**LAB-1**

**Insurance Database**

**Question**

**(Week 1)**

**-** 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. **-** Enter at least five tuples for each relation

**-** Display Accident date and location

**-** Update the damage amount to 25000 for the car with a specific reg\_num (example 'K A053408' ) for which the accident report number was 12.

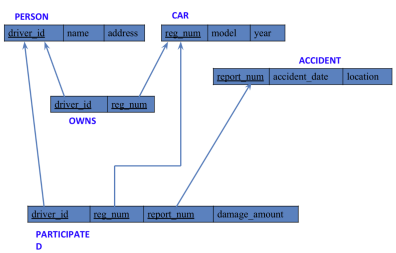
**-** Add a new accident to the database.

**-** To Do

**-** Display Accident date and location

**-** Display driver id who did accident with damage amount greater than or equal to Rs.25000

**Schema Diagram**

**Create database**

create database insurance\_101;

use insurance\_101;

**Create table**

create table person\_101(

driver\_id varchar(20),

name varchar (30),

address varchar(50),

primary key(driver\_id)

);

create table car\_101(

reg\_num varchar(10),

model varchar(15),

year int,

primary key(reg\_num)

);

create table owns\_101(

driver\_id varchar(20),

reg\_num varchar(10),

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

foreign key(driver\_id) references person\_101(driver\_id),

foreign key(reg\_num) references car\_101(reg\_num)

);

create table accident\_101(

report\_num int,

accident\_date date,

location varchar(50),

primary key(report\_num)

);

create table participitated\_101(

driver\_id varchar(20),

reg\_num varchar(10),

report\_num int,

damage\_amount int,

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

foreign key(driver\_id) references person\_101(driver\_id),

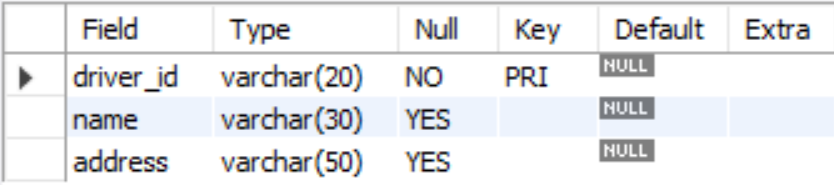
foreign key(reg\_num) references car\_101(reg\_num),

foreign key(report\_num) references accident\_101(report\_num)

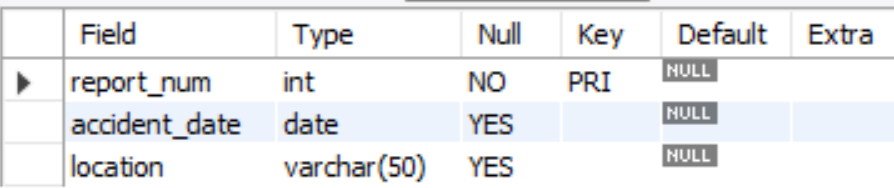
);

**Structure of the table**

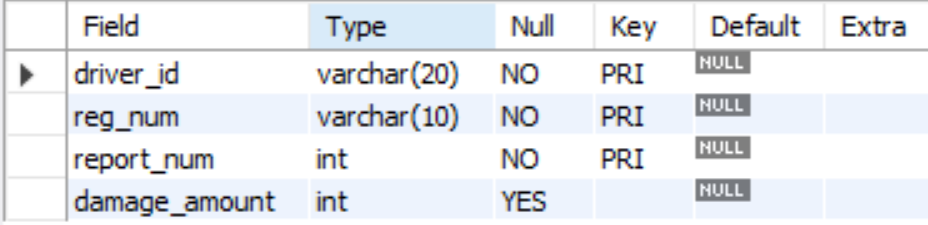
desc person\_101;



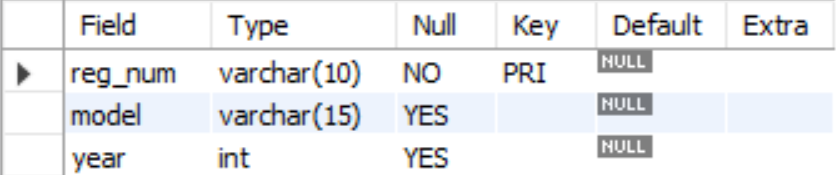
desc accident\_101;



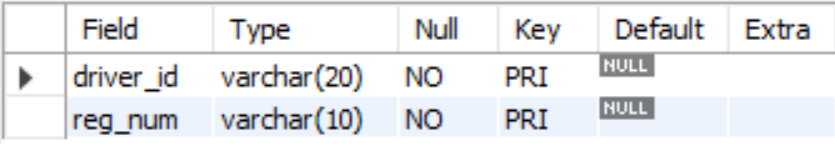
desc participitated\_101;



desc car\_101;



desc owns\_101;



**Inserting Values to the table**

insert into person\_101 values("A01","Richard","Srinivas nagar");

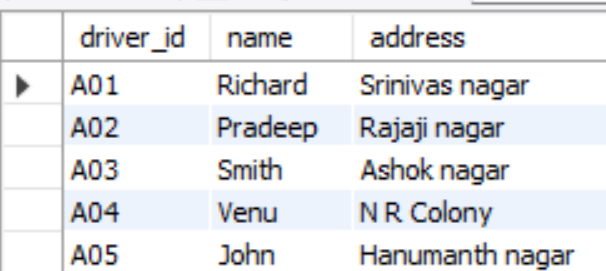
insert into person\_101 values("A02","Pradeep","Rajaji nagar");

insert into person\_101 values("A03","Smith","Ashok nagar");

insert into person\_101 values("A04","Venu","N R Colony");

insert into person\_101 values("A05","John","Hanumanth nagar");

select \* from person\_101;



insert into car\_101 values("KA052250","Indica",1990);

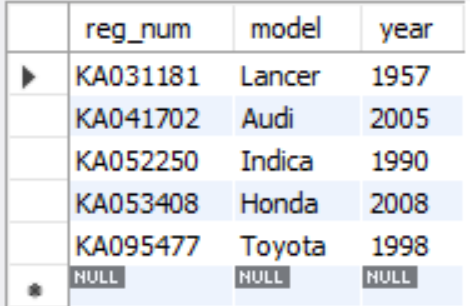
insert into car\_101 values("KA031181","Lancer",1957);

insert into car\_101 values("KA095477","Toyota",1998);

insert into car\_101 values("KA053408","Honda",2008);

insert into car\_101 values("KA041702","Audi",2005);

select \* from car\_101;



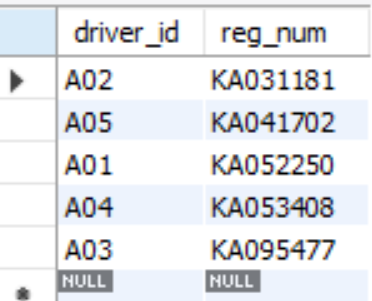
insert into owns\_101 values("A01","KA052250");

insert into owns\_101 values("A02","KA031181");

insert into owns\_101 values("A03","KA095477");

insert into owns\_101 values("A04","KA053408");

insert into owns\_101 values("A05","KA041702");



insert into accident\_101 values(11,"2003-01-01","MysoreRoad");

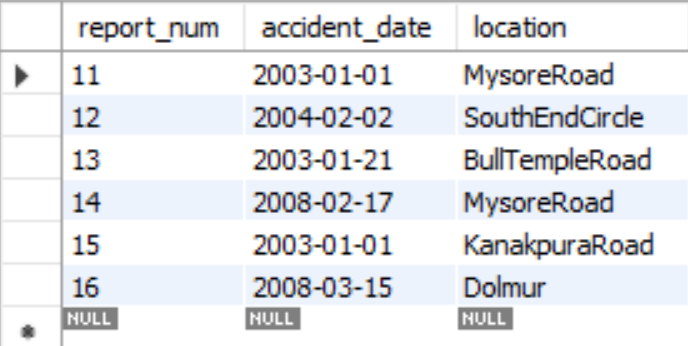
insert into accident\_101 values(12,"2004-02-02","SouthEndCircle");

insert into accident\_101 values(13,"2003-01-21","BullTempleRoad");

insert into accident\_101 values(14,"2008-02-17","MysoreRoad");

insert into accident\_101 values(15,"2003-01-01","KanakpuraRoad");

select \* from accident\_101;



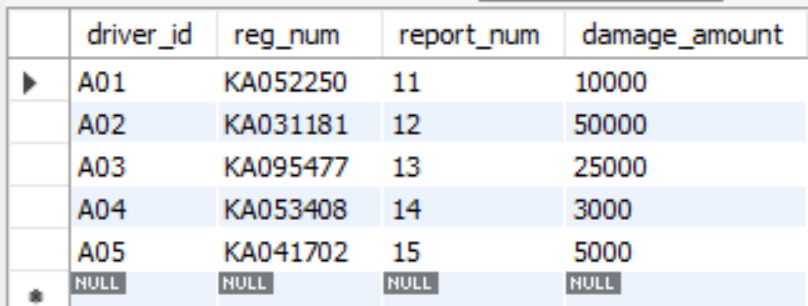
insert into participitated\_101 values("A01","KA052250",11,10000);

insert into participitated\_101 values("A02","KA031181",12,50000);

insert into participitated\_101 values("A03","KA095477",13,25000);

insert into participitated\_101 values("A04","KA053408",14,3000);

insert into participitated\_101 values("A05","KA041702",15,5000);

select \* from participitated\_101;

**Queries**

**Update the damage amount to 25000 for the car with a specific reg-num (example 'KA053408' ) for which the accident report number was 12.**

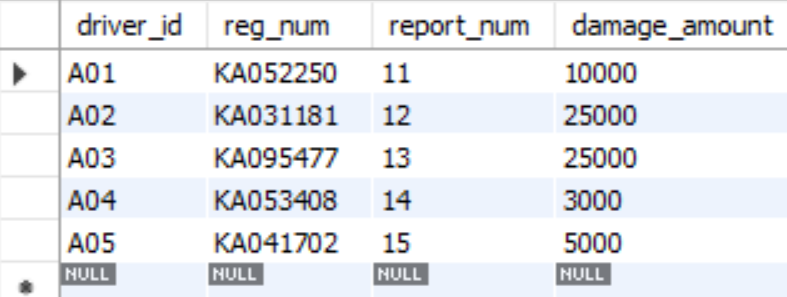
update participitated\_101

set damage\_amount=25000

where reg\_num='KA031181' and report\_num=12;

commit;

select \* from participitated\_101;



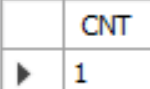
**Find the total number of people who owned cars that were involved in accidents in 2008.**

select count(distinct driver\_id) CNT

from participitated\_101, accident\_101

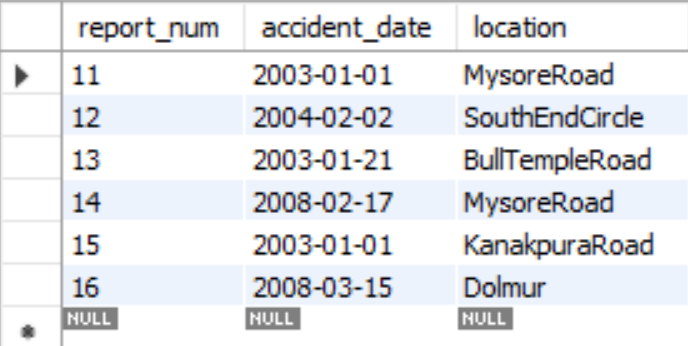
where participitated\_101.report\_num=accident\_101.report\_num and accident\_101.accident\_date like

'\_\_08%';



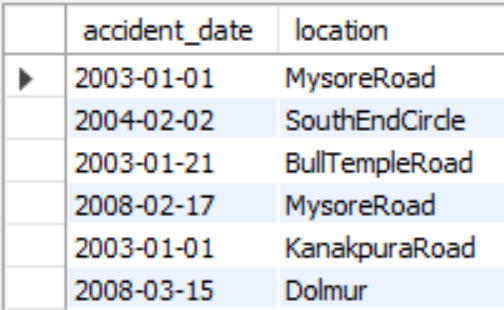
**Add a new accident to the database.**

insert into accident values(16,'2008-03-08',"Domlur");

select \* from accident\_101;

**TO DO:**

**● Display accident date and location**

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**● Display driver id who did accident with damage amount greater than or equal to Rs.25000**

select driver\_id

from participitated\_101

where damage\_amount>=25000;

