continuous Evaluation: As per university examination norms from time to time
2. End term Examination: As per university examination norms from time to time

INSTRUCTIONS TO EVALUATORS: Maximum Marks: As per university norms

1. This is the practical component of the corresponding theory paper.
2. The practical list shall be notified by the teacher in the first week of the class commencement under the intimation to the office of the HOD/ Institution in which the appear is being offered from the list of practicals below.
3. Instructors can add any other additional experiments over and above the mentioned in the experiment list which they think is important.
4. At least 8 experiments must be performed by the students.

Course Objectives:

1. To create a database as per the proper rules.
2. To organize, maintain and efficiently, and effectively retrieve information from a database.

Course Outcomes:

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|------------|--|
| CO1 | Apply Database management principles to fetch and maintain details efficiently and effectively from the databases of the real world. |
| CO2 | Use the basics of SQL, MongoDB commands and construct queries using in database creation and interaction. |

CO/PO	PO01	PO02	PO03	PO04	PO05	PO06	PO07	PO08	PO09	PO10	PO11	PO12
CO1	2	3	3	2	2	1	1	1	1	1	1	2
CO2	2	3	3	2	3	-	-	-	-	-	-	2

LIST OF EXPERIMENTS:

1. Study and practice various database management systems like MySQL/Oracle/PostgreSQL/SQL Server and others.
2. Implement simple queries of DDL and DML.
3. Implement basic queries to Create, Insert, Update, Delete and Select Statements for two different scenarios (For instance: Bank, College etc.)
4. Implement queries including various functions- mathematical, string, date etc.
5. Implement queries including Sorting, Grouping and Subqueries- like any, all, exists, not exists.
6. Implement queries including various Set operations (Union, Intersection, Except etc.).
7. Implement various JOIN operations- (Inner, Outer).



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8. Write a PL/SQL program using FOR loop to insert ten rows into a database table.
9. Given the table EMPLOYEE (Emp No, Name, Salary, Designation, DeptID), write a cursor to select the five highest-paid employees from the table.
10. Illustrate how you can embed PL/SQL in a high-level host language such as C/Java And demonstrates how a banking debit transaction might be done.

The students should be motivated to make a project using MySql and MongoDB.