

<b>II YEAR SEM-1 B.Tech CSE</b>	<b>LAB</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CODE:CS2703	DBMS LAB	0	0	2	2

<b>Experiment #</b>	<b>Topic</b>	<b># of Hours( Lab Session #)</b>
1	Drawing ER diagrams: Design issues	4 (Lab-1)
2	To implement SQL DDL commands: Create, Alter, Drop, Truncate	4 (Lab-2)
3	To implement constraints: Primary Key, Foreign Key, Unique Key, Null, Not Null	2 (Lab-3)
4	To implement queries involving NULL operations	2 (Lab-3)
5	To learn about indexes	1 (Lab-4)
6	To implement DML command: SQL Select(Group by, Order by, Limit)	3 (Lab-4)
7	To implement DML command: SQL update, delete and insert	4 (Lab-5)
8	To implement nested queries and join queries: Inner join, left join, right join and full join	4 (Lab-6)
9	To implement views	2 (Lab-7)
10	Getting familiar with PL/SQL	2 (Lab-7)
11	Write programs using PL/SQL block and PL/SQL procedure ( 4 programs)	4 (Lab-8)
12	Getting familiar with PL/SQL cursor (3 programs)	2 (Lab-9)
13	Writing PL/SQL functions (2 programs)	2 (Lab-9)
14	Getting familiar with triggers and implementing triggers (3 programs)	4 (Lab-10)

**Tools required:**

1. MySQL
2. Oracle 11g

**Reference Books**

1. RamezElmasri, Shamkant B. Navathe ,Fundamentals of Database (7th Edition), Paperback, 2007
2. Theorey T J, Database Modeling & Design, 2/e, Morgan Kaufmann Publishers, 1994.
3. H. GarciaMolina, J. D. Ullman and J. Widom, Database Systems The Complete Book, 1/e, Pearson Education, 2007