Vivekanand Education Society's
Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Department of Artificial Intelligence and Data Science

Database Management Systems Labs Journal

Roll No.	
Name	
Class	D6AD
Subject	DBMS Lab
Grade:	

1. **Lab Objectives:**

	Description
1	To learn the basic concepts of Object-oriented Programming
2	To study Java Programming Language.
3	To study various concepts of Java Programming like multithreading, exception Handling, packages etc
4	To explain components of GUI based programming

2. **Lab Outcome:**

LO	Description
LO 1	Design ER /EER diagrams and convert to relational models for the real world application.
LO 2	Apply DDL, DML, DCL and TCL commands
LO 3	Write simple and complex queries
LO 4	Use PL / SQL Constructs.
LO 5	Demonstrate the concept of concurrent transactions execution and frontend-backend connectivity

3. LO/PO Mapping

LO	PO1	PO2	PO3	PO4	PO5	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
LO1	1	3	2	1	1	1	2	1	1	2	2	1
LO2	-	3	3	2	2	1	2	1	2	3	2	2
LO3	-	3	3	2	2	1	2	1	2	3	1	3
LO4	-	2	2	1	2	-	1	1	-	1	-	2
LO5	1	3	2	2	2	1	2	1	1	3	1	2

DBMS Lab

Name: _____

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List of Experiments:

Sr No	List of Experiments	LO
1	Identify the case study and detail **statement of problem** and draw **Entity-Relationship (ER) / Extended Entity-Relationship (EER)** Model Using Draw.io.	LO1
2.	Mapping **ER/EER to the Relational schema model and creating a schema diagram for your system.**	LO1, LO2
3	Create a database using **Data Definition Language (DDL)** and apply required **Integrity Constraints** for the specified system.	LO2, LO3
4	Populate database using **DML Commands** for your specified System.	LO2, LO3
5	Perform **Simple queries, string manipulation operations.**	LO2, LO3
6	Write **Nested queries using (in, not in some any exist nt exits, with clause)**	LO2, LO3
7	Implement various types of **Joins and Views.**	LO3
8	Demonstrate **DCL** and **TCL** commands.	LO2
9	Implementation of **Functions and Stored Procedure** in PL-SQL.	LO4
10	Implement different types **of triggers.**	LO4
11	Implementation and demonstration of **Transaction and Concurrency control** techniques using locks.	LO2, LO4, LO5
12	Implement Database Connectivity (JDBC.ODBC)	LO2, LO3, LO5