

**DATABASE MANAGEMENT SYSTEMS LAB****Course Code: CSE 324****Credit Unit: 01****Total Hours: 20****Course Objective:**

To write and execute SQL statements, understand design of backend applications

**Software Required:** Oracle 9i**Course Contents:**

Lab Experiments are based on the course Database Management Systems (CSE 304)

**Topics covered in lab will include the following Programs: (2 Hours)**

1. Using create command design three specific table and the table structure is given below.

Table name- Book

ISBN	TITLE	PUB_YEAR	UNIT_PRICE	AUTHOR_NAME	PUB_NAME
1001	Oracle	2004	399	Arora	phi
1002	Dbms	2004	400	Basu	technical
2001	Dos	2003	250	Sinha	nirali
2002	Adbms	2004	450	Basu	technical
2003	Unix	2000	300	Kapoor	scitech

Table name- Author

AUTHOR_NAME	COUNTRY
Arora	U.S.A.
Kapoor	Canada
Basu	India
Sinha	India

Table name- Publisher

PUB_NAME	PUB_ADD1
Phi	Delhi
Technical	Pune mainmarket
Nirali	Mumbai
Scitech	Chennai

2. Write the SQL query to find the name of all publisher from Book relation. **(2 Hours)**
3. Write the SQL query to display the name of all publisher using distinct clause. **(2 Hours)**
4. Write the SQL query to find the names of author from the author table where the first two characters of names are 'ba'. **(2 Hours)**
5. Write the SQL query to display title of books published in year 2004. **(2 Hours)**
6. Write the SQL query to display title of books having price between 300 to 400. **(1 Hour)**
7. Write the SQL query to display title of books having price between 300 to 400 using operators. **(1 Hour)**
8. Write the SQL query to display title of books with author\_name and country published in year 2004. **(1 Hour)**
9. Write the SQL query to display all title and (unit\_price\*10) as an attribute from book table using arithmetic expression. **(01 Hour)**
10. Write the SQL query to add the new column in all three tables. **(1 Hour)**
11. Study the concept of Views and their utility in DBMS, write the SQL query to design a view. **(1 Hour)**
12. Write the SQL query to make the attribute ISBN as a primary key in Book relation. **(1 Hour)**
13. Write the SQL query to display the all the titles of Books with price and year in descending order. **(1 Hour)**

14. Write the SQL query to study the use of Delete and Drop command in DBMS. **(1 Hour)**

15. Study the concept of Triggers, cursors and stored procedures in DBMS. **(1 Hour)**

### Course Outcomes:

- At the end of lab session students would be able to design the Database application for the real life projects.
- Students would be able to perform insertion, deletion and updation operation on Databases.

### Examination Scheme:

IA			EE			
A	PR	Practical Based Test	Major Experiment	Minor Experiment	LR	Viva
5	10	15	35	15	10	10

Note: IA – Internal Assessment, EE - External Exam, A - Attendance, PR - Performance, LR – Lab Record, V – Viva.