

Insurance DB

INSURANCE DATABASE

PERSON

driver_id	Name	address
-----------	------	---------

CAR

regno	model	year
-------	-------	------

ACCIDENT

report_number	Accd date	locat1on
---------------	-----------	----------

OWNS

driver id	regno
-----------	-------

PARTICIPATED

Driver id	regno	report_number	damage_amount
-----------	-------	---------------	---------------

Queries Used to CREATE and INSERT

```
create table person(driver_id int primary key, Name varchar(20), Address
varchar(10));
create table car (regno int primary key,model varchar(1), year date);
create table accident(report_number int primary key, accd_date date,
location varchar(10));
create table owns(driver_id int foreign key references person, reg_no
int foreign key references car);
create table participated(driver_id int foreign key references
person,reg_no int foreign key references car,report_number int foreign key
references accident, damage_amount int);

insert into person values(1001,'Paul','Bangalore');
insert into person values(1002,'Avik','Mangalore');
```

```
insert into person values(1003,'Timm','Mumbai');
insert into person values(1004,'Vienna','Kerala');
insert into person values(1005,'Loreta','Hydrabad');

insert into car values(2001,'D','2020-03-23');
insert into car values(2002,'E','2020-04-15');
insert into car values(2003,'C','2020-07-03');
insert into car values(2004,'S','2020-12-27');
insert into car values(2005,'D','2020-10-14');

insert into accident values(3001,'2019-04-14','Bangalore');
insert into accident values(3002,'2008-07-20','Hydrabad');
insert into accident values(3003,'2019-12-05','Delhi');
insert into accident values(3004,'2008-10-18','Goa');
insert into accident values(3005,'2019-09-19','Rajasthan');

insert into owns values(1001,2002);
insert into owns values(1002,2004);
insert into owns values(1002,2005);
insert into owns values(1003,2001);
insert into owns values(1004,2002);
insert into owns values(1005,2003);
insert into owns values(1003,2004);

insert into participated values(1001,2002,3003,3000);
insert into participated values(1003,2001,3002,7000);
insert into participated values(1004,2002,3004,4000);
insert into participated values(1001,2002,3005,2000);
insert into participated values(1005,2003,3001,5000);
```

WEBSITE USED FOR MYSQL

Link : <http://sqlfiddle.com/>

Queries

1. Create the above tables by properly specifying the primary keys and foreign keys.

```
create table person(driver_id int primary key, Name varchar(20), Address
varchar(10));
create table car (regno int primary key,model varchar(1), year date);
create table accident(report_number int primary key, accd_date date,
location varchar(10));
create table owns(driver_id int foreign key references person, reg_no
int foreign key references car);
create table participated(driver_id int foreign key references
person,reg_no int foreign key references car,report_number int foreign key
references accident, damage_amount int);
```

2. Enter at least five tuples for each relation.

```
insert into person values(1001,'Paul','Bangalore');
insert into person values(1002,'Avik','Mangalore');
insert into person values(1003,'Timm','Mumbai');
insert into person values(1004,'Vienna','Kerala');
insert into person values(1005,'Loreta','Hydrabad');

insert into car values(2001,'D','2020-03-23');
insert into car values(2002,'E','2020-04-15');
insert into car values(2003,'C','2020-07-03');
insert into car values(2004,'S','2020-12-27');
insert into car values(2005,'D','2020-10-14');

insert into accident values(3001,'2019-04-14','Bangalore');
insert into accident values(3002,'2008-07-20','Hydrabad');
insert into accident values(3003,'2019-12-05','Delhi');
insert into accident values(3004,'2008-10-18','Goa');
insert into accident values(3005,'2019-09-19','Rajasthan');

insert into owns values(1001,2002);
insert into owns values(1002,2004);
insert into owns values(1002,2005);
insert into owns values(1003,2001);
insert into owns values(1004,2002);
```

```

insert into owns values(1005,2003);
insert into owns values(1003,2004);

insert into participated values(1001,2002,3003,3000);
insert into participated values(1003,2001,3002,7000);
insert into participated values(1004,2002,3004,4000);
insert into participated values(1001,2002,3005,2000);
insert into participated values(1005,2003,3001,5000);

```

3. Demonstrate how you :

- update the damage amount for the car with specific regno in the accident with report number 12 to 25000.
- Add a new accident to the database.

```

update participated
set damage_amount = 8000
where report_number = 3002 (what needs to be used :12)
and reg_no = 2001;

```

Before Update

driver_id	reg_no	report_number	damage_amount
1001	2002	3003	3000
1003	2001	3002	7000
1004	2002	3004	4000
1001	2002	3005	2000
1005	2003	3001	5000

After Update

driver_id	reg_no	report_number	damage_amount
1001	2002	3003	3000
1003	2001	3002	*8000
1004	2002	3004	4000

driver_id	reg_no	report_number	damage_amount
1001	2002	3005	2000
1005	2003	3001	5000

```
insert into participated values(1006,2004,3003,7000);
```

driver_id	reg_no	report_number	damage_amount
1001	2002	3003	3000
1003	2001	3002	*8000
1004	2002	3004	4000
1001	2002	3005	2000
1005	2003	3001	5000
1006	2004	3003	7000

4. Find the total number of people who owned cars that were involved in accidents in the year 2008.

```
select count(*) from participated
where report_number in
(select report_number from accident
where accd_date like '2008_____');
```

count (*)
2

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

```
select count(*) from participated
where reg_no in
(select regno from car
```

```
where model = 'D');
```

count (*)

1
