

LABORATORY PRACTICAL PLANNING (LP)

Academic Year: 2026-27 (ODD)

Institute Name: K. K. Wagh Polytechnic, Nashik

Program and Code: Information Technology (IF)

Course Name: Database Management System

Name of Faculty: Ms. S. P. Chivate

Date: 01/07/2026

MSBTE Code: 0078

Course Code & Abbr.: 313302 (DMS)

Course Index: 302 **Learning Hrs.** 30

Semester: 3rd **Scheme:** K

CLASS: SYIF (Param)

● Teaching-Learning & Assessment Scheme:

Course Code	Course Title & Abbr	Course Category	Learning Scheme								Assessment Scheme										Total Marks
			Actual Contact Hrs/Week			SLH	NLH	Credits	Paper	Duration (Hrs.)	Theory			Based on LL & TSL Practical				Based on SL			
											FA TH		SA TH	Total		FA-PR		SA-PR		SLA	
			CL	TL	LL						Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	
			313302	Database Management System (DMS)	DSC	3	1	4	2	10	5	3	30	70	100	40	50	25	25#	10	

Abbreviations: CL- Class Room Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS – Indian Knowledge System, SLA - Self Learning Assessment
Legends: @ Internal Assessment, # External Assessment, *# on Line Examination, @\$ Internal Online Examination

● COURSE LEVEL LEARNING OUTCOMES (COS)

By learning course, Database Management System (DMS-313302) Second Year students will be able to achieve & demonstrate the following COs on completion of course based learning.

- CO1 - Explain concept of database management system.
- CO2 - Design the database for given problem.
- CO3 - Manage database-using SQL.
- CO4 - Implement PL/SQL codes for given application.
- CO5 - Apply security and backup methods on database.

● COs, Practical Laboratory Learning Outcome (LLOs) and Mapping:

Pr. No	LLO	Name of Experiments/Assignment/Sheet/ Job/ Project Activity	Planned Date	Performance Date	Remark	Related self-learning (if any)
	LLO 1.1	*Install the provided database software	A-01/07/2026 B-02/07/2026 C-03/07/2026	A- B- C-		
	LLO 2.1	*Note :- Ensure to Carry out following activities before creating database: - Draw ER diagram for given problem - Normalize the relation up to 3NF 1) Create Database 2) Create tables for the given application 3)Assign Primary key for created table	A-07/07/2026 B-06/07/2026 C-07/07/2026	A- B- C-		

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Pr. No	LLO	Name of Experiments/Assignment/Sheet/ Job/ Project Activity	Planned Date	Performance Date	Remark	Related self-learning (if any)
	LLO 3.1	* Write queries using DDL Statements for following operations – 1)Create, alter, truncate, drop ,rename table 2) Apply Key Constraints for suitable relation	A-08/07/2026 B-09/07/2026 C-10/07/2026	A- B- C-		
	LLO 4.1	* Write queries using DML Statements for following operations – 1) Select, Insert, delete, update, table 2) Apply Key Constraints for suitable relation.	A-14/07/2026 B-13/07/2026 C-14/07/2026	A- B- C-		
	LLO 5.1	*Write queries using DCL Statements for following operations – 1)Grant, Revoke	A-15/07/2026 B-16/07/2026 C-17/07/2026	A- B- C-		
	LLO 6.1	* Write queries using TCL Statements for following operations – 1) Commit, Rollback, Save point	A-21/07/2026 B-20/07/2026 C-21/07/2026	A- B- C-		
	LLO 7.1	Write Queries using built-in Arithmetic operators.	A-22/07/2026 B-23/07/2026 C-24/07/2026	A- B- C-		
	LLO 8.1	Apply built-in Logical operators on given data	A-28/07/2026 B-27/07/2026 C-28/07/2026	A- B- C-		
	LLO 9.1	Apply built-in relational operators on given data	A-29/07/2026 B-30/07/2026 C-31/07/2026	A- B- C-		
	LLO 10.1	* Use following Set operators to perform different operations.	A-04/08/2026 B-03/08/2026 C-04/08/2026	A- B- C-		

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Pr. No	LLO	Name of Experiments/Assignment/Sheet/ Job/ Project Activity	Planned Date	Performance Date	Remark	Related self-learning (if any)
	LLO 11.1	Write SQL Queries using built-in String functions	A-05/08/2026 B-06/08/2026 C-07/08/2026	A- B- C-		
	LLO 12.1	Write SQL Queries using built-in Arithmetic functions	A-18/08/2026 B-13/08/2026 C-14/08/2026	A- B- C-		
	LLO 13.1	Write Queries using built-in Date and Time functions	A-19/08/2026 B-17/08/2026 C-18/08/2026	A- B- C-		
	LLO 14.1	Write Queries using SQL built-in Aggregate functions	A-25/08/2026 B-20/08/2026 C-21/08/2026	A- B- C-		
	LLO 15.1	* Implement Queries Using different Where, Having, Group by, & Order by clauses.	A-01/09/2026 B-24/08/2026 C-25/08/2026	A- B- C-		
	LLO 16.1	*Implement SQL queries for Inner and Outer Join	A-02/09/2026 B-27/08/2026 C-28/08/2026	A- B- C-		
	LLO 17.1	* Create and Execute Views, Sequences and Indexes in SQL.	A-08/09/2026 B-03/09/2026 C-04/09/2026	A- B- C-		
	LLO 18.1	* Write a PL/SQL program using Conditional Statements- if, if then else ,nested if, if else if else	A-09/09/2026 B-07/09/2026 C-08/09/2026	A- B- C-		
	LLO 19.1	* Write a PL/SQL program using Iterative Statements- loop, for, do-while, while	A-15/09/2026 B-10/09/2026 C-11/09/2026	A- B- C-		
	LLO 20.1	Write a PL/SQL program using Sequential Control- switch, continue, goto	A-16/09/2026 B-17/09/2026 C-15/09/2026	A- B- C-		

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Pr. No	LLO	Name of Experiments/Assignment/Sheet/ Job/ Project Activity	Planned Date	Performance Date	Remark	Related self-learning (if any)
	LLO 21.1	* Write a PL/SQL code to implement implicit & explicit cursors	A-22/09/2026 B-21/09/2026 C-18/09/2026	A- B- C-		
	LLO 22.1	* Write a PL/SQL program based on Exception Handling (Pre-defined exceptions)	A-23/09/2026 B-24/09/2026 C-22/09/2026	A- B- C-		
	LLO 23.1	* Write a PL/SQL program based on Exception Handling (user defined exceptions)	A-29/09/2026 B-28/09/2025 C-25/09/2025	A- B- C-		
	LLO 24.1	* Write a PL/SQL code to create Procedures and stored procedures	A-30/09/2026 B-01/10/2026 C-29/09/2026	A- B- C-		
	LLO 25.1	* Write a PL/SQL code to create functions.	A-06/10/2026 B-05/10/2026 C-06/10/2026	A- B- C-		
	LLO 26.1	* Write a PL/SQL code to create triggers for given database.	A-07/10/2026 B-08/10/2026 C-09/10/2026	A- B- C-		
		* Beyond Syllabus (Flashback, Purge commands)	A-15/10/2026 B-15/10/2026 C-16/10/2026	A- B- C-		

ASSESSMENT METHODOLOGIES/TOOLS**A. Formative assessment (Assessment for Learning) (FA-TH)**

- Continuous assessment based on process and product related performance indicators. Each practical will be assessed considering
 - 60% weightage is to process
 - 40% weightage to product

B. Summative Assessment (Assessment of Learning) (SA-TH)

- End semester examination, Lab performance, Viva voce

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- Implement PL/SQL code for relevant topics suggested by the teacher.
- Complete any one course related to Database Management System on Infosys Springboard platform.

Assignment

- Solve an assignment on any relevant topic given by the teacher.

Micro project

- Develop a database for restaurant management system. The restaurant maintain catalogue for the list of food items and generate bill for the ordered food.
- Prepare Invoice management system for electricity bill generation. Accept meter reading as inputs and generate respective bill amount for the same.
- Design a database for registration and admission of patient for Hospital management system, draw ER diagram and normalize the database up to 3NF.
- Any topic suggested by teacher.

Ms. S. P. Chivate
(Name & Signature of Staff)

Ms. M. S. Karande
(Name & Signature of HOD)