

1. Insurance Database

PROGRAM 1: INSURANCE DATABASE

Consider the Insurance database given below:

PERSON (driver_id: String, name: String, address: String)

CAR (reg_num: String, model: String, year: int)

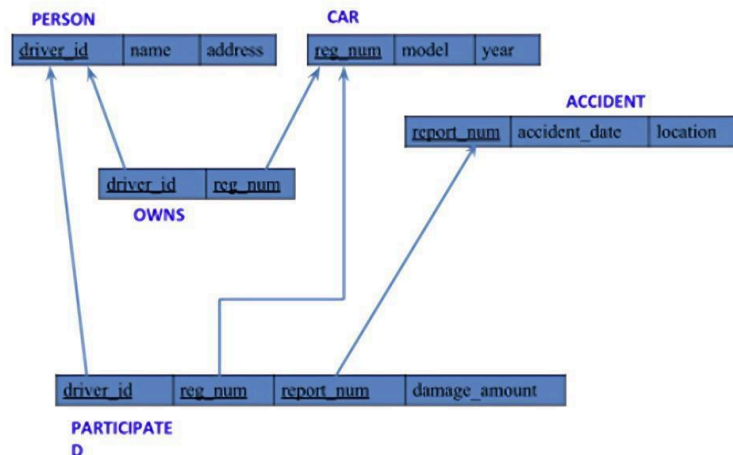
ACCIDENT (report_num: int, accident_date: date, location: String)

OWNS (driver_id: String, reg_num: String)

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

- i. Create the above tables by properly specifying the primary keys and the foreign keys.
- ii. Enter at least five tuples for each relation.
- iii. Display Accident date and location.
- iv. Update the damage amount to 25000 for the car with a specific reg_num (example 'KA053408') for which the accident report number was 12.
- v. Add a new accident to the database.
- vi. Display driver id who did accident with damage amount greater than or equal to Rs.25000.

Schema Diagram:



Creating Database and Table:

```
create database insurance_141;
use insurance_141;
```

```
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)
);

```

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;

```

driver_id	name	address
A01	Richard	Srinivas nagar
A02	Pradeep	Rajaji nagar
A03	Smith	Ashok nagar
A04	Venu	N R Colony
A05	John	Hanumanth nagar
NULL	NULL	NULL

```

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;

```

reg_num	model	year
KA031181	Lancer	1957
KA041702	Audi	2005
KA052250	Indica	1990
KA053408	Honda	2008
KA095477	Toyota	1998
NULL	NULL	NULL

```

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;

```

driver_id	reg_num
A02	KA031181
A05	KA041702
A01	KA052250
A04	KA053408
A03	KA095477
NULL	NULL

```

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;

```

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	2004-03-05	Kanakpura Road
NULL	NULL	NULL

```

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;

```

driver_id	reg_num	report_num	damage_amount
A01	KA052250	11	10000
A02	KA053408	12	50000
A03	KA095477	13	25000
A04	KA031181	14	3000
A05	KA041702	15	5000
NULL	NULL	NULL	NULL

Queries :

iii. Display accident date and location .

```
select accident_date, location from accident;
```

accident_date	location
2003-01-01	Mysore Road
2004-02-02	South end Circle
2003-01-21	Bull temple Road
2008-02-17	Mysore Road
2004-03-05	Kanakpura Road

iv. 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;
select * from participated where reg_num='KA053408' and report_num=12;

```

driver_id	reg_num	report_num	damage_amount
A02	KA053408	12	25000
NULL	NULL	NULL	NULL

v. 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	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	2004-03-05	Kanakpura Road
16	2008-03-08	Domlur
NULL	NULL	NULL

vi. 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