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),
```

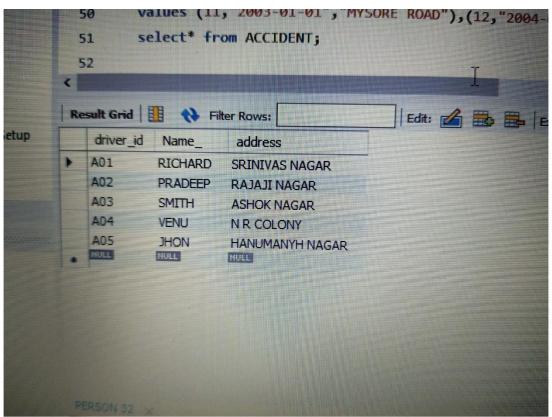
```
FOREIGN KEY(driver id) references PERSON(driver id),
FOREIGN KEY(reg_num) references car(reg_num)
);
create table PARTICIPATED(
driver id char(20),
reg_num char(20),
report num int,
damage amount int,
FOREIGN KEY(driver_id) references PERSON(driver_id),
FOREIGN KEY(reg num) references car(reg num),
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:



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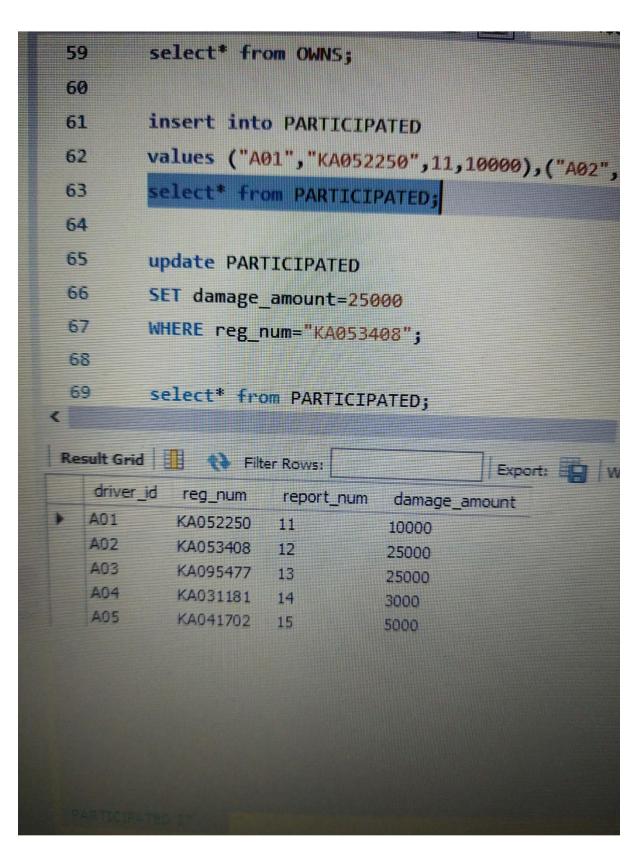
```
insert into car
 45
        values ("KA052250","INDICA",1990)
 46
        seleci* from car;
47
48
       insert into ACCIDENT
49
50
       values (11,"2003-01-01","MYSORE RC
       select* from ACCIDENT;
51
 52
reg_num __model
                  year
  KA031181 LANCER
                  1957
  KA041702 AUDI
                  2005
  KA052250 INDICA
                 1990
  KA053408 HONDA
                  2008
  KA095477 TOYOTA
                 1998
```

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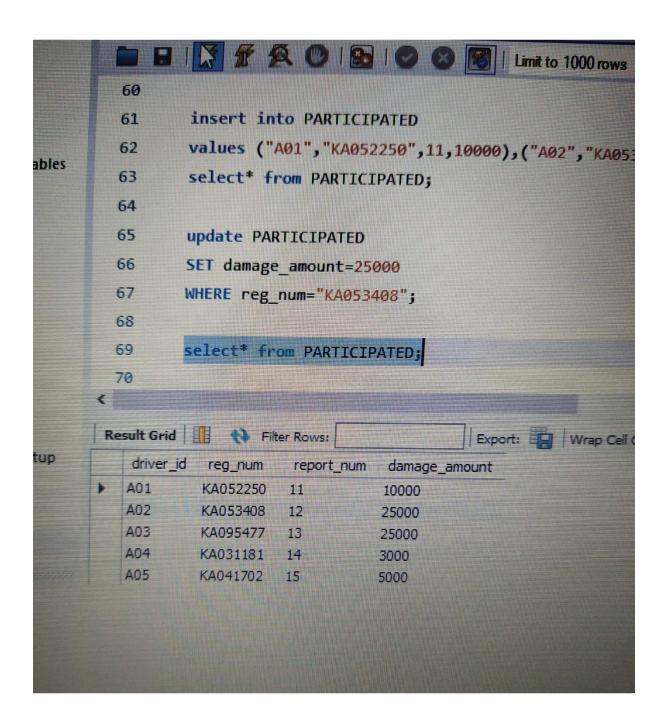
```
values ("KA052250", "INDICA", 1990), ("KA031181", "
 46
         select* from car;
 47
 48
         insert into ACCIDENT
 49
        values (11,"2003-01-01","MYSORE ROAD"),(12,"2004
 50
         select* from ACCIDENT;
 51
 52
         insert into ACCIDENT
 53
        values (14,"2008-02-17", "MYSORE ROAD"), (15,"2005-0
 54
                                         Edit: 🚣 👼 🚟 🛭 Ex
Result Grid Filter Rows:
   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
             2008-02-17 MYSORE ROAD
   14
   15
                         KANAKPURA ROAD
             2005-03-04
             2018-03-29
                        KORMANGLA
   16
```

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_i	d reg_num
▶ A01	74.442.20
A02	141000 100
	KA031181
A04 A05	KA095477
, ,,,,,,	KA041702

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```
| | | Limit to 1000
 64
         update PARTICIPATED
 65
         SET damage_amount=25000
 66
         WHERE reg_num="KA053408";
67
68
         select* from PARTICIPATED;
69
70
         insert into ACCIDENT
71
         values (16,"2018-03-29","KORMANGLA");
72
         select* from ACCIDENT;
 73
 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
             $2000 M
```

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