PROGRAM 1: INSURANCE DATABASE

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Consider the Insurance database given below. The data types are specified.
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)
i) Create the above tables by properly specifying the primary keys and the foreign keys.
ii)Enter at least five tuples for each relation.
iii)Demonstrate how you
a. Update the damage amount to 2500 for the car with a specific reg-num(K
A37) for which the accident report number was 12.
b.Add a new accident to the database.
iv) Find the total number of people who owned cars that involved in accidents in 2008.
v)Find the number of accidents in which cars belonging to a specific model (MARUTI )were involved.
create database ins;
use ins;
create table person(
driver_id varchar(30) primary key,
nam varchar(30),
address varchar(30)
);
create table accident(
report_number int primary key,
dat date,
location varchar(30)
);
create table car(
regno varchar(30),
model varchar(30),
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yea int
);
alter table car
add primary key(regno);
create table owns(
driver_id varchar(30),
regno varchar(30),
foreign key(driver_id) references person(driver_id) on delete set null on update cascade,
foreign key(regno) references car(regno) on delete set null on update cascade
);
create table participated(
driver_id varchar(30),
regno varchar(30),
report_number int,
dam int,
foreign key(driver_id) references person(driver_id) on update cascade on delete set null,
foreign key(regno) references car(regno) on update cascade on delete set null,
foreign key(report_number) references accident(report_number) on update cascade on delete set
null
);
insert into person(driver_id,nam,address)
values('A01','Praveen','Karnataka'),('A02','Saquib','Jharkhand'),('A03','Vihari','Andhra
Pradesh'),('A04','Karthik','Tamil Nadu'),('A05','Bumrah','Gujarat'),('A06','Hari','Karnataka');
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insert into car(regno, model, yea)

values('KA37','MAHINDRA',2008),('KA35','SKODA',2008),('KA36','MARUTI',2009),('KA39','RENAULT',2010),('KA38','Honda',2012),('KA30','HYUNDAI',2014);



insert into accident(report_number,dat,location) values(12,'2008-10-11','Koppal'),(13,'2008-11-19','Hubli'),(14,'2008-08-11','Kolkata'),(15,'2008-08-08','Delhi'),(16,'2008-07-07','Bengaluru'),(17,'2008-06-05','Mumbai');



insert into owns(driver_id,regno)

values('A01','KA37'),('A02','KA35'),('A03','KA36'),('A0','KA39'),('A05','KA38'),('A06','KA30');

driver_id	regno
A01	KA37
A02	KA35
A03	KA36
A04	KA39
A05	KA38
A06	KA30

insert into participated(driver_id,regno,report_number,dam) values('A01','KA37',12,2000),('A02','KA35',13,1500),('A03','KA36',14,2000),('A0','KA39',15,2500),('A05','KA38',16,3000),('A06','KA30',17,4000);

driver_id	regno	report_number	dam
A01	KA37	12	2000
A02	KA35	13	1500
A03	KA36	14	2000
A04	KA39	15	2500
A05	KA38	16	3000
A06	KA30	17	4000

select * from person;

select * from car;

select * from accident;

select * from owns;

select * from participated;

update participated

set dam=2500

where report_number=12 and regno='KA37';

driver_id	regno	report_number	dam
A01	KA37	12	2500
A02	KA35	13	1500
A03	KA36	14	2000
A04	KA39	15	2500
A05	KA38	16	3000
A06	KA30	17	4000
A09	KA31	12	2000

insert into accident(report_number,dat,location) values(18,'2008-11-19','Koppal'); insert into accident(report_number,dat,location) values(19,'2000-11-19','Koppal');



insert into person(driver_id,nam,address) values('A09','Hari K','Karnataka');



insert into car(regno, model, yea) values('KA31', 'MARUTI', 2008);



insert into participated(driver id,regno,report number,dam) values('A09','KA31',12,2000);

driver_id	regno	report_number	dam
A01	KA37	12	2500
A02	KA35	13	1500
A03	KA36	14	2000
A04	KA39	15	2500
A05	KA38	16	3000
A06	KA30	17	4000
A09	KA31	12	2000

select count(distinct driver_id) cnt from participated a,accident b where b.report_number=b.report_number and b.dat like '%08';

select count(distinct driver	r_id) cnt from participated a,accident b where b.re	port_number=b.report_number and b.dat <u>like</u> '%08
		Profiling [Edit inline] [Edit] [Explain SQL]
☐ Show all │ Number of row	/s: 25 V Filter rows: Search this table	
+ Options cnt 7		

select count(distinct report_number) cn from car x,participated y where y.regno=x.regno and x.model='MARUTI';

<pre>select count(distinct report_number) cn from car x,participated y where y.regno=x.regr</pre>	no and x.model='MARUTI'
	Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [
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select * from participated order by dam desc;

select avg(dam) av from participated;

SET SQL_SAFE_UPDATES=0;

delete from participated

where dam<=2500;

select nam from person p ,participated q where p.driver_id=q.driver_id and dam>2500;

select nam,dam from person p ,participated q where p.driver_id=q.driver_id and dam>2500;