

DBMS CIE - 1

June 3, 2021

Vallisha M
1BM19CS177

Insurance Database (SET - 5)

```
create database cie1;  
use cie1;
```

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

```
desc person;
```

#	Field	Type	Null	Key	Default	Extra
1	driver_id	varchar(10)	NO	PRI	NULL	
2	name	varchar(20)	YES		NULL	
3	address	varchar(30)	YES		NULL	

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

```
desc car;
```

#	Field	Type	Null	Key	Default	Extra
1	reg_num	varchar(10)	NO	PRI	NULL	
2	model	varchar(10)	YES		NULL	
3	myear	int	YES		NULL	

```

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

```

#	Field	Type	Null	Key	Default	Extra
1	report_num	int	NO	PRI	<div></div>	
2	accident_date	date	YES		<div></div>	
3	location	varchar(20)	YES		<div></div>	

```

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)
);

```

```

desc owns;

```

#	Field	Type	Null	Key	Default	Extra
1	driver_id	varchar(10)	NO	PRI	<div></div>	
2	reg_num	varchar(10)	NO	PRI	<div></div>	

```

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)
);
desc participated;

```

#	Field	Type	Null	Key	Default	Extra
1	driver_id	varchar(10)	NO	PRI	NULL	
2	reg_num	varchar(10)	NO	PRI	NULL	
3	report_num	int	NO	PRI	NULL	
4	damage_amount	int	YES		NULL	

```

insert into person values('A01','Raghu','Electronic City');
insert into person values('A02','Rishab','Orange County');
insert into person values('A03','Rufus','NR Colony');
insert into person values('A04','Jamal','Lawrence Park');
insert into person values('A05','Kevin','Rosedale');
commit;
select * from person;

```

#	driver_id	name	address
1	A01	Raghu	Electronic City
2	A02	Rishab	Orange County
3	A03	Rufus	NR Colony
4	A04	Jamal	Lawrence Park
5	A05	Kevin	Rosedale
*	NULL	NULL	NULL

```

insert into car values('KA031111','Accord',2005);
insert into car values('KA041122','MX-5',2019);
insert into car values('KA051133','Indica',2010);
insert into car values('KA061144','Prius',2015);
insert into car values('KA071155','Camry',2020);
insert into car values('KA01010', 'Accord', 2002);
commit;
select * from car;

```

#	reg_num	model	myear
1	KA01010	Accord	2002
2	KA031111	Accord	2005
3	KA041122	MX-5	2019
4	KA051133	Indica	2010
5	KA061144	Prius	2015
6	KA071155	Camry	2020
*	NULL	NULL	NULL

```

insert into accident values(111,'2020-01-01','NR Road');
insert into accident values(122,'2020-02-02','Dalhousie Road');
insert into accident values(133,'2020-03-03','Henry Road');
insert into accident values(144,'2020-04-04','Beehive Road');
insert into accident values(155,'2020-05-05','Orange Street');
insert into accident values(20, '2008-12-01', 'Pinto Road');
commit;
select * from accident;

```

#	report_num	accident_date	location
1	20	2008-12-01	Pinto Road
2	111	2020-01-01	NR Road
3	122	2020-02-02	Dalhousie Road
4	133	2020-03-03	Henry Road
5	144	2020-04-04	Beehive Road
6	155	2020-05-05	Orange Street
*	NULL	NULL	NULL

```

insert into owns values ('A01','KA031111');
insert into owns values ('A02','KA041122');
insert into owns values ('A03','KA051133');
insert into owns values ('A04','KA061144');
insert into owns values ('A05','KA071155');
insert into owns values('A02', 'KA01010');
commit;
select * from owns;

```

#	driver_id	reg_num
1	A02	KA01010
2	A01	KA031111
3	A02	KA041122
4	A03	KA051133
5	A04	KA061144
6	A05	KA071155
*	NULL	NULL

```

insert into participated values ('A01','KA031111',111, 10000);
insert into participated values ('A02','KA041122',122, 20000);
insert into participated values ('A03','KA051133',133, 30000);
insert into participated values ('A04','KA061144',144, 40000);
insert into participated values ('A05','KA071155',155, 50000);
insert into participated values('A02', 'KA01010', 20, 500);
commit;
select * from participated;

```

#	driver_id	reg_num	report_num	damage_amount
1	A01	KA031111	111	10000
2	A02	KA01010	20	500
3	A02	KA041122	122	20000
4	A03	KA051133	133	30000
5	A04	KA061144	144	40000
6	A05	KA071155	155	50000
*	NULL	NULL	NULL	NULL

-- 3 (Adding a new accident)

```

insert into accident values(101,'2020-12-01','Xavier Road');
insert into participated values('A01','KA031111',101, 1001);
commit;
select * from accident;

```

#	report_num	accident_date	location
1	20	2008-12-01	Pinto Road
2	101	2020-12-01	Xavier Road
3	111	2020-01-01	NR Road
4	122	2020-02-02	Dalhousie Road
5	133	2020-03-03	Henry Road
6	144	2020-04-04	Beehive Road
7	155	2020-05-05	Orange Street
*	NULL	NULL	NULL

```
select * from participated;
```

#	driver_id	reg_num	report_num	damage_amount
1	A01	KA031111	101	1001
2	A01	KA031111	111	10000
3	A02	KA01010	20	500
4	A02	KA041122	122	20000
5	A03	KA051133	133	30000
6	A04	KA061144	144	40000
7	A05	KA071155	155	50000
*	NULL	NULL	NULL	NULL

```
-- 4 update damage amount
```

```
update participated set damage_amount = 18500 where reg_num = 'KA01010' and  
report_num = 20;
```

```
commit;
```

```
select * from participated;
```

#	driver_id	reg_num	report_num	damage_amount
1	A01	KA031111	101	1001
2	A01	KA031111	111	10000
3	A02	KA01010	20	18500
4	A02	KA041122	122	20000
5	A03	KA051133	133	30000
6	A04	KA061144	144	40000
7	A05	KA071155	155	50000
*	NULL	NULL	NULL	NULL

-- 5 descending order of damage amount

select * from participated order by damage_amount desc;

#	driver_ic	reg_num	report_num	damage_amount
1	A05	KA071155	155	50000
2	A04	KA061144	144	40000
3	A03	KA051133	133	30000
4	A02	KA041122	122	20000
5	A02	KA01010	20	18500
6	A01	KA031111	111	10000
7	A01	KA031111	101	1001
*	NULL	NULL	NULL	NULL

-- 6 delete less than average damage amount

set @average = (select avg(damage_amount) from participated);

delete from participated where damage_amount < @average;

select * from participated;

#	driver_ic	reg_num	report_num	damage_amount
1	A03	KA051133	133	30000
2	A04	KA061144	144	40000
3	A05	KA071155	155	50000
*	NULL	NULL	NULL	NULL

select @average;

#	@average
1	24214.428571428

-- 7 names of drivers whose damage amount is greater than average damage amount

select avg(damage_amount) from participated;

#	avg(damage_amount)
1	40000.0000


```
select name, damage_amount from person p join participated pr on pr.driver_id =  
p.driver_id where pr.damage_amount > (select avg(damage_amount) from  
participated);
```

#	name	damage_amount
1	Kevin	50000

```
-- 8 maximum damage amount  
select max(damage_amount) from participated;
```

#	max(damage_amount)
1	50000