DBMS LAB 1

Consider the Insurance database given below. The primary keys are underlined and the data types are specified.

- **PERSON (driver-id #: String, name: String, address: String)**
- **CAR (Regno: String, model: String, year: int)**
- **ACCIDENT (report-number: int, adate: date, location: String)**
- **OWNS (driver-id #: String, Regno: String)**
- **PARTICIPATED (driver-id: String, Regno: String, report-number: 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 for the car with a specific Regno in the accident with report number 12 to
25000.
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 were involved.

```
CREATE DATABASE Insurance_database;
USE Insurance_database;
SHOW TABLES;

CREATE TABLE PERSON(driver_id VARCHAR(20),dname VARCHAR(20),address
VARCHAR(40),PRIMARY KEY(driver_id));
DESC PERSON;

CREATE TABLE CAR(regno VARCHAR(10),model VARCHAR(10),year INT ,PRIMARY
KEY(regno));
DESC CAR;

CREATE TABLE ACCIDENT(report_no INT,adate date,location
VARCHAR(20),PRIMARY KEY(report_no));
DESC ACCIDENT;
```

```
CREATE TABLE OWNS(driver_id VARCHAR(10),regno VARCHAR(10),PRIMARY
KEY(driver_id,regno),foreign key(driver_id) references PERSON(driver_id) on delete
cascade,foreign key(regno) references CAR(regno) on delete cascade);

CREATE TABLE PARTICIPATED(driver_id VARCHAR(10),regno
VARCHAR(10),report_no INT,damage_amt float, foreign key (driver_id,regno)
references OWNS(driver_id,regno)ON DELETE CASCADE,foreign key (REPORT_NO)
references ACCIDENT(REPORT_NO) ON DELETE CASCADE);
DESC PARTICIPATED;

INSERT INTO PERSON VALUES('11','P1','Add1');
commit;
SELECT* FROM PERSON;
INSERT INTO PERSON VALUES('22','P2','Add2');
INSERT INTO PERSON VALUES('33','P3','Add3');
INSERT INTO PERSON VALUES('44','P4','Add4');
INSERT INTO PERSON VALUES('55','P5','Add5');
commit;

INSERT INTO CAR VALUES('Reg1','Model1', 2000);
INSERT INTO CAR VALUES('Reg2', 'Model2', 2000);
INSERT INTO CAR VALUES('Reg3',' Model3',1999);
INSERT INTO CAR VALUES('Reg4', 'Model1', 2002);
INSERT INTO CAR VALUES('Reg5', 'Model4', 2002);
commit;

SELECT * FROM CAR;

INSERT INTO ACCIDENT VALUES(12,'2002-06-01', 'Loc1');
INSERT INTO ACCIDENT VALUES(200, '2002-12-10', 'Loc2');
INSERT INTO ACCIDENT VALUES(300, '1999-07-23', 'Loc1');
INSERT INTO ACCIDENT VALUES(25000, '2000-06-11', 'Loc3');
INSERT INTO ACCIDENT VALUES(26500, '2001-10-16', 'Loc4');
commit;

SELECT * FROM ACCIDENT;

INSERT INTO OWNS VALUES('11','Reg1');
INSERT INTO OWNS VALUES('11', 'Reg2');
```

```
INSERT INTO OWNS VALUES('22', 'Reg3');
INSERT INTO OWNS VALUES('33', 'Reg4');
INSERT INTO OWNS VALUES('44', 'Reg5');
commit;

SELECT * FROM OWNS;

INSERT INTO PARTICIPATED VALUES('11', 'Reg1', 12 ,20000);
INSERT INTO PARTICIPATED VALUES('22', 'Reg3', 200, 500);
INSERT INTO PARTICIPATED VALUES('33', 'Reg4', 300, 10000);
INSERT INTO PARTICIPATED VALUES('44', 'Reg5', 25000 ,2375);
INSERT INTO PARTICIPATED VALUES('11', 'Reg2', 26500 ,70000);


UPDATE PARTICIPATED SET DAMAGE_AMT=25000 WHERE REPORT_NO =12
AND REGNO='Reg1';
SELECT * FROM PARTICIPATED;


SELECT count(*) FROM ACCIDENT WHERE Adate like '2002--';
SELECT count(A.Report_no) FROM ACCIDENT A, PARTICIPATED  P, CAR C WHERE
A.Report_no=P.Report_no AND P.Regno=C.Regno AND C.Model="Model1";
```