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Roll No:CO3B06

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**ASSIGNMENT:-3**

**AIM:** Design atleast 10 SQL queries for suitable database application using SQL/DML statements all types of joints,sub-query and 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 11

Server version: 8.0.39-0ubuntu0.20.04.1 (Ubuntu) Copyright (c) 2000, 2024, Oracle and/or its affiliates.

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

mysql> create database library; Query OK, 1 row affected (0.10 sec) mysql> use library;

Database changed

**Create:** mysql> create table book(book\_name varchar(10),book\_id int(20),author varchar(10),publisher varchar(10));

Query OK, 0 rows affected, 1 warning (0.59 sec)

mysql> select \* from book;

Empty set (0.00 sec)

**Show table:**

mysql> desc book;

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

| Field | Type | Null | Key | Default | Extra |

+-----------+-------------+------+-----+---------+-------+ | book\_name | varchar(10) | YES | | NULL | |

| book\_id | int | YES | | NULL | |

| author | varchar(10) | YES | | NULL | |

| publisher | varchar(10) | YES | | NULL | |

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

4 rows in set (0.00 sec)

**Insert:** mysql> insert into book values('CNS',1005,'Rahul de','addison'); Query OK, 1 row affected (0.45 sec)

mysql> insert into book values('moonstone',2026,'Wcollins','emily'); Query OK, 1 row affected (0.09 sec)

mysql> insert into book values('padmavat',1110,'jayasi','malik');

Query OK, 1 row affected (0.08 sec)

mysql> select \* from book;

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

| book\_name | book\_id | author | publisher |

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

| CNS | 1005 | Rahul de | addison |

| moonstone | 2026 | Wcollins | emily |

| padmavat | 1110 | jayasi | malik |

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

3 rows in set (0.00 sec)

**Create Second Table :** mysql> create table stud(roll\_no int(10),name varchar(20),book\_name varchar(20)); Query OK, 0 rows affected, 1 warning (0.57 sec)

**Insert:** mysql> insert into stud values(1,'Raj','moonstone'); Query OK, 1 row affected (0.10 sec) mysql> insert into stud values(2,'Isha','CNS');

Query OK, 1 row affected (0.10 sec)

mysql> insert into stud values(3,'Tanvi','padmavat');

Query OK, 1 row affected (0.08 sec)

mysql> select \* from stud;

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

| roll\_no | name | book\_name |

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

| 1 | Raj | moonstone |

| 2 | Isha | CNS |

| 3 | Tanvi | padmavat |

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

3 rows in set (0.00 sec)

**Inner Join:**

mysql> select book.book\_name,author from book inner join stud on

book.book\_name=stud.book\_name;

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

| book\_name | author |

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

| moonstone | Wcollins |

| CNS | Rahul de |

| padmavat | jayasi |

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

3 rows in set (0.00 sec)

**Left Inner Join:** 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 |

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

| 1005 | CNS | Rahul de | 2 | Isha |

| 2026 | moonstone | Wcollins | 1 | Raj |

| 1110 | padmavat | jayasi | 3 | Tanvi |

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

3 rows in set (0.00 s

**Right Inner Join:** mysql> select book.book\_id,book.book\_name,book.author,stud.roll\_no,stud.name from book right outer join stud on book.book\_name=stud.book\_name;

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

| book\_id | book\_name | author | roll\_no | name |

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

| 2026 | moonstone | Wcollins | 1 | Raj |

| 1005 | CNS | Rahul de | 2 | Isha |

| 1110 | padmavat | jayasi | 3 | Tanvi |

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

3 rows in set (0.00 sec)

**Create View:** mysql> create view v2 as select roll\_no,book\_id,name from book,stud; Query OK, 0 rows affected (0.13 sec)

mysql> select \* from v2; +---------+---------+-------+

| roll\_no | book\_id | name |

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

| 1 | 1110 | Raj |

| 1 | 2026 | Raj |

| 1 | 1005 | Raj |

| 2 | 1110 | Isha |

| 2 | 2026 | Isha |

| 2 | 1005 | Isha |

| 3 | 1110 | Tanvi |

| 3 | 2026 | Tanvi |

| 3 | 1005 | Tanvi |

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

9 rows in set (0.00 sec)

**Subquery Count:**

mysql> select book\_name from book where book\_id=(select book\_id where author='jayasi'); +-----------+

| book\_name |

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

| padmavat |

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

1 row in set (0.00 sec)