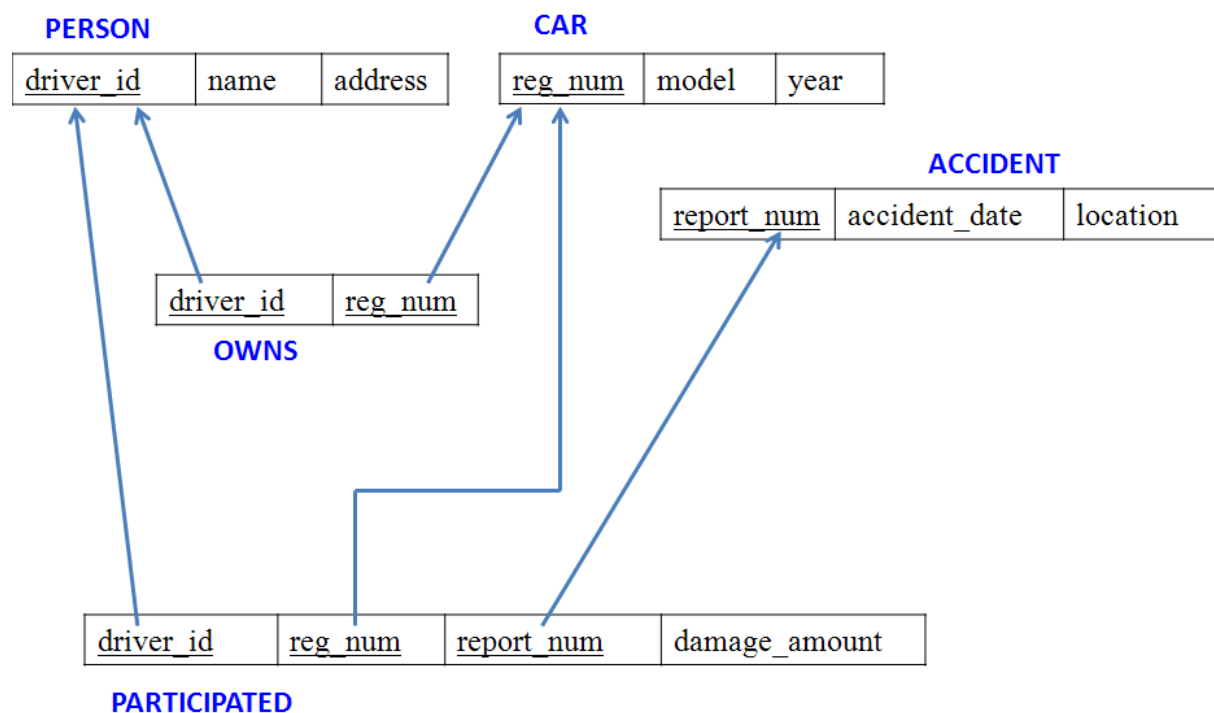


PROGRAM 1: INSURANCE DATABASE

Schema diagram



Consider the Insurance database given below. The data types are specified.

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)

List of operations

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

- create database insurance;
- use insurance;

creating the table person:

- create table person(

```
driver_id varchar(20) primary key,  
name varchar(20),  
address varchar(50));
```

➤ desc person;

	Field	Type	Null	Key	Default	Extra
▶	driver_id	varchar(20)	NO	PRI	NULL	
	name	varchar(20)	YES		NULL	
	address	varchar(50)	YES		NULL	

Creating the table car:

➤ create table car(
reg_num varchar(20) primary key,
model varchar(10),
year int(6));

➤ desc car;

	Field	Type	Null	Key	Default	Extra
▶	reg_num	varchar(20)	NO	PRI	NULL	
	model	varchar(10)	YES		NULL	
	year	int	YES		NULL	

Creating the table owns:

➤ create table owns(
driver_id varchar(20) primary key,
reg_num varchar(20) ,
foreign key (driver_id) references person(driver_id),
foreign key (reg_num) references car(reg_num));

➤ desc owns;

	Field	Type	Null	Key	Default	Extra
▶	driver_id	varchar(20)	NO	PRI	NULL	
	reg_num	varchar(20)	YES	MUL	NULL	

Creating the table accident:

➤ create table accident(
report_num int primary key,
accident_date date,

location varchar(30));

➤ desc accident;

	Field	Type	Null	Key	Default	Extra
▶	report_num	int	NO	PRI	NULL	
	accident_date	date	YES		NULL	
	location	varchar(30)	YES		NULL	

Creating the table participated:

➤ create table participated(
driver_id varchar(20) primary key,
reg_num varchar(20),
report_num int,
damage_amount int ,
foreign key (driver_id) references person(driver_id),
foreign key (reg_num) references car(reg_num),
foreign key (report_num) references accident(report_num));

➤ desc participated;

	Field	Type	Null	Key	Default	Extra
▶	driver_id	varchar(20)	NO	PRI	NULL	
	reg_num	varchar(20)	YES	MUL	NULL	
	report_num	int	YES	MUL	NULL	
	damage_amount	int	YES		NULL	

● Enter at least five tuples for each relation:

Inserting tuples of table person:

➤ insert into person values('A01','Richard','Srinivas nagar'),
('A02','Pradeep','Rajaji nagar'),
('A03','Smith','Ashok nagar'),
('A04','Venu','N R Colony'),
('A05','Jhon','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	Jhon	Hanumanth nagar
✱	NULL	NULL	NULL

Inserting tuples of the table accident:

- insert into accident 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');

- 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
✱	NULL	NULL	NULL

Inserting tuples of the table car:

- insert into car values("KA052250","Indica",1990),
("KA031181","Lancer",1957),
("KA095477","Toyota",1998),
("KA053408","Honda",2008),
("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

Inserting tuples for table owns:

- INSERT INTO owns VALUES
(A01,'KA052250'),
(A02,'KA053408'),
(A03,'KA031181'),
(A04,'KA095477'),
(A05,'KA041702');

- select * from owns;

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

Inserting tuples for table participated

- insert into participated values
(A01,'KA052250',11,10000),
(A02,'KA053408',12,50000),
(A03,'KA095477',13,25000),
(A04,'KA031181',14,3000),
(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

- **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
	2005-03-04	Kanakpura Road

- **Display driver id who did the accident damage greater than or equal to Rs.25000**

- select driver_id from participated
where damage_amount >= 25000;

	driver_id
▶	A02
	A03
•	NULL