WEEK-1

(1BM21CS059)

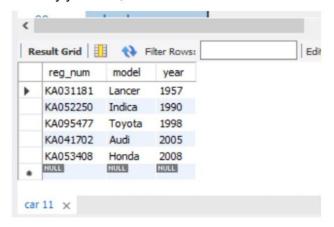
Q)Create the above tables by properly specifying the primary keys and the foreign keys as done in previous week's lab and Enter at least five tuples for each relationEnter at least five tuples for each relation

```
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),
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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;

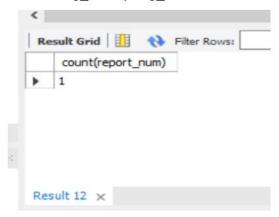


Find the number of accidents in which cars belonging to a specific model (example 'Lancer') were involved.

SQL> select count(report_num)

from car c, participated p

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

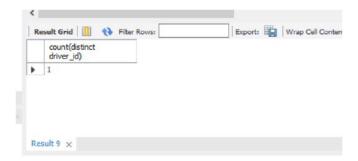


Find the total number of people who owned cars that were involved in accidents in 2008.

SQL> select count(distinct driver id)

from participated a, accident b

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

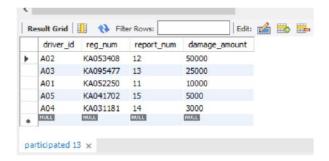


TO DO

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

SQL> select *from participated

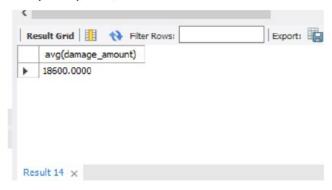
order by damage amount desc;



Find the average damage amount.

SQL> select avg(damage_amount)

from participated;

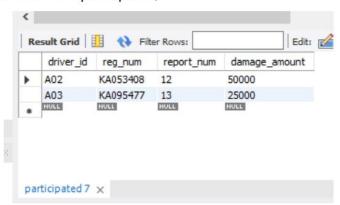


Delete the tuple whose damage amount is below the average damage amount.

SQL> delete from participated

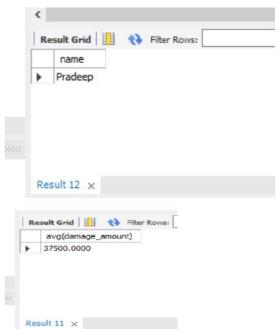
where damage_amount < (select t.avg1 from (select avg(damage_amount) as avg1 from participated) t);

select *from participated;



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;

