LAB-1 : INSURANCE DATABASE

Queries :

(i) Create the tables by properly specifying the primary keys and the foreign keys.

(ii) Enter atleast five tuples for each relation.

(iii) Demonstrate how you

a) Update the damage amount for the car with a specific Regno in the accident with Report number 12 to 25000.

b) Add a new accident to the database.

(iv) Find the total number of people who owned cars that involved in accidents in 2008.

(v) Find the number of accidents in which cars belonging to a specific model were involved.

Query 1 —

```
create   database   INSURANCE ;
create   table   INSURANCE · person (
driver_id  varchar (10),
name    varchar (20),
address    varchar (30),
primary key (driver_id));


create   table  INSURANCE · car (
reg_num   varchar(10),
model    varchar (10),
years    int,
primarykey (reg_num)) ;
```

```
create table INSURANCE. accident(
report_num int,
accident_date date,
location varchar (20),
primary key (report_num));

create table INSURANCE. owns (
driver_id varchar (10),
reg_num varchar(10),
primary key (driver_id, reg_num),
foreign key (driver_id) references person (driver_id),
foreign key (reg_num) references car (reg_num));

create table INSURANCE. participated (
driver_id varchar (10),
reg_num varchar (10),
report_num int,
-damage_amount int,
primary key (driver_id, reg_num, report_num),
foreign key (driver_id) references person (driver_id),
foreign key (reg_num) references car (reg_num),
foreign key (report_num) references accident (report_num));
```

Query 2 -

```
use INSURANCE;
insert into person values ('A01', 'Richard', 'Srinivas Nagar');
insert into person values ('A02', 'Pradeep', 'Rajaji Nagar');
insert into person values ('A03', 'Smith', 'Ashok Nagar');
insert into person values ('A04', 'Venu', 'N.R. Colony');
insert into person values ('A05', 'John', 'Hanumanth Nagar');
select * from person;
```

```sql
insert into car values ('KA052250', 'Indica', 1990);
insert into car values ('KA031181', 'Lancer', 1957);
insert into car values ('KA095477', 'Toyota', 1998);
insert into car values ('KA053408', 'Honda', 2008);
insert into car values ('KA041702', 'Audi', 2005);
select * from car;

insert into accident values (11, '2001-01-03', 'Mysore Road');
insert into accident values (12, '2002-01-04', 'Southend Circle');
insert into accident values (13, '2021-01-03', 'Bull Temple Road');
insert into accident values (14, '2017-02-08', 'Mysore Road');
insert into accident values (15, '2004-05-05', 'Kanakapura Road');
select * from accident;

insert into owns values ('A01', 'KA052250');
insert into owns values ('A02', 'KA053408');
insert into owns values ('A03', 'KA031181');
insert into owns values ('A04', 'KA095477');
insert into owns values ('A05', 'KA041702');
select * from owns;

insert into participated values ('A01', 'KA052250', 11, 10000);
insert into participated values ('A02', 'KA053408', 12, 50000);
insert into participated values ('A03', 'KA095477', 13, 25000);
insert into participated values ('A04', 'KA031181', 14, 3000);
insert into participated values ('A05', 'KA041702', 15, 5000);
select * from participated;
```

Query 3 —

use INSURANCE;
UPDATE participated
SET damage_amount = 25000
WHERE report_num = 12;

insert into accident values (16, "2021-04-05", "Mysore Road"
select * from accident;

Query 4 —

select count (distinct driver_id) from accident, participated
where accident.report_num = participated.report_num
and accident_date like '2008%');

Query 5 —

~~insert into~~ select count (report_num) from car, participated
where car.reg_num = participated.reg_num;
and model = "Audi";

insert into participated values ('A05', 'KA041702', 16, 6000);
select * from cars;
update participated set driver_id = "A04" where
reg_num = 'KA041702'.