***Assignment No:7***

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

[root@localhost ~]# 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 |

| library |

| mysql |

| performance\_schema |

| stud |

| student |

| test |

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

7 rows in set (0.05 sec)

MariaDB [(none)]> create database dbms7;

Query OK, 1 row affected (0.01 sec)

MariaDB [(none)]> use dbms7

Database changed

MariaDB [dbms7]> create table Stud\_Marks(name char(20),total\_marks int(4));

Query OK, 0 rows affected (0.07 sec)

MariaDB [dbms7]> create table Result(Roll int(2) primary key,Name char(20),Class char(25))

-> ;

Query OK, 0 rows affected (0.05 sec)

MariaDB [dbms7]> desc Stud\_Marks;

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

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

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

| name | char(20) | YES | | NULL | |

| total\_marks | int(4) | YES | | NULL | |

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

2 rows in set (0.02 sec)

MariaDB [dbms7]> desc Result;

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

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

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

| Roll | int(2) | NO | PRI | NULL | |

| Name | char(20) | YES | | NULL | |

| Class | char(25) | YES | | NULL | |

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

3 rows in set (0.00 sec)

MariaDB [dbms7]> insert into Result(Roll,Name) values(1,'AA');

Query OK, 1 row affected (0.02 sec)

MariaDB [dbms7]> insert into Result(Roll,Name) values(2,'BB');

Query OK, 1 row affected (0.02 sec)

MariaDB [dbms7]> insert into Result(Roll,Name) values(3,'CC')

-> ;

Query OK, 1 row affected (0.02 sec)

MariaDB [dbms7]> insert into Result(Roll,Name) values(4,'DD');

Query OK, 1 row affected (0.01 sec)

MariaDB [dbms7]> insert into Result(Roll,Name) values(5,'EE');

Query OK, 1 row affected (0.01 sec)

MariaDB [dbms7]> insert into Stud\_Marks values('AA',994);

Query OK, 1 row affected (0.02 sec)

MariaDB [dbms7]> insert into Stud\_Marks values('BB',865);

Query OK, 1 row affected (0.02 sec)

MariaDB [dbms7]> insert into Stud\_Marks values('CC',932);

Query OK, 1 row affected (0.02 sec)

MariaDB [dbms7]> insert into Stud\_Marks values('DD',1034);

Query OK, 1 row affected (0.02 sec)

MariaDB [dbms7]> insert into Stud\_Marks values('EE',650);

Query OK, 1 row affected (0.02 sec)

MariaDB [dbms7]> select \* from Stud\_Marks;

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

| name | total\_marks |

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

| AA | 994 |

| BB | 865 |

| CC | 932 |

| DD | 1034 |

| EE | 650 |

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

5 rows in set (0.00 sec)

MariaDB [dbms7]> select \* from Result;

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

| Roll | Name | Class |

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

| 1 | AA | NULL |

| 2 | BB | NULL |

| 3 | CC | NULL |

| 4 | DD | NULL |

| 5 | EE | NULL |

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

5 rows in set (0.00 sec)

MariaDB [dbms7]> delimiter $$

MariaDB [dbms7]> create procedure proc\_Grade(in r int(2),out grade char(25))

-> begin

-> declare m int(4);

-> select total\_marks into m from Stud\_Marks where name=(select Name from Result where Roll=r);

-> if m>=990 and m<=1500 then

-> select 'Distinction' into grade;

-> update Result set Class='Distinction' where Roll=r;

-> elseif m>=900 and m<=989 then

-> select 'FirstClass' into grade;

-> update Result set Class='FirstClass' where Roll=r;

-> elseif m>=825 and m<=899 then

-> select 'SecondClass' into grade;

-> update Result set Class='SecondClass' where Roll=r;

-> else

-> select '--' into grade;

-> update Result set Class='--' where Roll=r;

-> end if;

-> end $$

Query OK, 0 rows affected (0.04 sec)

MariaDB [dbms7]> delimiter //

MariaDB [dbms7]> create function func\_Grade(r int(2))

-> returns char(25)

-> deterministic

-> begin

-> declare grade char(25);

-> call proc\_Grade(r,grade);

-> return grade;

-> end //

Query OK, 0 rows affected (0.00 sec)

MariaDB [dbms7]> select func\_Grade(1);

-> //

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

| func\_Grade(1) |

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

| Distinction |

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

1 row in set (0.01 sec)

MariaDB [dbms7]> select func\_Grade(2);

-> //

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

| func\_Grade(2) |

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

| SecondClass |

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

1 row in set (0.02 sec)

MariaDB [dbms7]> select func\_Grade(3);

-> //

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

| func\_Grade(3) |

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

| FirstClass |

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

1 row in set (0.02 sec)

MariaDB [dbms7]> select func\_Grade(4);

-> //

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

| func\_Grade(4) |

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

| Distinction |

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

1 row in set (0.02 sec)

MariaDB [dbms7]> select func\_Grade(5);

-> //

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

| func\_Grade(5) |

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

| -- |

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

1 row in set (0.03 sec)

MariaDB [dbms7]> select \* from Result;

-> //

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

| Roll | Name | Class |

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

| 1 | AA | Distinction |

| 2 | BB | SecondClass |

| 3 | CC | FirstClass |

| 4 | DD | Distinction |

| 5 | EE | -- |

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

5 rows in set (0.00 sec)

MariaDB [dbms7]> select \* from Stud\_Marks;

-> //

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

| name | total\_marks |

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

| AA | 994 |

| BB | 865 |

| CC | 932 |

| DD | 1034 |

| EE | 650 |

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

5 rows in set (0.00 sec)