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1BM19CS230

CSE - 4A

Lab Program - 1

```
create database Insurance;
```

```
use Insurance;
```

```
create table Person(  
    driver_id varchar(20) not null,  
    driver_name varchar(20) not null,  
    address varchar(20) not null,  
    primary key(driver_id)  
);
```

```
create table Car(  
    reg_num varchar(20) not null,  
    model varchar(20) not null,  
    year_purchase int not null,  
    primary key(reg_num)  
);
```

```
create table Accident(  
    report_num int not null,  
    accident_date date not null,  
    location varchar(20) not null,  
    primary key(report_num)  
);
```

```
create table Owns(  
    driver_id varchar(20) not null,  
    reg_num varchar(20) not null,  
    primary key(driver_id,reg_num),  
    foreign key(driver_id) references Person(driver_id),  
    foreign key(reg_num) references Car(reg_num)  
);
```

```
create table Participated(  
    driver_id varchar(20) not null,  
    reg_num varchar(20) not null,  
    report_num int not null,  
    damage_amount int not null,  
    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)  
);
```

```
insert into Person(driver_id,driver_name,address)  
values ('A01','Richard','Srinivas Nagar'),  
       ('A02','Pradeep','Rajajinagar'),  
       ('A03','Smith','Ashok Nagar'),  
       ('A04','Venu','NR Colony'),  
       ('A05','Jhon','Hanumanth Nagar');
```

```
insert into Car(reg_num,model,year_purchase)
```

```
values ('KA052250','Indica',1990),  
      ('KA031181','Lancer',1957),  
      ('KA095477','Toyota',1998),  
      ('KA053408','Honda',2008),  
      ('KA041702','Audi',2005);
```

```
insert into Owns(driver_id,reg_num)  
values ('A01','KA052250'),  
      ('A02','KA053408'),  
      ('A03','KA031181'),  
      ('A04','KA095477'),  
      ('A05','KA041702');
```

```
insert into Accident(report_num,accident_date,location)  
values (11,'2003-01-01','Mysore Road'),  
      (12,'2004-02-02','South End Circle'),  
      (13,'2003-01-21','Bull Temple Road'),  
      (14,'2008-02-17','Mysore Road'),  
      (15,'2005-03-04','Kanakpura Road');
```

```
insert into Participated(driver_id,reg_num,report_num,damage_amount)  
values ('A01','KA052250',11,10000),  
      ('A02','KA053408',12,50000),  
      ('A03','KA095477',13,25000),  
      ('A04','KA031181',14,3000),  
      ('A05','KA041702',15,5000);
```

-- demonstrate how you update damage amount to 25000 for reg number 'KA053408' and report num 12

update Participated

set damage_amount = 25000 where reg_num = 'KA053408' and report_num = 12;

select * from Participated;

	driver_id	reg_num	report_num	damage_amount
►	A01	KA052250	11	10000
	A02	KA053408	12	25000
	A03	KA095477	13	25000
	A04	KA031181	14	3000
	A05	KA041702	15	5000

-- add a new accident to the database

insert into Accident values (16,'2007-07-08','Jayanagar');

select * from Accident;

	report_num	accident_date	location
►	11	2003-01-01	Mysore Road
	12	2004-02-02	South End Circle
	13	2003-01-21	Bull Temple Road
	14	2008-02-17	Mysore Road
	15	2005-03-04	Kanakpura Road
	16	2007-07-08	Jayanagar

-- find the total no. of people who owned cars involved in accident in 2008

select count(*) as accidents_2008 from Accident where accident_date between '2008-01-01' and '2008-12-31';

	accidents_2008
►	1

-- find the number of accidents in which cars belonging to model 'Lancer' were involved

```
select count(p.report_num) from Participated p, Car c  
where p.reg_num = c.reg_num and c.model = 'Lancer';
```

	count(p.report_num)
▶	1