WEEK 1 – Insurance Database   22/09/2025

Q. 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.

USE THIS: 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)

Solution: USE newdatabase01;

create table person (driver_id varchar(10),

name varchar(20), address varchar(30), primary key(driver_id));

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");

Select * from accident;

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34 •     INSERT into car values("KA041702","Audi",2005);
35 •     Select * from car;
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report_num	accident_date	location
11	2003-01-01	Mysore Road
12	2004-02-02	South end Circle
13	2003-01-21	Bull temple Road
14	2008-02-17	Mysore Road
15	2004-03-05	Kanakpura Road
16	2008-03-08	Domlur
NULL	NULL	NULL

accident 10 ✕

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);

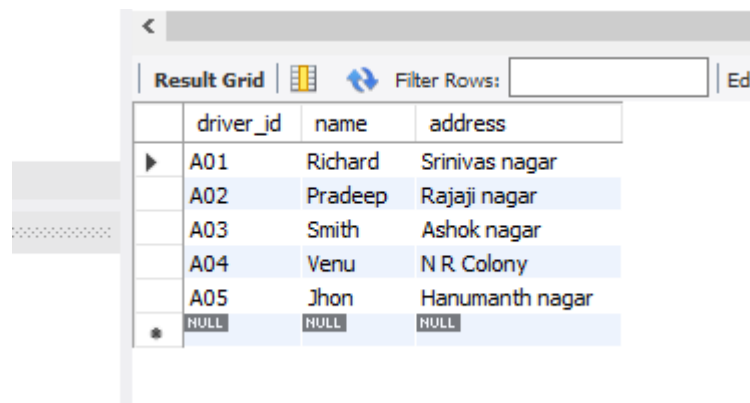INSERT into car values("KA041702","Audi",2005);

Select * from car;

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

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");

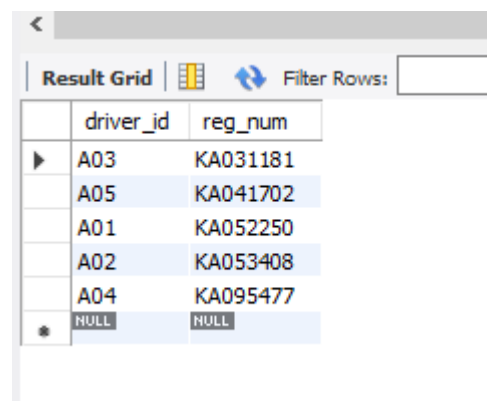INSERT into person values("A05","Jhon","Hanumanth nagar");

Select * from person;

driver_id	name	address
A01	Richard	Srinivas nagar
A02	Pradeep	Rajaji nagar
A03	Smith	Ashok nagar
A04	Venu	N R Colony
A05	Jhon	Hanumanth nagar
NULL	NULL	NULL

INSERT into owns values("A01","KA052250");

INSERT into owns values("A02","KA053408");

INSERT into owns values("A03","KA031181");

INSERT into owns values("A04","KA095477");

INSERT into owns values("A05","KA041702");

Select * from owns;

driver_id	reg_num
A03	KA031181
A05	KA041702
A01	KA052250
A02	KA053408
A04	KA095477
NULL	NULL

INSERT into participated values("A01","KA052250",11,10000);

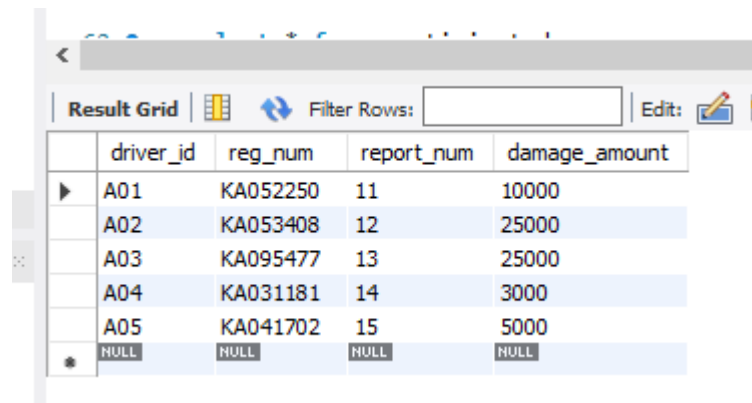INSERT into participated values("A02","KA053408",12,50000);

INSERT into participated values("A03","KA095477",13,25000);

INSERT into participated values("A04","KA031181",14,3000);

INSERT into participated values("A05","KA041702",15,5000);
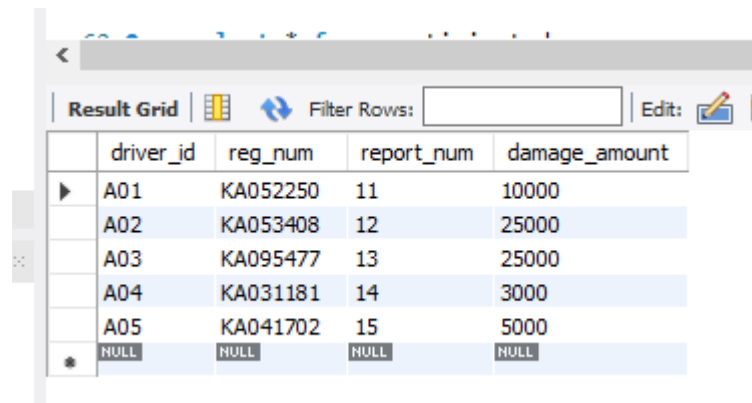
select * from participated;

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
NULL	NULL	NULL	NULL

update participated set damage_amount=25000

where reg_num='KA053408' and report_num=12;

select * from participated;

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
NULL	NULL	NULL	NULL

select count(distinct driver_id) CNT

from participated a, accident b

where a.report_num=b.report_num and b.accident_date like '%08%';

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

select * from accident;

select driver_id from participated where damage_amount>=25000;