❖ **ASSIGNMENT NO :3**

AIM: design atleast 10 SQL queries for suitable database application using SQL/DML statement:all types of joints,sub-query ands view.

(base) sspm@sspm:~$ sudo su [sudo] password
for sspm: root@sspm:/home/sspm# service start
mysqlid start
start: unrecognized service
root@sspm:/home/sspm# mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.30-0ubuntu0.20.04.2 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database lib; Query
OK, 1 row affected (0.21 sec)

mysql> use lib;
Database changed
mysql> create table book(book_id int,book_name varchar(25),author varchar(35),publisher
varchar(30));
Query OK, 0 rows affected (0.60 sec)

mysql> desc book;
+-----------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
book_id	int	YES		NULL	
book_name	varchar(25)	YES		NULL	
author	varchar(35)	YES		NULL	
publisher	varchar(30)	YES		NULL	
+-----------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> insert into
book(book_id,book_name,author,publisher)values(1,'DBMS','Korth','MCGrawhill'),

(2,'SSPM','pressman','Addison'),(3,'ISEE','Rahul de','Wileyindia'),(4,'Computer Network','J.S.Katre','Veenay Gandhi');
Query OK, 4 rows affected (0.13 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select * from book;
+---------+------------------+-----------+---------------+
| book_id | book_name | author | publisher |
+---------+------------------+-----------+---------------+
1	DBMS	Korth	MCGrawhill
2	SSPM	pressman	Addison
3	ISEE	Rahul de	Wileyindia
4	Computer Network	J.S.Katre	Veenay Gandhi
+---------+------------------+-----------+---------------+
4 rows in set (0.00 sec)

mysql> create table stud(roll_no int,name varchar(15),book_name varchar(25));
Query OK, 0 rows affected (0.55 sec)

mysql> insert into stud(roll_no,name,book_name)values(201,'tejasvi','DBMS'),
(202,'siddhu','Computer Network'),(203,'kriss','Mobile Computing'),(204,'omkar','Data Structure');
Query OK, 4 rows affected (0.13 sec) Records:
4 Duplicates: 0 Warnings: 0

mysql> select * from stud;
+---------+---------+------------------+
| roll_no | name | book_name |
+---------+---------+------------------+
201	rohit	DBMS
202	siddhu	Computer Network
203	kriss	Mobile Computing
204	omkar	Data Structure
+---------+---------+------------------+
4 rows in set (0.00 sec)

mysql> select book.book_id,author from book inner join stud on
book.book_name=stud.book_name;
+---------+-----------+
| book_id | author |
+---------+-----------+
| 1 | Korth |
| 4 | J.S.Katre |
+---------+-----------+ 2
rows in set (0.00 sec)

mysql> select book.book_id,book.book_name,book.author,stud.roll_no,stud.name from book left outer join stud on book.book_name=stud.book_name; +---------+------------------+----------+---------+--------+

| book_id | book_name | author | roll_no | name |

+---------+------------------+----------+---------+---------+ |
1 | DBMS | Korth | 201 | rohit|
2	SSPM	pressman	NULL	NULL
3	ISEE	Rahul de	NULL	NULL
4	Computer Network	J.S.Katre	202	siddhu
+---------+------------------+----------+---------+---------+

4 rows in set (0.00 sec)

mysql> select book.book_id,book.book_name,stud.roll_no from book right outer join stud on book.book_name=stud.book_name;

+---------+------------------+---------+

| book_id | book_name | roll_no |

+---------+------------------+---------+

1	DBMS	201
4	Computer Network	202
NULL	NULL	203
NULL	NULL	204

+---------+------------------+---------+

4 rows in set (0.00 sec)

mysql> create view v2 as select roll_no,book_id,name from book,stud;
Query OK, 0 rows affected (0.16 sec)

mysql> select * from v2;

+---------+---------+---------+

| roll_no | book_id | name |

+---------+---------+---------+

201	4	rohit
201	3	rohit
201	2	rohit
201	1	rohit
202	4	siddhu
202	3	siddhu
202	2	siddhu
202	1	siddhu
203	4	kriss
203	3	kriss
203	2	kriss
203	1	kriss
204	4	omkar
204	3	omkar

```
|   204 |      2 | omkar |
|   204 |      1 | omkar |
+---------+---------+---------+ 16
rows in set (0.00 sec)

mysql> select book_name from book where book where book_id=(select book_id where
author='korth');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
your MySQL server version for the right syntax to use near 'where book_id=(select book_id where
author='korth')' at line 1
mysql> select book_name from book where book_id=(select book_id where author='korth'); +------
-----+
| book_name |
+-----------+
| DBMS     |
+-----------+
1 row in set (0.02 sec)
```