

PROGRAM 2: More Queries on 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)

List of operations

- Create the above tables by properly specifying the primary keys and the foreign keys as done in previous week's lab and Enter at least five tuples for each relation
- Demonstrate how you can:
 - o Update the damage amount to 25000 for the car with a specific reg-num(example 'KA053408') for which the accident report number was 12.
 - o Add a new accident to the database.
- Display the entire CAR relation in the ascending order of manufacturing year.
- Find the number of accidents in which cars belonging to a specific model (example 'Lancer') were involved.
- Find the total number of people who owned cars that involved in accidents in 2008.
- Find the number of accidents in which cars belonging to a specific model (ex: 'Lancer') were involved accidents in 2008.

ADDITIONAL QUERIES:

- 1) LIST THE ENTIRE PARTICIPATED RELATION IN THE DESCENDING ORDER OF DAMAGE AMOUNT.
- 2) FIND THE AVERAGE DAMAGE AMOUNT
- 3) LIST THE NAME OF DRIVERS WHOSE DAMAGE IS GREATER THAN THE AVERAGE DAMAGE AMOUNT.
- 4) FIND MAXIMUM DAMAGE AMOUNT.

WEEK 2—

```
1 • USE newdatabase;
2
3 • create table person (driver_id varchar(10),
4   name varchar(20), address varchar(30), primary key(driver_id));
5
6 • desc person
7
8 ✖ create table car(reg_num varchar(10),model varchar(10),year int, primary key(reg_num));
9
10 • create table accident(report_num int, accident_date date, location
11   varchar(20),primary key(report_num));
12
13 • create table owns(driver_id varchar(10),reg_num varchar(10),
14   primary key(driver_id, reg_num),
15   foreign key(driver_id) references person(driver_id),
16   foreign key(reg_num) references car(reg_num));
17
18 • create table participated(driver_id varchar(10), reg_num varchar(10),
19   report_num int, damage_amount int,
20   primary key(driver_id, reg_num, report_num),
21   foreign key(driver_id) references person(driver_id),
22   foreign key(reg_num) references car(reg_num),
23   foreign key(report_num) references accident(report_num));
24
```

```

25 • INSERT into accident values (11, '2003-01-01', "Mysore Road");
26 • INSERT into accident values (12, '2004-02-02', "South end Circle");
27 • insert into accident values (13, '2003-01-21', "Bull temple Road");
28 • insert into accident values (14, '2008-02-17', "Mysore Road");
29 • insert into accident values (15, '2004-03-05', "Kanakpura Road");
30 • Select * from accident;
31
32 • INSERT into car values("KA052250", "Indica", 1990);
33 • INSERT into car values("KA031181", "Lancer", 1957);
34 • INSERT into car values("KA095477", "Toyota", 1998);
35 • INSERT into car values("KA053408", "Honda", 2008);
36 • INSERT into car values("KA041702", "Audi", 2005);
37 • Select * from car;
38
39 • INSERT into person values("A01", "Richard", "Srinivas nagar");
40 • INSERT into person values("A02", "Pradeep", "Rajaji nagar");
41 • INSERT into person values("A03", "Smith", "Ashok nagar");
42 • INSERT into person values("A04", "Venu", "N R Colony");
43 • INSERT into person values("A05", "Jhon", "Hanumanth nagar");
44 • Select * from person;
45
46 • INSERT into owns values("A01", "KA052250");
47 • INSERT into owns values("A02", "KA053408");
48 • INSERT into owns values("A03", "KA031181");
49 • INSERT into owns values("A04", "KA095477");
50 • INSERT into owns values("A05", "KA041702");
51 • Select * from owns;
52
53 • INSERT into participated values("A01", "KA052250", 11, 10000);
54 • INSERT into participated values("A02", "KA053408", 12, 50000);
55 • INSERT into participated values("A03", "KA095477", 13, 25000);
56 • INSERT into participated values("A04", "KA031181", 14, 3000);
57 • INSERT into participated values("A05", "KA041702", 15, 5000);
58 • select * from participated;
59
60 • select * from car order by year asc;

```

Result Grid			
Filter Rows: <input type="text"/>			
Edit: <input type="text"/>			
	reg_num	model	year
▶	KA031181	Lancer	1957
	KA052250	Indica	1990
	KA095477	Toyota	1998
	KA041702	Audi	2005
	KA053408	Honda	2008
*	NULL	NULL	NULL

62 • `select count(report_num) from car c, participated p where c.reg_num=p.reg_num and c.model='Lancer';`

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
count(report_num)			
1			

64 • `select count(distinct driver_id) CNT from participated a, accident b where a.report_num=b.report_num and b.accident_date like '___08%';`
65

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
CNT			
1			

66 • `SELECT * FROM PARTICIPATED ORDER BY DAMAGE_AMOUNT DESC;`

Result Grid	Filter Rows:	Edit:	Export/Import
driver_id	reg_num	report_num	damage_amount
A02	KA053408	12	25000
A03	KA095477	13	25000
A01	KA052250	11	10000
A05	KA041702	15	5000
A04	KA031181	14	3000
NULL	NULL	NULL	NULL

68 • `SELECT AVG(DAMAGE_AMOUNT) FROM PARTICIPATED;`

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
AVG(DAMAGE_AMOUNT)			
13600.0000			

70 • `SELECT NAME FROM PERSON A, PARTICIPATED B WHERE A.DRIVER_ID = B.DRIVER_ID`
71 `AND DAMAGE_AMOUNT > (SELECT AVG(DAMAGE_AMOUNT) FROM PARTICIPATED);`

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
NAME			
Pradeep			
Smith			

73 • `SELECT MAX(DAMAGE_AMOUNT) FROM PARTICIPATED;`

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
MAX(DAMAGE_AMOUNT)			
25000			