**Practical No : 03**

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**RollNo:**CO3B33 **Batch :** B3

**Aim :**Design 10 SQL quries for suitable database application using DML statement all types of join sub query view.

**QUERIES :**

(base) sspm@sspm:~$ sudosu

[sudo] password for sspm:

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 9

Server version: 8.0.39-0ubuntu0.22.04.1 (Ubuntu)

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

mysql> create database Lib; Query OK, 1 row affected (0.11 sec) mysql> use Lib; Database changed

mysql> create table book(book\_idint,book\_namevarchar(25),author varchar(35),publisher varchar(30));

Query OK, 0 rows affected (0.47 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,'SSP

M','Pressman','Addison'),(3,'ISEE','Rahul De','Wileyindia'),(4,'Computer

Netwok','J.S.Katre','Veenay Gandhi'),(5,'Computer Graphics','KusumLata','Rishabh

Anand'),(6,'Engineering Chemistry','ManishaAgarwal','Khanna'),(7,'Mobile

Computing','VinaySinghal','Meerut'),(8,'Data Structure','SharadVerma','NishaRathod');

Query OK, 8 rows affected (0.05 sec) Records: 8 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 Netwok | J.S.Katre | Veenay Gandhi |

| 5 | Computer Graphics | KusumLata | RishabhAnand |

| 6 | Engineering Chemistry | Manisha Agarwal | Khanna |

| 7 | Mobile Computing | VinaySinghal | Meerut |

| 8 | Data Structure | SharadVerma | NishaRathod |

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

8 rows in set (0.00 sec) mysql> create table stud(roll\_noint,namevarchar(15),book\_namevarchar(25)); Query OK, 0 rows affected (0.59 sec)

mysql> insert into

stud(roll\_no,name,book\_name)values(301,'Ekta','DBMS'),(302,'Sakshi','Computer Network'),(303,'Siddhi','Mobile Computing'),(304,'Nandini','ISEE'),(305,'Teju','Data Structure'),(306,'Tanuja','Computer Graphics');

Query OK, 6 rows affected (0.08 sec) Records: 6 Duplicates: 0 Warnings: 0 mysql> select\*from stud;

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

| roll\_no | name | book\_name |

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

| 301 | Ekta | DBMS |

| 302 | Sakshi | Computer Network |

| 303 | Siddhi | Mobile Computing |

| 304 | Nandini | ISEE |

| 305 | Teju | Data Structure |

| 306 | Tanuja | Computer Graphics |

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

6 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 |

| 3 | Rahul De |

| 5 | KusumLata |

| 7 | VinaySinghal |

| 8 | SharadVerma |

+---------+---------------+ 5 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 | 301 | Ekta |

| 2 | SSPM | Pressman | NULL | NULL |

| 3 | ISEE | Rahul De | 304 | Nandini |

| 4 | Computer Netwok | J.S.Katre | NULL | NULL |

| 5 | Computer Graphics | KusumLata | 306 | Tanuja |

| 6 | Engineering Chemistry | Manisha Agarwal | NULL | NULL |

| 7 | Mobile Computing | VinaySinghal | 303 | Siddhi |

| 8 | Data Structure | SharadVerma | 305 | Teju |

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

8 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 | 301 |

| NULL | NULL | 302 |

| 7 | Mobile Computing | 303 |

| 3 | ISEE | 304 |

| 8 | Data Structure | 305 |

| 5 | Computer Graphics | 306 |

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

6 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 (2.55 sec) mysql> select\*from v2;

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

| roll\_no | book\_id | name |

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

| 306 | 1 | Tanuja |

| 305 | 1 | Teju |

| 304 | 1 | Nandini |

| 303 | 1 | Siddhi | | 302 | 1 | Sakshi |

| 301 | 1 | Ekta |

| 306 | 2 | Tanuja |

| 305 | 2 | Teju |

| 304 | 2 | Nandini |

| 303 | 2 | Siddhi | | 302 | 2 | Sakshi |

| 301 | 2 | Ekta |

| 306 | 3 | Tanuja |

| 305 | 3 | Teju |

| 304 | 3 | Nandini |

| 303 | 3 | Siddhi | | 302 | 3 | Sakshi |

| 301 | 3 | Ekta |

| 306 | 4 | Tanuja |

| 305 | 4 | Teju |

| 304 | 4 | Nandini |

| 303 | 4 | Siddhi | | 302 | 4 | Sakshi |

| 301 | 4 | Ekta |

| 306 | 5 | Tanuja |

| 305 | 5 | Teju |

| 304 | 5 | Nandini |

| 303 | 5 | Siddhi | | 302 | 5 | Sakshi |

| 301 | 5 | Ekta |

| 306 | 6 | Tanuja |

| 305 | 6 | Teju |

| 304 | 6 | Nandini |

| 303 | 6 | Siddhi |

| 302 | 6 | Sakshi | | 301 | 6 | Ekta |

| 306 | 7 | Tanuja |

| 305 | 7 | Teju |

| 304 | 7 | Nandini |

| 303 | 7 | Siddhi |

| 302 | 7 | Sakshi | | 301 | 7 | Ekta |

| 306 | 8 | Tanuja |

| 305 | 8 | Teju |

| 304 | 8 | Nandini |

| 303 | 8 | Siddhi |

| 302 | 8 | Sakshi |

| 301 | 8 | Ekta |

+---------+---------+---------+ 48 rows in set (0.00 sec) 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)