Insurance Database

Question

(Week 1)

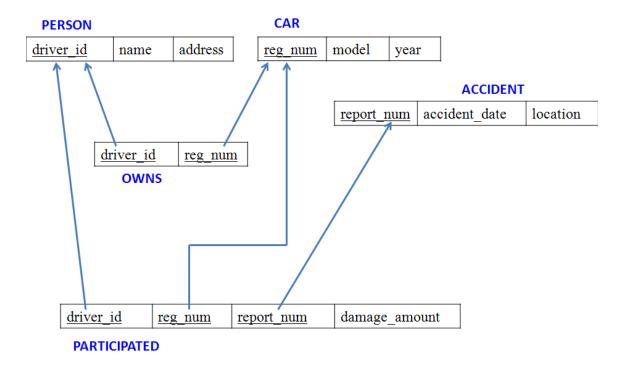
PERSON (driver_id: String, name: String, address: String)
CAR (reg_num: String, model: String, year: int)
ACCIDENT (report_num: int, accident_date: date, location: String)
OWNS (driver_id: String, reg_num: String)
PARTICIPATED (driver_id: String_reg_num: String_report_num: int)

PARTICIPATED (driver_id: String,reg_num: String, report_num: int,

damage amount: int)

- Create the above tables by properly specifying the primary keys and the foreign keys.
- Enter at least five tuples for each relation
- Display Accident date and location
- Display driver id who did the accident damage greater than or equal to Rs.25000
- Add a new accident to the database.
- To Do
- Display Accident date and location
- Display driver id who did accident with damage amount greater than or equal to Rs.25000

Schema Diagram



Create database

```
create database insurance_cs065; use insurance_cs065;
```

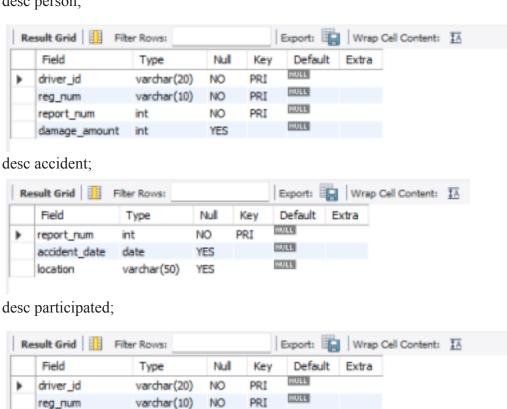
Create table

```
create table person(
driver_id varchar(20),
name varchar(30),
address varchar(50),
PRIMARY KEY(driver_id)
);
create table car(
reg_num varchar(15),
model varchar(10),
year int,
```

```
PRIMARY KEY(reg_num)
);
create table owns(
driver id varchar(20),
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 accident(
report num int,
accident date date,
location varchar(50),
PRIMARY KEY(report num)
);
create table participated(
driver id varchar(20),
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)
);
```

Structure of the table

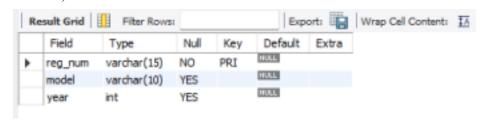
desc person;





report num

damage_amount



NO

YES

HULL

MULL

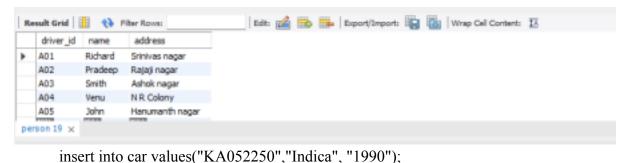
PRI

desc owns;



Inserting Values to the table

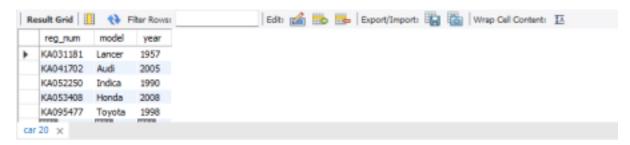
```
insert into person values("A01","Richard", "Srinivas nagar"); insert into person values("A02","Pradeep", "Rajaji nagar"); insert into person values("A03","Smith", "Ashok nagar"); insert into person values("A04","Venu", "N R Colony"); insert into person values("A05","John", "Hanumanth nagar"); select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



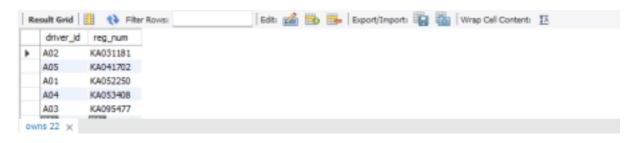
insert into car values("KA031181","Lancer", "1957"); insert into car values("KA095477","Toyota", "1998"); insert into car values("KA053408","Honda", "2008");

insert into car values("KA041702","Audi", "2005");

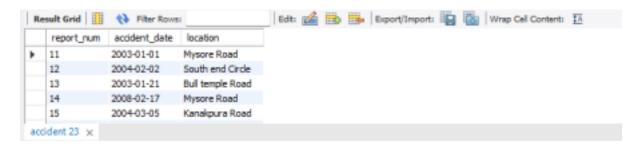
select * from car;



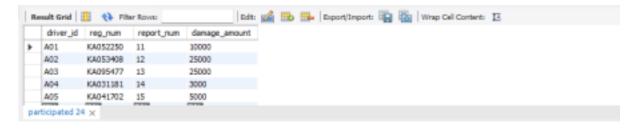
insert into owns values("A01","KA052250"); insert into owns values("A02","KA031181"); insert into owns values("A03","KA095477"); insert into owns values("A04","KA053408"); insert into owns values("A05","KA041702"); select * from owns;



insert into accident values(11,'2003-01-01',"Mysore Road"); insert into accident values(12,'2004-02-02',"South end Circle"); insert into accident values(13,'2003-01-21',"Bull temple Road"); insert into accident values(14,'2008-02-17',"Mysore Road"); insert into accident values(15,'2004-03-05',"Kanakpura Road"); select * from accident;



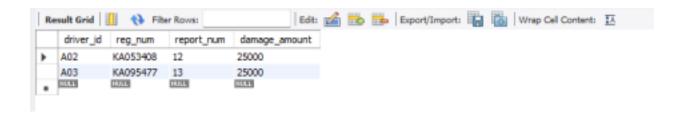
insert into participated values("A01","KA052250",11,10000); insert into participated values("A02","KA053408",12,50000); insert into participated values("A03","KA095477",13,25000); insert into participated values("A04","KA031181",14,3000); insert into participated values("A05","KA041702",15,5000); select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



Queries

• Update the damage amount to 25000 for the car with a specific reg-num (example 'KA053408') for which the accident report number was 12.

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



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

select count(distinct driver_id) CNT from participated a, accident b where a.report num=b.report num and b.accident date like '2008%';



• Add a new accident to the database.

insert into accident values(16,'2008-03-08',"Domlur"); select * from accident;

	report_num	accident_date	location
•	11	2001-01-03	mysoreroad
	12	2002-02-04	southendcircle
	13	2021-01-03	bulltempleroad
	14	2017-02-08	mysoreroad)
	15	2004-03-05	kanakpuraroad

• Display Accident date and location

select accident_date ,location from accident;

	accident_date	location
•	2001-01-03	mysoreroad
	2002-02-04	southendcircle
	2021-01-03	bulltempleroad
	2017-02-08	mysoreroad)
	2004-03-05	kanakpuraroad

• Display driver id who did accident with damage amount greater than or equal to Rs.25000

select driver_id from participated where damage_amount>=25000;

	driver_id	
•	a02	
	a03	