MORE QUERIES INSURANCE DATABASE

**Question**

(Week 2)

- PERSON (driver\_id: String, name: String, address: String)

- CAR (reg\_num: String, model: String, year: int)

- ACCIDENT (report\_num: int, accident\_date: date, location: String)

- OWNS (driver\_id: String, reg\_num: String)

- PARTICIPATED (driver\_id: String,reg\_num: String, report\_num: int, damage\_amount:

int)

- Create the above tables by properly specifying the primary keys and the foreign keys as done in “week 1 programs” and

Enter at least five tuples for each relation

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

- Find the number of accidents in which cars belonging to a specific model (example

“Lancer”) were involved.

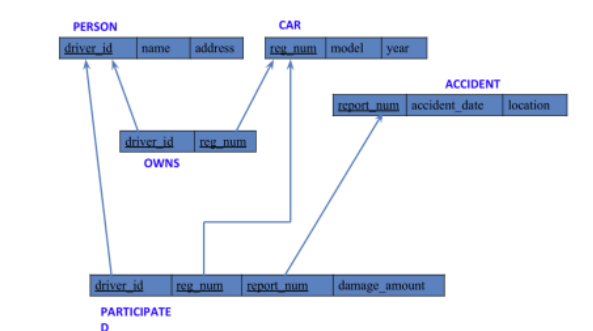
- Find the total number of people who owned cars that involved in accidents in 2008.

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

- list the name of driver whose damage is greater than the average damage amount

-find maximum damage amount

**Schema Diagram**



**Create database**

create database insurance1;

use insurance1;

**Create table**

create table person1 (

driver\_idvarchar(10),

name varchar(20),

address varchar(30),

primary key(driver\_id)

);

create table accident1 (

report\_num int,

accident\_date date,

location varchar(20),

primary key(report\_num)

);

create table car1 (

reg\_numvarchar(10),

model varchar(10),

year int,

primary key(reg\_num)

);

create table participated1 (

driver\_idvarchar(10),

reg\_numvarchar(10),

report\_num int,

damage\_amount int,

primary key(driver\_id, reg\_num, report\_num),

foreign key(driver\_id) references person1(driver\_id),

foreign key(reg\_num) references car1(reg\_num),

foreign key(report\_num) references accident1(report\_num)

);

create table owns1 (

driver\_idvarchar(10),

reg\_numvarchar(10),

primary key(driver\_id, reg\_num),

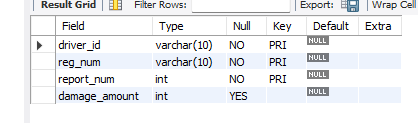
foreign key(driver\_id) references person1(driver\_id),

foreign key(reg\_num) references car1(reg\_num)

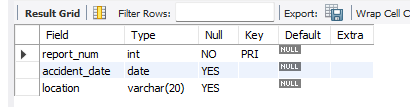
);

**Structure of the table**

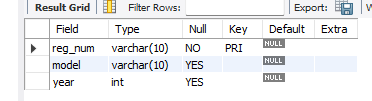
DESC person1;



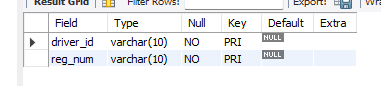
DESC accident1;



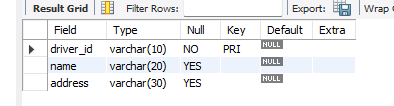
DESC car1;



DESC participated1;



DESC owns1;



**Inserting Values to the table**

insert into person1 values ('A01','RICHARD','SRINIVAS NAGAR');

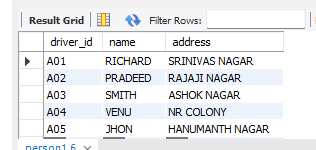
insert into person1 values ('A02','PRADEED','RAJAJI NAGAR');

insert into person1 values ('A03','SMITH','ASHOK NAGAR');

insert into person1 values ('A04','VENU','NR COLONY');

insert into person1 values ('A05','JHON','HANUMANTH NAGAR');

select \* from person1;



insert into accident1 values(11,'2003-01-01','mysore road');

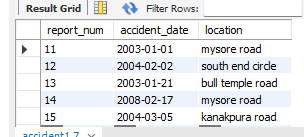
insert into accident1 values(12,'2004-02-02','south end circle');

insert into accident1 values(13,'2003-01-21','bull temple road');

insert into accident1 values(14,'2008-02-17','mysore road');

insert into accident1 values(15,'2004-03-05','kanakpura road');

select \* from accident1;



insert into car values(“KA052250”,”Indica”, “1990”);

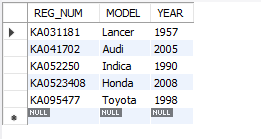
insert into car values(“KA031181”,”Lancer”, “1957”);

insert into car values(“KA095477”,”Toyota”, “1998”);

insert into car values(“KA053408”,’Honda’, ‘2008’);

insert into car values(“KA041702”,”Audi”,”2005”);

select \* from car;



insert into owns1 values('A01','KA052250');

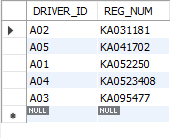
insert into owns1 values('A02','KA053408');

insert into owns1 values('A03','KA031181');

insert into owns1 values('A04','KA041702');

insert into owns1 values('A05','KA095477');

select \* from owns1;



insert into participated1 values('A01','KA052250',11,10000);

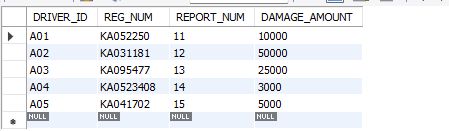
insert into participated1 values('A02','KA053408',12,50000);

insert into participated1 values('A03','KA031181',13,25000);

insert into participated1 values('A04','KA041702',14,3000);

insert into participated1 values('A05','KA095477',15,5000);

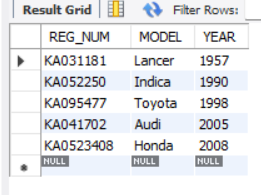
select \* from participated1;



**Queries**

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

select \* from car order by year asc;

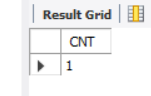


2).Find the number of accidents in which cars belonging to a specific model (example “Lancer”) were

involved.

select count(report\_num) CNT from car c,participated p where c.reg\_num=p.reg\_num and

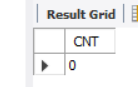
model=”Lancer”);



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

select count(distinct driverid) CNT from participated a, accident b where a.reportno=

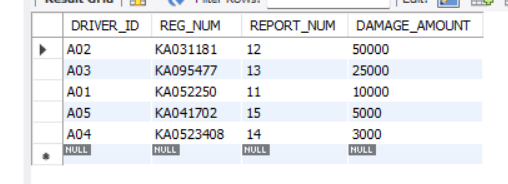
b.reportno and b.adate like ‘%08’;

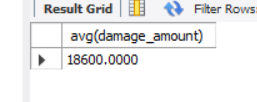


4).List the entire participated relation in the descending order of damage amount. Find the average damage amount.

select \* from PARTICIPATED order by damage\_amount desc;

select avg(damage\_amount) from PARTICIPATED;

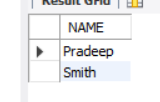




5).List the name of drivers whose damage is greater than the average damage amount.

Select name from PERSON A, PARTICIPATED B WHERE A.driver\_id = B.driver\_id AND

damage\_amount > (SELECT AVG(damage\_amount) FROM PARTICIPATED);



6).Find maximum damage amount

select max(damage\_amount) from PARTICIPATED;

