**Name :Vishal singh**

**Subject:DBMS**

**PRN:1132220536**

**SLIP\_4.**

MariaDB [slip\_4]> create table movie(m\_nos int primary key,release\_year date);

Query OK, 0 rows affected (0.255 sec)

MariaDB [slip\_4]> create table actor(a\_no int primary key ,a\_name varchar(10));

Query OK, 0 rows affected (0.499 sec)

MariaDB [slip\_4]> alter table movie add check(release\_year>0);

Query OK, 0 rows affected (1.265 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [slip\_4]> desc movie;

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

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

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

| m\_nos | int(11) | NO | PRI | NULL | |

| release\_year | date | YES | | NULL | |

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

2 rows in set (0.122 sec)

MariaDB [slip\_4]> desc actor;

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

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

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

| a\_no | int(11) | NO | PRI | NULL | |

| a\_name | varchar(10) | YES | | NULL | |

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

2 rows in set (0.022 sec)

MariaDB [slip\_4]> create table mov\_act(m\_nos int references movie(m\_nos),a\_no int references actor(a\_no));

Query OK, 0 rows affected (0.166 sec)

MariaDB [slip\_4]> desc mov\_act;

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

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

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

| m\_nos | int(11) | YES | | NULL | |

| a\_no | int(11) | YES | | NULL | |

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

2 rows in set (0.018 sec)

MariaDB [slip\_4]> drop table mov\_act;

Query OK, 0 rows affected (0.124 sec)

MariaDB [slip\_4]> create table mov\_act(m\_nos int,foreign key(m\_nos) references movie(m\_nos),a\_no int,foreign key(a\_no) references actor(a\_no));

Query OK, 0 rows affected (0.224 sec)

MariaDB [slip\_4]> desc mov\_act;

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

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

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

| m\_nos | int(11) | YES | MUL | NULL | |

| a\_no | int(11) | YES | MUL | NULL | |

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

2 rows in set (0.017 sec)

MariaDB [slip\_4]> desc movie;

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

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

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

| m\_nos | int(11) | NO | PRI | NULL | |

| release\_year | date | YES | | NULL | |

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

2 rows in set (0.013 sec)

MariaDB [slip\_4]> desc actor;

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

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

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

| a\_no | int(11) | NO | PRI | NULL | |

| a\_name | varchar(10) | YES | | NULL | |

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

2 rows in set (0.014 sec)

MariaDB [slip\_4]> insert into movie values(1001,'2001-02-02');

Query OK, 1 row affected (0.039 sec)

MariaDB [slip\_4]> insert into movie values(1002,'2000-01-01');

Query OK, 1 row affected (0.111 sec)

MariaDB [slip\_4]> insert into movie values(1003,'2022-09-10');

Query OK, 1 row affected (0.056 sec)

MariaDB [slip\_4]> select \* from movie;

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

| m\_nos | release\_year |

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

| 1001 | 2001-02-02 |

| 1002 | 2000-01-01 |

| 1003 | 2022-09-10 |

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

3 rows in set (0.001 sec)

MariaDB [slip\_4]> insert into actor values(5001,'vishal');

Query OK, 1 row affected (0.093 sec)

MariaDB [slip\_4]> insert into actor values(5002,’salman’);

Query OK, 1 row affected (0.056 sec)

MariaDB [slip\_4]> insert into actor values(5003,'adi');

Query OK, 1 row affected (0.072 sec)

MariaDB [slip\_4]> select \* from actor;

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

| a\_no | a\_name |

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

| 5001 | vishal |

| 5002 | salman|

| 5003 | adi |

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

3 rows in set (0.001 sec)

MariaDB [slip\_4]> select \* from movie;

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

| m\_nos | release\_year |

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

| 1001 | 2001-02-02 |

| 1002 | 2000-01-01 |

| 1003 | 2022-09-10 |

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

3 rows in set (0.001 sec)

MariaDB [slip\_4]> insert into mov\_act values(1001,5001);

Query OK, 1 row affected (0.101 sec)

MariaDB [slip\_4]> insert into mov\_act values(1002,5002);

Query OK, 1 row affected (0.053 sec)

MariaDB [slip\_4]> insert into mov\_act values(1003,5003);

Query OK, 1 row affected (0.066 sec)

MariaDB [slip\_4]> insert into mov\_act values(1003,5002);

Query OK, 1 row affected (0.053 sec)

MariaDB [slip\_4]> insert into mov\_act values(1002,5001);

Query OK, 1 row affected (0.022 sec)

MariaDB [slip\_4]> select \* from mov\_act;

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

| m\_nos | a\_no |

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

| 1001 | 5001 |

| 1002 | 5002 |

| 1003 | 5003 |

| 1003 | 5002 |

| 1002 | 5001 |

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

5 rows in set (0.001 sec)

MariaDB [slip\_4]> select \* from actor;

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

| a\_no | a\_name |

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

| 5001 | vishal |

| 5002 | salman|

| 5003 | adi |

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

3 rows in set (0.001 sec)

MariaDB [slip\_4]> select \* from movie;

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

| m\_nos | release\_year |

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

| 1001 | 2001-02-02 |

| 1002 | 2000-01-01 |

| 1003 | 2022-09-10 |

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

3 rows in set (0.000 sec)

MariaDB [slip\_4]> select \* from mov\_act;

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

| m\_nos | a\_no |

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

| 1001 | 5001 |

| 1002 | 5002 |

| 1003 | 5003 |

| 1003 | 5002 |

| 1002 | 5001 |

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

5 rows in set (0.000 sec)

MariaDB [slip\_4]> select count(\*) from actor,movie,mov\_act where actor.a\_no=mov\_act.a\_no and movie.m\_nos=mov\_act.m\_nos and a\_name=’salman’;

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

| count(\*) |

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

| 2 |

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

1 row in set (0.088 sec)

MariaDB [slip\_4]> alter table movie add m\_name varchar(10);

Query OK, 0 rows affected (0.125 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [slip\_4]> select \* from movie;

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

| m\_nos | release\_year | m\_name |

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

| 1001 | 2001-02-02 | NULL |

| 1002 | 2000-01-01 | NULL |

| 1003 | 2022-09-10 | NULL |

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

3 rows in set (0.001 sec)

MariaDB [slip\_4]> update movie set m\_name ='abc' where m\_nos=1001;

Query OK, 1 row affected (0.069 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [slip\_4]> update movie set m\_name ='xyz' where m\_nos=1002;

Query OK, 1 row affected (0.089 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [slip\_4]> update movie set m\_name ='pqr' where m\_nos=1003;

Query OK, 1 row affected (0.031 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [slip\_4]> select \* from movie;

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

| m\_nos | release\_year | m\_name |

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

| 1001 | 2001-02-02 | abc |

| 1002 | 2000-01-01 | xyz |

| 1003 | 2022-09-10 | pqr |

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

3 rows in set (0.001 sec)

MariaDB [slip\_4]> select a\_name,m\_name,release\_year from movie,actor group by a\_name;

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

| a\_name | m\_name | release\_year |

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

| salman| abc | 2001-02-02 |

| adi | abc | 2001-02-02 |

| vishal | abc | 2001-02-02 |

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

3 rows in set (0.001 sec)

MariaDB [slip\_4]> select a\_name,m\_name,release\_year from movie,actor order by a\_name;

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

| a\_name | m\_name | release\_year |

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

| salman | abc | 2001-02-02 |

| salman | xyz | 2000-01-01 |

| salman | pqr | 2022-09-10 |

| adi | abc | 2001-02-02 |

| adi | xyz | 2000-01-01 |

| adi | pqr | 2022-09-10 |

| vishal | abc | 2001-02-02 |

| vishal | xyz | 2000-01-01 |

| vishal | pqr | 2022-09-10 |

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

9 rows in set (0.001 sec)

MariaDB [slip\_4]> select count(movie.m\_nos) as salman\_acted from movie,actor,mov\_act where actor.a\_no=mov\_act.a\_no and actor.a\_name='salman' and movie.m\_nos=mov\_act.m\_nos;

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

| salman\_acted |

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

| 2 |

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

1 row in set (0.030 sec)

MariaDB [slip\_4]> select actor.a\_name,movie.m\_name,release\_year from actor,movie,mov\_act where actor.a\_no=mov\_act.a\_no and movie.m\_nos=mov\_act.m\_nos group by actor.a\_name;

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

| a\_name | m\_name | release\_year |

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

| adi | pqr | 2022-09-10 |

| salman | xyz | 2000-01-01 |

| vishal | abc | 2001-02-02 |

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

3 rows in set (0.052 sec)