

## DBMS LAB -1

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),

```
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');
```

```
insert into participated (driver_id, reg_num, report_num, damage_amount)
```

```
values ('A01','KA052250','T1','24000'),('A02','KA052350','T2','18000'),('A03','KA059950','T3','30000'),  
('A04','KA052490','T4','10000'),('A05','KA0599650','T5','10001');
```

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,

```
    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  
);
```