WEEK-1
(1BM21CS045)

Q)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 relationEnter at least five tuples for each relation

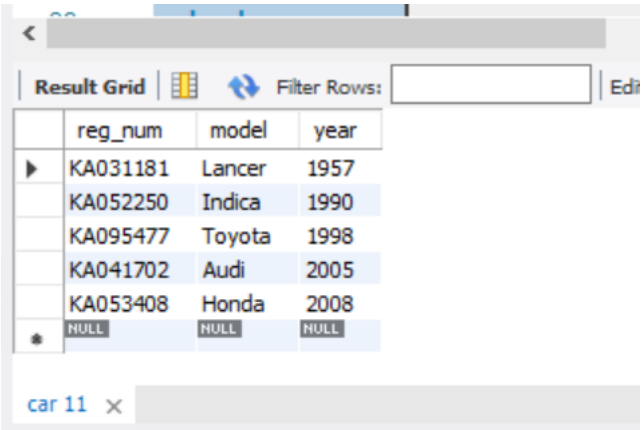
```
create database 1bm21cs045_insurance;
use 1bm21cs045_insurance;
create table person (
driver_id varchar(10),
name varchar(30),
address varchar(30),
primary key(driver_id)
);
desc person;

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

create table accident(
report_num int,
accident_date date,
location varchar(20),
primary key(report_num)
);
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)
);
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)
);
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' );
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','Jhon','Hanumanth nagar');
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);
insert into owns values('A01','KA052250');
insert into owns values('A02','KA053408');
insert into owns values('A03','KA095477');
insert into owns values('A04','KA031181');
insert into owns values('A05','KA041702');
insert into participated values('A01','KA052250',11,10000);
insert into participated values('A02','KA053408',12,50000);
insert into participated values('A03','KA095477',13,25000);
insert into participated values('A04','KA031181',14,3000);
insert into participated values('A05','KA041702',15,5000);
```

Display the entire CAR relation in the ascending order of manufacturing year.

SQL> select *from car

order by year asc;

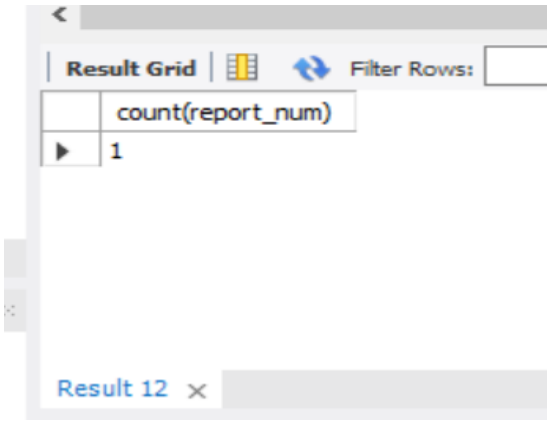


Find the number of accidents in which cars belonging to a specific model (example 'Lancer') were involved.

SQL> select count(report_num)

from car c, participated p

where c.reg_num=p.reg_num and c.model='Lancer';

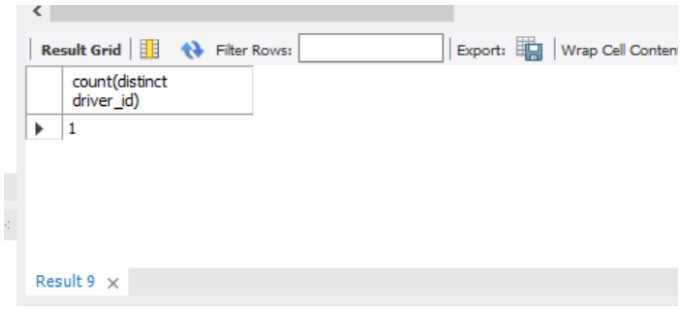


Find the total number of people who owned cars that were involved in accidents in 2008.

SQL> select count(distinct driver_id)

from participated a, accident b

where a.report_num=b.report_num and b.accident_date like '2008%';

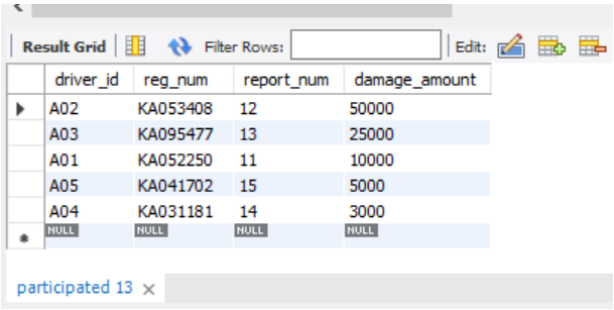


TO DO

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

SQL> select *from participated

order by damage_amount desc;



Result Grid | Filter Rows: | Edit:

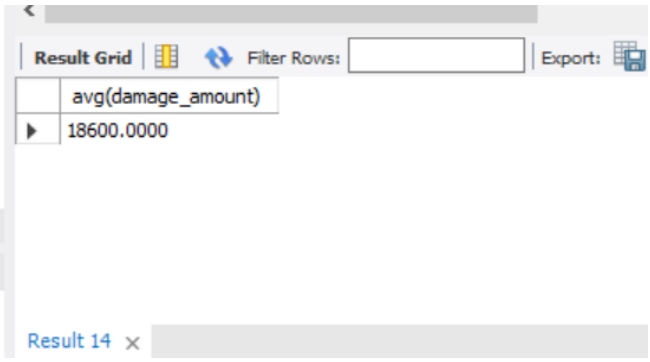
driver_id	reg_num	report_num	damage_amount
A02	KA053408	12	50000
A03	KA095477	13	25000
A01	KA052250	11	10000
A05	KA041702	15	5000
A04	KA031181	14	3000
NULL	NULL	NULL	NULL

participated 13

Find the average damage amount.

SQL> select avg(damage_amount)

from participated;



Result Grid | Filter Rows: | Export:

avg(damage_amount)
18600.0000

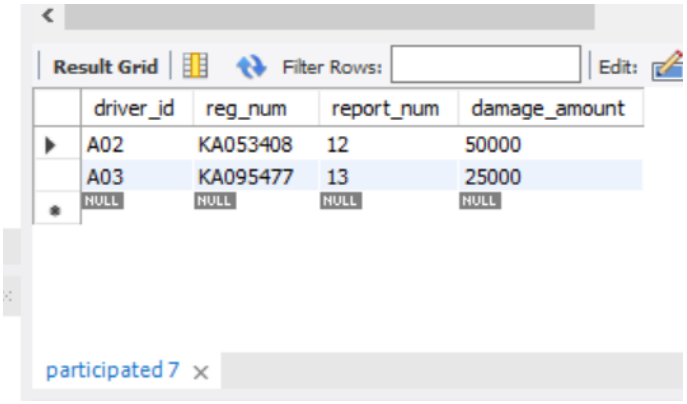
Result 14

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

SQL> delete from participated

where damage_amount < (select t.avg1 from (select avg(damage_amount) as avg1 from participated) t);

select *from participated;



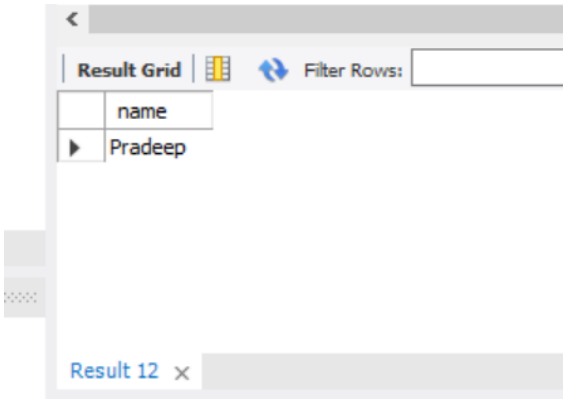
Result Grid | Filter Rows: | Edit:

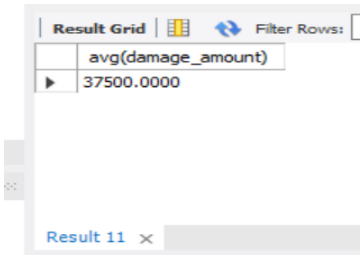
driver_id	reg_num	report_num	damage_amount
A02	KA053408	12	50000
A03	KA095477	13	25000
NULL	NULL	NULL	NULL

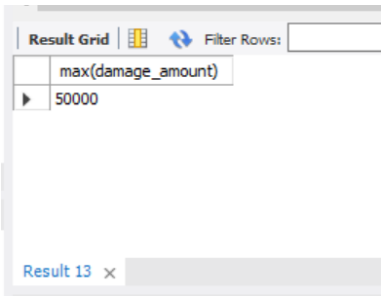
participated 7

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

```
SQL> select name
from person p, participated q
where p.driver_id=q.driver_id and damage_amount >
(select avg(damage_amount)
from participated
);
```





Find the maximum damage amount

```
SQL>select max(damage_amount)
from participated;
```