

DBMS LAB -1

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create database info
use info;
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 own (
driver_id varchar(20),
reg_num varchar(10),
primary key(driver_id, reg_num),
foreign key(driver_id) references person (driver_id),
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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 person(driver_id, name,address)
values ('A01','Richard','Srinivasnagar'),('A02','Pradeep','Rajajinagar'),('A03','Smith','Ashoknagar'),
('A04','Renu','NRnagar'),('A05','John','Hanumannagar');

insert into car (reg_num, model, year)
values ('KA052250','Indica','1999'),('KA052350','Lancer','2001'),('KA059950','Toyota','2010'),
('KA052490','Honda','2007'),('KA0599650','Audi','2006');

insert into accident(report_num, accident_date, location)
values('11', '2000-01-03', 'Mysure'), ('12', '2010-06-20', 'Hubli'), ('13', '2009-07-13', 'Dharwad'), ('14',
'2014-01-16', 'Bangalore'), ('15', '2003-05-07', 'Gadag');

insert into own(driver_id, reg_num)
values ('A01','KA052250'),('A02','KA052350'),('A03','KA059950'),('A04','KA052490'),
('A05','KA0599650');
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insert into participated (driver_id, reg_num, report_num, damage_amount)
values ('A01','KA052250','11','24000'),('A02','KA052350','12','18000'),('A03','KA059950','13','30000'),
('A04','KA052490','14','10000'),('A05','KA0599650','15','10001');
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LAB QUERIES:

1. SELECT accident_date, location FROM Accident;

2. SELECT DISTINCT driver_id

FROM Participation

WHERE damage_amount >= 25000;

3. SELECT driver_id, model FROM Own

JOIN Car ON car_id = car_id;

4. SELECT accident_id, a.accident_date, location, driver_id, damage_amount

FROM Accident

JOIN Participation ON a.accident_id = p.accident_id;

5. SELECT accident_id, SUM(damage_amount) AS total_damage FROM Participation

GROUP BY accident_id;

6. SELECT driver_id FROM Participation

GROUP BY driver_id

HAVING COUNT(DISTINCT accident_id) > 1;

7. SELECT driver_id, AVG(damage_amount) AS avg_damage FROM Participation

GROUP BY driver_id;

8. SELECT driver_id, accident_id, damage_amount FROM Participated

WHERE damage_amount = (

SELECT MAX(damage_amount) FROM Participation

);

9. CREATE VIEW AccidentSummary AS

SELECT a.accident_id, a.accident_date, a.location,

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COUNT(p.driver_id) AS participated_count,  
SUM(p.damage_amount) AS total_damage  
FROM Accident a  
JOIN Participated p ON a.accident_id = p.accident_id  
GROUP BY a.accident_id, a.accident_date, a.location;  
10. SELECT driver_id, accident_id, damage_amount  
FROM Participated  
WHERE damage_amount = (  
    SELECT MAX(damage_amount) FROM Participated  
);
```