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1BM19CS218
SECTION-4A

Question:

Program 1: Insurance database

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)

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)Demonstrate how you

a.Update the damage amount to 25000 for the car with a specific reg-num(example 'K A053408') for which the accident report number was 12.
b.Add a new accident to the database.

iv)Find the total number of people who owned cars that were involved in accidents in 2008. v)Find the number of accidents in which cars belonging to a specific model (example)were involved.

Person Table

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

Car Table

KA052250	Indica	1990
KA053408	Honda	2008
KA095477	Toyota	1998
NULL	NULL	NULL

Accident Table

report_num	accindent_date	location
11	2001-01-03	Mysore Road
12	2002-02-03	South and Circle
13	2021-01-03	Bull temple Road
14	2017-02-08	Mysore Road
15	2004-03-05	Kanakpura Road
16	2008-03-15	Domlur
NULL	NULL	NULL

Owns Table

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

Participated Table

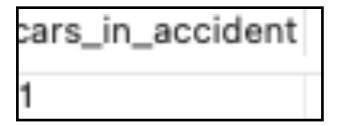| driver_id	reg_num	report_num	damage_amount
A01	KA052250	11	10000
A02	KA053408	12	25000
A03	KA095477	13	25000
A04	KA031181	14	3000
A05	KA041702	15	5000
NULL	NULL	NULL	NULL

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

```
select count(distinct driver_id)
from Participated p,Accident a
where p.report_num=a.report_num AND a.accindent_date like '2008%';
```

accidents20...	
1	

Find the number of accidents in which cars belonging to a

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

cars_in_accident
1

**Add a new accident to database-
(16,2008-03-15,Domlur)**

insert into
Accident(report_num,accindent_date,loc
ation)
values(16,'2008-03-15','Domlur');
select * from Accident;

report_num	accindent_date	location	
11	2001-01-03	Mysore Road	
12	2002-02-03	South and Circle	
13	2021-01-03	Bull temple Road	
14	2017-02-08	Mysore Road	
15	2004-03-05	Kanakpura Road	
16	2008-03-15	Domlur	
NULL	NULL	NULL	

**update damage amount to 25000
for car with report_num 12 and**

update Participated set
damage_amount=25000 where
report_num=12 and
reg_num="KA053408";

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
NULL	NULL	NULL	NULL