

WEEK 1(insurance db)

CREATED A DATABASE NAMED 1bm21cs057_insurance:

```
create database 1bm21cs057_insurance;
```

```
use 1bm21cs057_insurance;
```

CREATED TABLE NAMED person:

```
create table person (driver_id varchar(10),  
name varchar (20), address varchar(30), primary key(driver_id));
```

CREATED TABLE NAMED car:

```
create table car(reg_num varchar(10),model varchar(10),year int, primary key(reg_num));
```

CREATED TABLE NAMED accident:

```
create table accident(report_num int, accident_date date, location varchar(20),primary  
key(report_num));
```

CREATED TABLE NAMED owns:

```
create table owns(driver_id varchar(10),reg_num varchar(10),  
primary key(driver_id, reg_num),  
foreign key(driver_id) references person(driver_id),  
foreign key(reg_num) references car(reg_num));
```

CREATED TABLE NAMED participated:

```
create table participated(driver_id varchar(10), reg_num varchar(10),  
report_num int, damage_amount int,  
primary key(driver_id, reg_num, report_num),  
foreign key(driver_id) references person(driver_id),  
foreign key(reg_num) references car(reg_num),  
foreign key(report_num) references accident(report_num));
```

INSERTED FIVE RECORDS INTO THE TABLE accident:

```
insert into accident values (11, '2003-01-01','Mysore Road');  
insert into accident values (12, '2004-02-02','South end Circle');  
insert into accident values (13,'2003-01-21','Bull temple Road');  
insert into accident values (14,'2008-02-17','Mysore Road');  
insert into accident values (15,'2004-03-05','Kanakpura Road');
```

	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	2004-03-05	Kanakpura Road
★	NULL	NULL	NULL

INSERTED FIVE RECORDS INTO THE TABLE person:

insert into person values('A01', 'richard', 'srinivas nagar');

insert into person values('A02', 'pradeep', 'rajaji nagar');

insert into person values('A03', 'smith', 'ashok nagar');

insert into person values('A04', 'venu', 'n r colony');

insert into person values('A05', 'john', 'hanumanth nagar');

	driver_id	name	address
▶	A01	richard	srinivas nagar
	A02	pradeep	rajaji nagar
	A03	smith	ashok nagar
	A04	venu	n r colony
	A05	john	hanumanth nagar
★	NULL	NULL	NULL

INSERTED FIVE RECORDS INTO THE TABLE car:

insert into car values('KA052250', 'indica', 1990);

insert into car values('KA031181', 'lancer', 1957);

insert into car values('KA095477', 'toyota', 1998);

insert into car values('KA053408', 'honda', 2008);

insert into car values('KA041702', 'audi', 2005);

	reg_num	model	year
▶	KA031181	lancer	1957
	KA041702	audi	2005
	KA052250	indica	1990
	KA053408	honda	2008
	KA095477	toyota	1998
★	NULL	NULL	NULL

INSERTED FIVE RECORDS INTO THE TABLE owns:

insert into owns values('A01', 'KA052250');

insert into owns values('A02', 'KA031181');

insert into owns values('A03', 'KA095477');

insert into owns values('A04', 'KA053408');

insert into owns values('A05', 'KA041702');

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

INSERTED FIVE RECORDS INTO THE TABLE participated:

insert into participated values('A01', 'KA052250', 11, 10000);

insert into participated values('A02', 'KA031181', 12, 50000);

insert into participated values('A03', 'KA095477', 13, 25000);

insert into participated values('A04', 'KA053408', 14, 3000);

insert into participated values('A05', 'KA041702', 15, 5000);

	driver_id	reg_num	report_num	damage_amount
▶	A01	KA052250	11	10000
	A02	KA031181	12	50000
	A03	KA095477	13	25000
	A04	KA053408	14	3000
	A05	KA041702	15	5000
*	NULL	NULL	NULL	NULL

TO DO:

1. List the entire participated relation in the descending order of damage amount.

SQL Query:

select * from participated order by(damage_amount) desc;

Output:

	driver_id	reg_num	report_num	damage_amount
▶	A02	KA031181	12	50000
	A03	KA095477	13	25000
	A01	KA052250	11	10000
	A05	KA041702	15	5000
	A04	KA053408	14	3000
*	NULL	NULL	NULL	NULL

2. Find the average damage amount.

SQL Query:

select avg(damage_amount)

from participated;

Output:

	avg(damage_amount)
▶	18600.0000

3. Delete the tuple whose damage amount is below the average damage amount.

SQL Query:

delete from participated

where damage_amount < (select t.amt from (select avg(damage_amount) as amt from participated) t);

select * from participated;

Output:

	driver_id	reg_num	report_num	damage_amount
▶	A02	KA031181	12	50000
	A03	KA095477	13	25000
*	NULL	NULL	NULL	NULL

4. List the name of drivers whose damage is greater than the average damage amount.

SQL Query:

select name

from person , participated

where person.driver_id=participated.driver_id and
participated.damage_amount > (select avg(damage_amount) from participated);

Output:

	name
▶	pradeep
	smith

5. Find maximum damage amount.

SQL Query:

select max(damage_amount) from participated;

Output:

	max(damage_amount)
▶	50000

