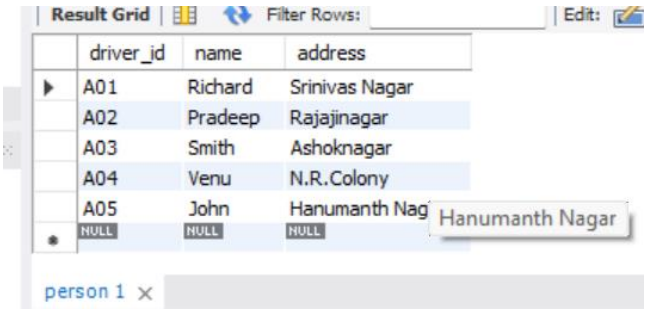
INSURANCE DATABASE

1. TABLE CREATION:

```
create database insurance;
use insurance;

create table person (

driver_id varchar(10),
name varchar(20),
address varchar(30),
primary key(driver_id)
);
insert into person values('A01','Richard','Srinivas Nagar');
insert into person values('A02','Pradeep','Rajajinagar');
insert into person values('A03','Smith','Ashoknagar');
insert into person values('A04','Venu','N.R.Colony');
insert into person values('A05','John','Hanumanth Nagar);

select*from person;
```

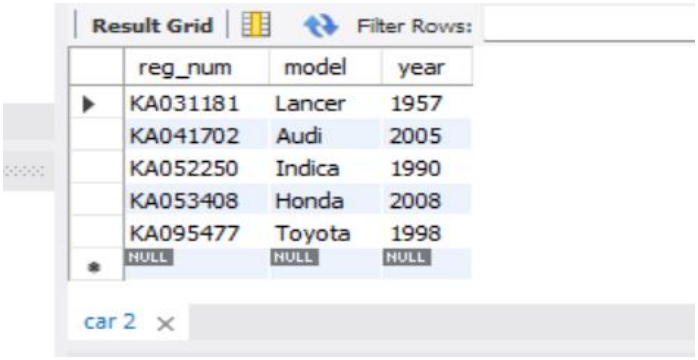
OUTPUT




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

OUTPUT



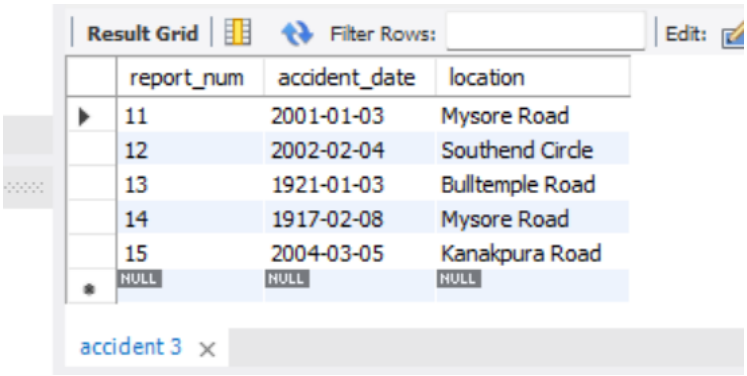
Result Grid | Filter Rows:

reg_num	model	year
KA031181	Lancer	1957
KA041702	Audi	2005
KA052250	Indica	1990
KA053408	Honda	2008
KA095477	Toyota	1998
NULL	NULL	NULL

car 2

```
create table accident(report_num int,
 accident_date date,
 location varchar(20),
 primary key(report_num)
 );
insert into accident values(11,'2001-01-03','Mysore Road');
insert into accident values(12,'2002-02-04','Southend Circle');
insert into accident values(13,'1921-01-03','Bulltemple Road');
insert into accident values(14,'1917-02-08','Mysore Road');
insert into accident values(15,'2004-03-05','Kanakpura Road');
SELECT*FROM accident;
```

OUTPUT



Result Grid | Filter Rows: | Edit:

report_num	accident_date	location
11	2001-01-03	Mysore Road
12	2002-02-04	Southend Circle
13	1921-01-03	Bulltemple Road
14	1917-02-08	Mysore Road
15	2004-03-05	Kanakpura Road
NULL	NULL	NULL

accident 3

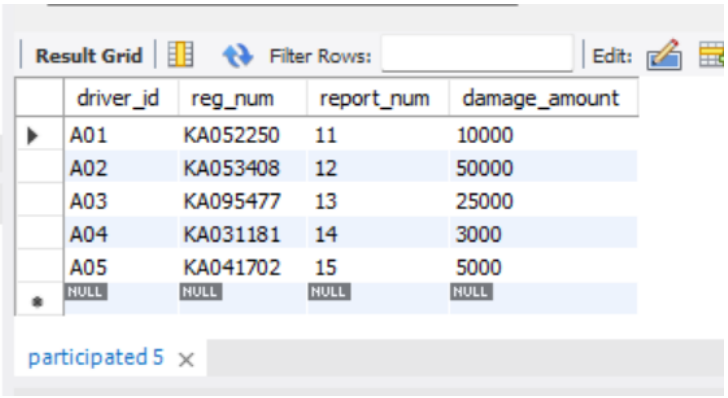
```
create table owns(
driver_id varchar(10),
reg_num varchar(10),
primary key(driver_id, reg_num),
foreign key(driver_id) references person(driver_id),
foreign key(reg_num) references car(reg_num)
);

insert into owns values ('A01','KA052250');
insert into owns values ('A02','KA053408');
insert into owns values ('A04','KA031181');
insert into owns values ('A03','KA095477');
insert into owns values ('A05','KA041702');
select*from owns
```

OUTPUT


```
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 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);
select*from participated;
```

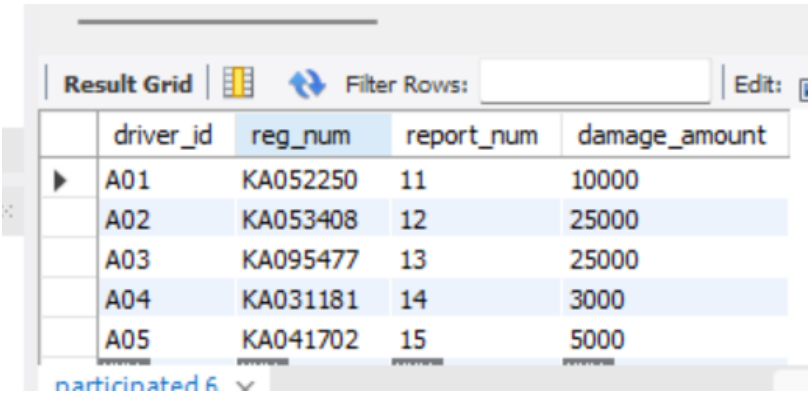
OUTPUT



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

2. **Update the damage amount to 25000 for the car with a specific re_num**

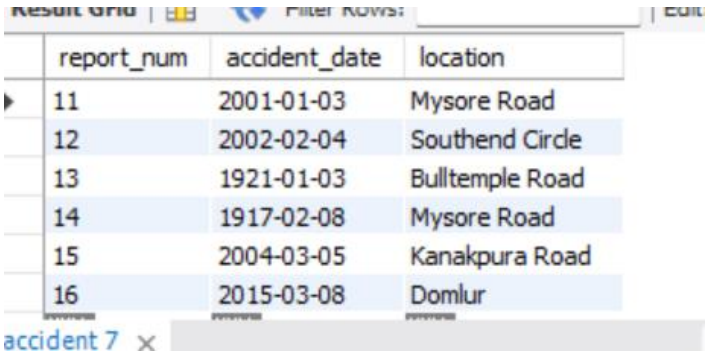
```
update participated
set damage_amount=25000
where reg_num='KA053408' and report_num=12;
```



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

3. **Add a new accident to the database.**

   insert into accident values(16,'15-03-08','Domlur');
   select*from accident;

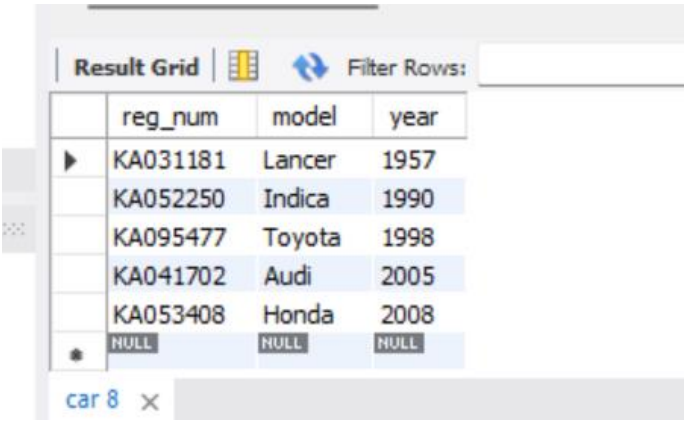


report_num	accident_date	location
11	2001-01-03	Mysore Road
12	2002-02-04	Southend Circle
13	1921-01-03	Bulltemple Road
14	1917-02-08	Mysore Road
15	2004-03-05	Kanakpura Road
16	2015-03-08	Domlur

accident 7

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

   select * from car
   order by year asc;



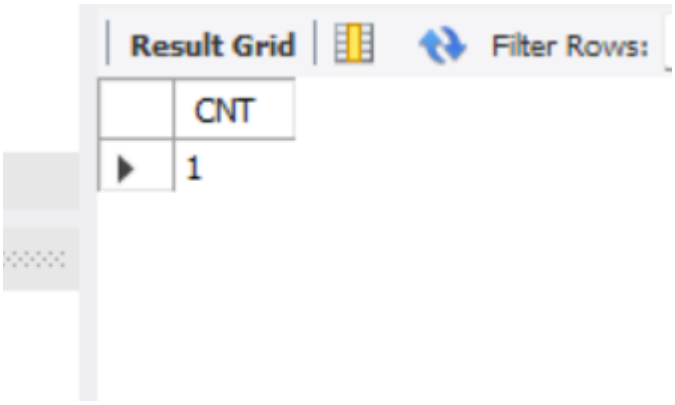
Result Grid | Filter Rows:

reg_num	model	year
KA031181	Lancer	1957
KA052250	Indica	1990
KA095477	Toyota	1998
KA041702	Audi	2005
KA053408	Honda	2008
NULL	NULL	NULL

car 8

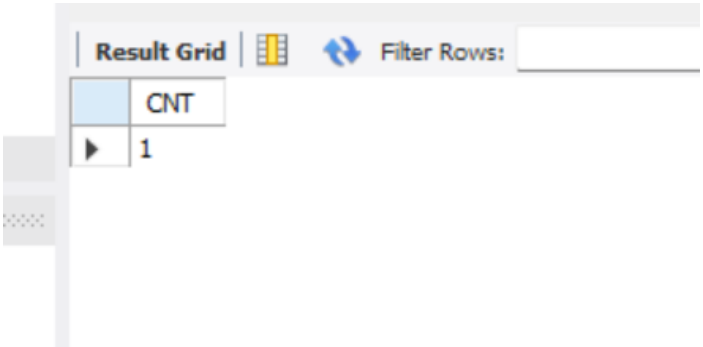
5. **Find the number of accidents in which cars belonging to a specific model (example 'Lancer') were involved**

   select count(report_num) AS CNT
   from car c,participated p
   where c.reg_num=p.reg_num and model="Indica";



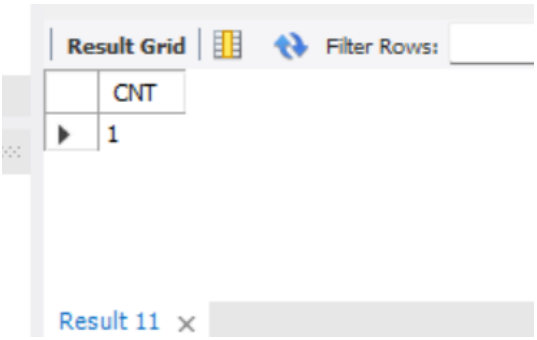
6. **Find the total number of people who owned cars that involved in accidents in 2008.**

```
SELECT COUNT(DISTINCT A.driver_id) AS CNT
FROM
   participated A,
   accident B
WHERE
   A.report_num = B.report_num
   AND B.accident_date LIKE '%08';
```



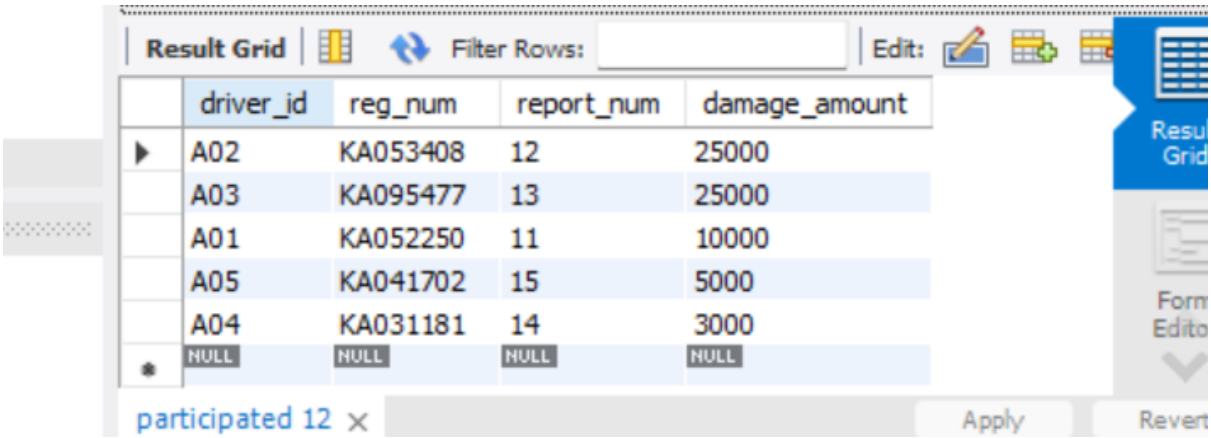
7. **Find the number of accidents in which cars belonging to a specific model (ex: 'Lancer') were involved accidents in 2008.**

```
select count(distinct driver_id) CNT
 from participated a, accident b
 where a.report_num= b.report_num and b.accident_date like '%08';
```



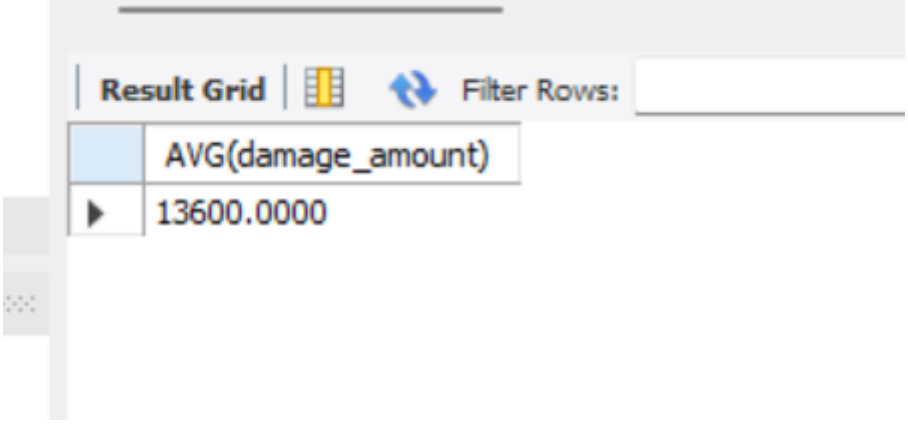
8. **LIST THE ENTIRE PARTICIPATED RELATION IN THE DESCENDING ORDER OF DAMAGE AMOUNT.**

```
SELECT * FROM participated
ORDER BY damage_amount DESC;
```



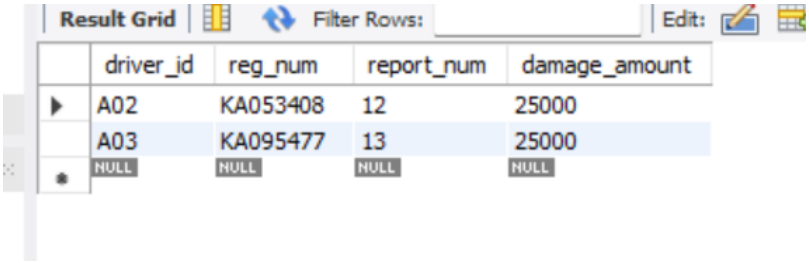
9. **FIND THE AVERAGE DAMAGE AMOUNT**

```
SELECT AVG(damage_amount)
FROM participated;
```



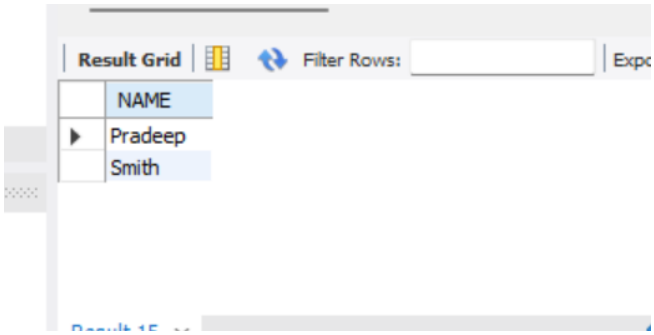
10. DELETE THE TUPLE FROM PARTICIPATED RELATION WHOSE DAMAGE AMOUNT IS BELOW THE AVERAGE DAMAGE AMOUNT

```
SET SQL_SAFE_UPDATES = 0;

DELETE FROM PARTICIPATED
WHERE DAMAGE_AMOUNT < (
   SELECT avg_damage FROM (
      SELECT AVG(DAMAGE_AMOUNT) AS avg_damage FROM
PARTICIPATED
   ) AS temp
);

SELECT * FROM PARTICIPATED;
```



11. LIST THE NAME OF DRIVERS WHOSE DAMAGE IS GREATER THAN THE AVERAGE DAMAGE AMOUNT.

```
SELECT NAME FROM person A, participated B
WHERE A.driver_id = B.driver_id
AND damage_amount;(SELECT AVG(damage_amount) FROM participated);
```



12.FIND MAXIMUM DAMAGE AMOUNT.

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