**Name :Vishal singh**

**Subject:DBMS**

**PRN:1132220536**

**SLIP\_16.**

MariaDB [(none)]> create database slip\_16;

Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use slip\_16;

Database changed

MariaDB [slip\_16]> create table car(c\_no int primary key,car\_model varchar(20),owner\_name varchar(10));

Query OK, 0 rows affected (0.259 sec)

MariaDB [slip\_16]> desc car;

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

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

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

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

| car\_model | varchar(20) | YES | | NULL | |

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

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

3 rows in set (0.015 sec)

MariaDB [slip\_16]> insert into car values(100,'xm34','vishal');

Query OK, 1 row affected (0.071 sec)

MariaDB [slip\_16]> insert into car values(101,'fg45','swati');

Query OK, 1 row affected (0.042 sec)

MariaDB [slip\_16]> insert into car values(102,'oopa45','jyoti');

Query OK, 1 row affected (0.058 sec)

MariaDB [slip\_16]> select \* from car;

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

| c\_no | car\_model | owner\_name |

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

| 100 | xm34 | vishal |

| 101 | fg45 | swati |

| 102 | oopa45 | jyoti |

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

3 rows in set (0.000 sec)

MariaDB [slip\_16]> create table accident(a\_id int primary key,place varchar(20),year bigint,check(year>1900),c\_no int,foreign key(c\_no) references car(c\_no) on delete cascade on update cascade );

Query OK, 0 rows affected (0.261 sec)

MariaDB [slip\_16]> desc accident;

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

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

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

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

| place | varchar(20) | YES | | NULL | |

| year | bigint(20) | YES | | NULL | |

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

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

4 rows in set (0.015 sec)

MariaDB [slip\_16]> insert into accident values(401,'patna',2000,100);

Query OK, 1 row affected (0.094 sec)

MariaDB [slip\_16]> insert into accident values(402,'pune',2001,100);

Query OK, 1 row affected (0.072 sec)

MariaDB [slip\_16]> insert into accident values(403,'kothrud',2005,101);

Query OK, 1 row affected (0.058 sec)

MariaDB [slip\_16]> select \* from accident;

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

| a\_id | place | year | c\_no |

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

| 401 | patna | 2000 | 100 |

| 402 | pune | 2001 | 100 |

| 403 | kothrud | 2005 | 101 |

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

3 rows in set (0.000 sec)

MariaDB [slip\_16]> create table driver(d\_no int primary key,d\_name varchar(20),d\_addr varchar(20),d\_city varchar(20));

Query OK, 0 rows affected (0.216 sec)

MariaDB [slip\_16]> desc driver;

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

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

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

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

| d\_name | varchar(20) | YES | | NULL | |

| d\_addr | varchar(20) | YES | | NULL | |

| d\_city | varchar(20) | YES | | NULL | |

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

4 rows in set (0.015 sec)

MariaDB [slip\_16]> insert into driver values(2001,'vishal','deccan','pune');

Query OK, 1 row affected (0.067 sec)

MariaDB [slip\_16]> insert into driver values(2002,'arya','danpaur','patna');

Query OK, 1 row affected (0.048 sec)

MariaDB [slip\_16]> insert into driver values(2003,'advik','gurgaon','delhi');

Query OK, 1 row affected (0.056 sec)

MariaDB [slip\_16]> select \* from driver;

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

| d\_no | d\_name | d\_addr | d\_city |

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

| 2001 | vishal | deccan | pune |

| 2002 | arya | danpaur | patna |

| 2003 | advik | gurgaon | delhi |

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

3 rows in set (0.000 sec)

MariaDB [slip\_16]> select \* from car;

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

| c\_no | car\_model | owner\_name |

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

| 100 | xm34 | vishal |

| 101 | fg45 | swati |

| 102 | oopa45 | jyoti |

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

3 rows in set (0.001 sec)

MariaDB [slip\_16]> select \* from accident;

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

| a\_id | place | year | c\_no |

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

| 401 | patna | 2000 | 100 |

| 402 | pune | 2001 | 100 |

| 403 | kothrud | 2005 | 101 |

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

3 rows in set (0.001 sec)

MariaDB [slip\_16]> create table car\_accident(c\_no int,foreign key(c\_no) references car(c\_no) on delete cascade on update cascade,a\_id int,foreign key(a\_id) references accident(a\_id) on delete cascade on update cascade);

Query OK, 0 rows affected (0.164 sec)

MariaDB [slip\_16]> desc car\_accident;

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

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

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

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

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

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

2 rows in set (0.042 sec)

MariaDB [slip\_16]> insert into car\_accident values(100,401);

Query OK, 1 row affected (0.111 sec)

MariaDB [slip\_16]> insert into car\_accident values(101,402);

Query OK, 1 row affected (0.022 sec)

MariaDB [slip\_16]> insert into car\_accident values(102,403);

Query OK, 1 row affected (0.109 sec)

MariaDB [slip\_16]> insert into car\_accident values(101,402);

Query OK, 1 row affected (0.056 sec)

MariaDB [slip\_16]> insert into car\_accident values(100,403);

Query OK, 1 row affected (0.019 sec)

MariaDB [slip\_16]> select \* from car\_accident;

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

| c\_no | a\_id |

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

| 100 | 401 |

| 101 | 402 |

| 102 | 403 |

| 101 | 402 |

| 100 | 403 |

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

5 rows in set (0.001 sec)

MariaDB [slip\_16]>