

DIVYASHREE K

1BM19CS054

CSE-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.

Program 1:

```
create database sample1;
use sample1;
create table PERSON(
driver_id char(20) NOT NULL,
Name_ char(30),
address char(50),
PRIMARY KEY (driver_id)
);
```

```
create table car(
reg_num char(20),
model char(30),
year int,
PRIMARY KEY(reg_num)
);
```

```
create table ACCIDENT(
report_num int,
accident_date date,
location char(50),
PRIMARY KEY(report_num)
);
```

```
create table OWNS(
driver_id char(20),
reg_num char(20),
```

```
FOREIGN KEY(driver_id) references PERSON(driver_id),  
FOREIGN KEY(reg_num) references car(reg_num)  
);
```

```
create table PARTICIPATED(  
driver_id char(20),  
reg_num char(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)  
);
```

```
insert into PERSON  
values ("A01","RICHARD","SRINIVAS  
NAGAR"),("A02","PRADEEP","RAJAJI  
NAGAR"),("A03","SMITH","ASHOK  
NAGAR"),("A04","VENU","N R  
COLONY"),("A05","JHON","HANUMANYH NAGAR");  
select* from PERSON;
```

```
insert into car  
values  
("KA052250","INDICA",1990),("KA031181","LANCER",1  
957),("KA095477","TOYOTA",1998),("KA053408","HON  
DA",2008),("KA041702","AUDI",2005);
```

```
select* from car;
```

```
insert into ACCIDENT  
values (11,"2003-01-01","MYSORE ROAD"),(12,"2004-  
02-02","SOUTH END CIRCLE"),(13,"2003-01-21","BULL  
TEMPLE ROAD");  
select* from ACCIDENT;
```

```
insert into ACCIDENT  
values (14,"2008-02-17","MYSORE ROAD"),(15,"2005-  
03-04","KANAKPURA ROAD");  
select* from ACCIDENT;
```

```
insert into OWNS  
values  
("A01","KA052250"),("A02","KA053408"),("A03","KA03  
1181"),("A04","KA095477"),("A05","KA041702");  
select* from OWNS;
```

```
insert into PARTICIPATED  
values  
("A01","KA052250",11,10000),("A02","KA053408",12,5  
0000),("A03","KA095477",13,25000),("A04","KA031181  
",14,3000),("A05","KA041702",15,5000);  
select* from PARTICIPATED;
```

```
update PARTICIPATED  
SET damage_amount=25000
```

```
WHERE reg_num="KA053408";
```

```
select* from PARTICIPATED;
```

```
insert into ACCIDENT  
values (16,"2018-03-29","KORMANGLA");  
select* from ACCIDENT;
```

```
SELECT COUNT(accident_date) AS accidentsin2008  
FROM ACCIDENT  
WHERE YEAR(accident_date)=2008;
```

```
SELECT COUNT(model) AS carwithhondaomodel FROM  
car  
WHERE model="HONDA";
```

```
select* from ACCIDENT  
where accident_date="2008-02-17";
```

Output:

```
50 values (11, '2003-01-01', 'MYSORE ROAD'), (12, '2004-  
51 select* from ACCIDENT;  
52
```

Result Grid



Filter Rows:

Edit:




	driver_id	Name_	address
▶	A01	RICHARD	SRINIVAS NAGAR
	A02	PRADEEP	RAJAJI NAGAR
	A03	SMITH	ASHOK NAGAR
	A04	VENU	N R COLONY
	A05	JHON	HANUMANYH NAGAR
•	NULL	NULL	NULL


```

45      insert into car
46      values ("KA052250", "INDICA", 1990)
47      select* from car;
48
49      insert into ACCIDENT
50      values (11, "2003-01-01", "MYSORE RO
51      select* from ACCIDENT;
52

```

<

Result Grid   Filter Rows: Edit






	reg_num	model	year
▶	KA031181	LANCER	1957
	KA041702	AUDI	2005
	KA052250	INDICA	1990
	KA053408	HONDA	2008
	KA095477	TOYOTA	1998
*	NOTE	NOTE	NOTE


```

46 values ("KA052250","INDICA",1990),("KA031181","I
47 select* from car;
48
49 insert into ACCIDENT
50 values (11,"2003-01-01","MYSORE ROAD"),(12,"2004-
51 select* from ACCIDENT;
52
53 insert into ACCIDENT
54 values (14,"2008-02-17","MYSORE ROAD"),(15,"2005-0

```

<

Result Grid   Filter Rows: Edit:    Ex

	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
	16	2018-03-29	KORMANGLA
•	NULL	NULL	NULL


```
57      insert into OWNS
58      values ("A01","KA052250"),("A02
59      select* from OWNS;
60
61      insert into PARTICIPATED
62      values ("A01","KA052250",11,1000
63      select* from PARTICIPATED;
64
```



Result Grid



Filter Rows:




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


```

59  select* from OWNS;
60
61  insert into PARTICIPATED
62  values ("A01","KA052250",11,10000),("A02",
63  select* from PARTICIPATED;
64
65  update PARTICIPATED
66  SET damage_amount=25000
67  WHERE reg_num="KA053408";
68
69  select* from PARTICIPATED;

```

<

Result Grid   Filter Rows: Export:  W




	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

PARTICIPATED IT

ables

```
60
61  insert into PARTICIPATED
62  values ("A01","KA052250",11,10000),("A02","KA053408",12,25000);
63  select* from PARTICIPATED;
64
65  update PARTICIPATED
66  SET damage_amount=25000
67  WHERE reg_num="KA053408";
68
69  select* from PARTICIPATED;
70
```

<

Result Grid   Filter Rows: Export:  Wrap Cell

tup

	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

64

65 **update** PARTICIPATED

66 **SET** damage_amount=25000

67 **WHERE** reg_num="KA053408";

68

69 **select*** **from** PARTICIPATED;

70

71 **insert into** ACCIDENT

72 **values** (16,"2018-03-29","KORMANGLA");

73 **select*** **from** ACCIDENT;

74

<

Result Grid

Filter Rows:

Edit:

	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
	16	2018-03-29	KORMANGLA
•	NULL	NULL	NULL