DBMS LAB-1

→ 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),
year int,
primary key (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));
```

```sql
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

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


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','Bulltemple Road');
insert into accident values ( 14, '2017-02-08', 'Mysore Road');
insert into accident values ( 15, '2004-03-05', 'Kanakapura Road');
select * from accident;
```

```sql
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

```sql
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**

```
use INSURANCE;
SELECT COUNT (DISTINCT driver_id) FROM accident, participated
WHERE accident.report_num = participated.report_num
AND accident.date LIKE '2008%';
```

→ **Query 5**

```
use INSURANCE;
SELECT COUNT (report_num) = participated.reg_num
SELECT COUNT (report_num) FROM car, participated
WHERE car.reg_num = participated.reg_num
AND model = 'Lancer';
```