Assignment 4: JOINS SUB-QUERY AND VIEWS.

[admin@localhost ~]$ su

Password:

[root@localhost admin]# systemctl start mysqld.service

[root@localhost admin]# mysql

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 2

Server version: 5.5.33a-MariaDB MariaDB Server

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

MariaDB [(none)]> show databases;

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

| Database |

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

| information\_schema |

| book |

| class |

| college |

| dbms\_prac7 |

| employe |

| lib |

| library |

| mysql |

| performance\_schema |

| secomp |

| student |

| tecomp |

| test |

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

14 rows in set (0.13 sec)

MariaDB [(none)]> create database shraddha;

Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> show databases;

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

| Database |

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

| information\_schema |

| book |

| class |

| college |

| dbms\_prac7 |

| employe |

| lib |

| library |

| mysql |

| performance\_schema |

| secomp |

| shraddha |

| student |

| tecomp |

| test |

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

15 rows in set (0.00 sec)

MariaDB [(none)]> use shraddha;

Database changed

MariaDB [shraddha]> create table stud(rollno int(10),name char(15),branch char(20));

Query OK, 0 rows affected (0.07 sec)

MariaDB [shraddha]> create table stud\_info(rollno int(10),marks int(10), mobile int(20));

Query OK, 0 rows affected (0.07 sec)

MariaDB [shraddha]> show tables;

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

| Tables\_in\_shraddha |

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

| stud |

| stud\_info |

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

2 rows in set (0.00 sec)

MariaDB [shraddha]> desc stud;

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

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

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

| rollno | int(10) | YES | | NULL | |

| name | char(15) | YES | | NULL | |

| branch | char(20) | YES | | NULL | |

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

3 rows in set (0.03 sec)

MariaDB [shraddha]> desc stud\_info;

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

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

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

| rollno | int(10) | YES | | NULL | |

| marks | int(10) | YES | | NULL | |

| mobile | int(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

MariaDB [shraddha]> alter table stud add primary key(rollno);

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [shraddha]> desc stud;

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

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

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

| rollno | int(10) | NO | PRI | 0 | |

| name | char(15) | YES | | NULL | |

| branch | char(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

MariaDB [shraddha]> insert into stud values(1,'shraddha','computer');

Query OK, 1 row affected (0.02 sec)

MariaDB [shraddha]> insert into stud values(2,'sayali','computer');

Query OK, 1 row affected (0.01 sec)

MariaDB [shraddha]> insert into stud values(3,'aarti','entc');

Query OK, 1 row affected (0.02 sec)

MariaDB [shraddha]> insert into stud\_info values(1,20,12345678910);

Query OK, 1 row affected, 1 warning (0.02 sec)

MariaDB [shraddha]> insert into stud\_info values(2,20,12345558910);

Query OK, 1 row affected, 1 warning (0.03 sec)

MariaDB [shraddha]> insert into stud\_info values(3,19,1243558910);

Query OK, 1 row affected (0.01 sec)

MariaDB [shraddha]> insert into stud\_info values(4,19,1277558910);

Query OK, 1 row affected (0.02 sec)

MariaDB [shraddha]> select stud.rollno,stud.name,stud\_info.marks from stud inner join stud\_info on stud.rollno=stud\_info.rollno;

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

| rollno | name | marks |

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

| 1 | shraddha | 20 |

| 2 | sayali | 20 |

| 3 | aarti | 19 |

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

3 rows in set (0.00 sec)

MariaDB [shraddha]> select stud.rollno,stud.name,stud\_info.marks from stud left outer join stud\_info on stud.rollno=stud\_info.rollno;

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

| rollno | name | marks |

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

| 1 | shraddha | 20 |

| 2 | sayali | 20 |

| 3 | aarti | 19 |

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

3 rows in set (0.00 sec)

MariaDB [shraddha]> select stud.rollno,stud.name,stud\_info.marks from stud right outer join stud\_info on stud.rollno=stud\_info.rollno;

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

| rollno | name | marks |

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

| 1 | shraddha | 20 |

| 2 | sayali | 20 |

| 3 | aarti | 19 |

| NULL | NULL | 19 |

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

4 rows in set (0.00 sec)

MariaDB [shraddha]> select stud.rollno,stud.name,stud\_info.marks from stud right outer join stud\_info on stud.rollno=stud\_info.rollno union select stud.rollno,stud.name,stud\_info.marks from stud left outer join stud\_info on stud.rollno=stud\_info.rollno;

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

| rollno | name | marks |

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

| 1 | shraddha | 20 |

| 2 | sayali | 20 |

| 3 | aarti | 19 |

| NULL | NULL | 19 |

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

4 rows in set (0.00 sec)

MariaDB [shraddha]> create table branch(branchid int(10),b\_name char(15),intake int(20));

Query OK, 0 rows affected (0.06 sec)

MariaDB [shraddha]> desc branch;

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

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

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

| branchid | int(10) | YES | | NULL | |

| b\_name | char(15) | YES | | NULL | |

| intake | int(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

MariaDB [shraddha]> desc stud;

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

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

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

| rollno | int(10) | NO | PRI | 0 | |

| name | char(15) | YES | | NULL | |

| branch | char(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

MariaDB [shraddha]> alter table branch add primary key(branchid);

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [shraddha]> desc branch;

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

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

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

| branchid | int(10) | NO | PRI | 0 | |

| b\_name | char(15) | YES | | NULL | |

| intake | int(20) | YES | | NULL | |

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

3 rows in set (0.01 sec)

MariaDB [shraddha]> create table stud1(rollno int(10),name char(15),branchid int(20));

Query OK, 0 rows affected (0.05 sec)

MariaDB [shraddha]> desc stud1;

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

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

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

| rollno | int(10) | YES | | NULL | |

| name | char(15) | YES | | NULL | |

| branchid | int(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

MariaDB [shraddha]> alter table stud1 add constraint fk1 foreign key(branchid)references branch(branchid);

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [shraddha]> desc stud1;

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

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

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

| rollno | int(10) | YES | | NULL | |

| name | char(15) | YES | | NULL | |

| branchid | int(20) | YES | MUL | NULL | |

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

3 rows in set (0.00 sec)

MariaDB [shraddha]> insert into branch values(001,'computer',60);

Query OK, 1 row affected (0.01 sec)

MariaDB [shraddha]> insert into branch values(002,'entc',60);

Query OK, 1 row affected (0.02 sec)

MariaDB [shraddha]> insert into branch values(003,'it',60);

Query OK, 1 row affected (0.01 sec)

MariaDB [shraddha]> insert into stud1 values(1,'shraddha',001);

Query OK, 1 row affected (0.03 sec)

MariaDB [shraddha]> insert into stud1 values(2,'sayali',001);

Query OK, 1 row affected (0.02 sec)

MariaDB [shraddha]> insert into stud1 values(3,'aarti',002);

Query OK, 1 row affected (0.02 sec)

MariaDB [shraddha]> insert into stud1 values(4,'pratiksha',003);

Query OK, 1 row affected (0.01 sec)

MariaDB [shraddha]> select \* from stud1;

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

| rollno | name | branchid |

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

| 1 | shraddha | 1 |

| 2 | sayali | 1 |

| 3 | aarti | 2 |

| 4 | pratiksha | 3 |

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

4 rows in set (0.00 sec)

MariaDB [shraddha]> select \* from branch;

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

| branchid | b\_name | intake |

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

| 1 | computer | 60 |

| 2 | entc | 60 |

| 3 | it | 60 |

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

3 rows in set (0.00 sec)

MariaDB [shraddha]> create view mul\_view as select stud1.rollno,stud1.name,branch.b\_name from stud1,branch where stud1.branchid=branch.branchid;

Query OK, 0 rows affected (0.04 sec)

MariaDB [shraddha]> select \* from mul\_view;

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

| rollno | name | b\_name |

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

| 1 | shraddha | computer |

| 2 | sayali | computer |

| 3 | aarti | entc |

| 4 | pratiksha | it |

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

4 rows in set (0.00 sec)