**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','11','24000'),('A02','KA052350','12','18000'),('A03','KA059950','13','30000'),('A04','KA052490','14','10000'),('A05','KA0599650','15','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\_damageFROM 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**

**);**