

1. Consider the Insurance database given below.

- **Person**(driver_id:string,name:string,address:string)
 - **Car**(reg_no:string,model:string,year:int)
 - **Accident**(report_no:int,accd_date:date,location:string)
 - **Owns**(driver_id:string,reg_no:string)
 - **Participated**(driver_id:string,reg_no:string,report_no:int,damage_amt:int)
- i) Create the above tables by properly specifying the primary keys and the foreign keys using alter table option.
 - ii) Enter at least five tuples for each relation.
 - iii) Demonstrate how you
 - a.Update the damage amount to 20000 for the car with a specific regno in the accident with report number 12 to 25.
 - b.Add a new accident to the database.
 - iv) Find the total number of people who owned cars that were involved in the accidents in 2012
 - v) Find the number of accidents in which cars belonging to a specific model were involved.

Create the above tables by properly specifying the primary keys and the foreign keys using alter table option.

PERSON(DRIVER_ID:STRING,NAME:STRING,ADDRESS:STRING)

- CREATE TABLE PERSON(DRIVERID VARCHAR(5),NAME VARCHAR(30),ADDRESS VARCHAR(50), PRIMARY KEY(DRIVERID));
- DESC PERSON;

CAR(REG_NO:STRING,MODEL:STRING,YEAR:INT)

- CREATE TABLE CAR(REGNO VARCHAR(5),MODEL VARCHAR(25),YEAR INT, PRIMARY KEY(REGNO));
- DESC CAR;

ACCIDENT(REPORT_NO:INT,ACCD_DATE:DATE,LOCATION:STRING)

- CREATE TABLE ACCIDENT(REPORTNO INT,DATE DATE,LOCATION VARCHAR(30), PRIMARY KEY(REPORTNO));
- DESC ACCIDENT;

OWNS(DRIVER_ID:STRING,REG_NO:STRING)

CREATE TABLE OWNS(DRIVERID VARCHAR(5),REGNO VARCHAR(5), FOREIGN KEY(DRIVERID) REFERENCES PERSON(DRIVERID), FOREIGN KEY(REGNO) REFERENCES CAR(REGNO));
DESC OWNS;

PARTICIPATED(DRIVER_ID:STRING,REG_NO:STRING,REPORT_NO:INT,DAMAGE_AMT:INT)

- CREATE TABLE PARTICIPATED(DRIVERID VARCHAR(5), REGNO VARCHAR(5),REPORTNO INT,DAMAGES INT, FOREIGN KEY(DRIVERID) REFERENCES PERSON(DRIVERID), FOREIGN KEY(REGNO) REFERENCES CAR(REGNO), FOREIGN KEY(REPORTNO) REFERENCES ACCIDENT(REPORTNO));

- DESC PARTICIPATED;

Enter at least five tuples for each relation:-

PERSON:

```
INSERT INTO PERSON VALUES(1,'RAJ','MANGALORE');
INSERT INTO PERSON VALUES(2,'RAHUL','BANGALORE');
INSERT INTO PERSON VALUES(3,'PAVAN','BANGALORE');
INSERT INTO PERSON VALUES(4,'PRAVEEN','UDUPI');
INSERT INTO PERSON VALUES(5,'PREETHAM','MYSORE');
INSERT INTO PERSON VALUES(6,'PREETHU','TUMKUR');
INSERT INTO PERSON VALUES(7,'RAKESH','TUMKUR');
```

CAR:

```
INSERT INTO CAR VALUES(1023,'PORSCHE',2011);
INSERT INTO CAR VALUES(1024,'PORSCHE',2011);
INSERT INTO CAR VALUES(1025,'MERC',2012);
INSERT INTO CAR VALUES(1026,'SWIFT',2011);
INSERT INTO CAR VALUES(1027,'BRIO',2012);
INSERT INTO CAR VALUES(1028,'FERRARI',2012);
INSERT INTO CAR VALUES(1029,'HUNTER',2012);
```

ACCIDENT:

```
INSERT INTO ACCIDENT VALUES(1,20120101,'2012');
INSERT INTO ACCIDENT VALUES(2,20120328,'2012');
INSERT INTO ACCIDENT VALUES(3, 20090118 ,'2013');
INSERT INTO ACCIDENT VALUES(4, 20040117,'2010');
INSERT INTO ACCIDENT VALUES(5, 20060116,'2011');
INSERT INTO ACCIDENT VALUES(15,20090328,'2014')
```

OWNS:

```
INSERT INTO OWNS VALUES(2,'1023');
INSERT INTO OWNS VALUES(3,'1025');
INSERT INTO OWNS VALUES(6,'1026');
INSERT INTO OWNS VALUES(7,'1027');
INSERT INTO OWNS VALUES(5,'1029');
```

PARTICIPATED:

```
INSERT INTO PARTICIPATED VALUES(2,'1023','2','20000');
INSERT INTO PARTICIPATED VALUES(3,'1025','3','20000');
INSERT INTO PARTICIPATED VALUES(6,'1026','4','20000');
INSERT INTO PARTICIPATED VALUES(7,'1027','5','30000');
INSERT INTO PARTICIPATED VALUES(5,'1029','1','30000');
```

Demonstrate how you

- Update the damage amount to 20000 for the car with a specific regno in the accident with report number 12 to 25.**
- Add a new accident to the database.**

Update the damage amount to 20000 for the car with a specific regno in the accident with report number 12 to 25.

```
UPDATE PARTICIPATED SET DAMAGES='20000'
```

```
WHERE REPORTNO BETWEEN 12 AND 25 AND REGNO='1027';
```

Add a new accident to the database.

```
INSERT INTO ACCIDENT VALUES(11,20090101,'2012');
```

Find the total no of people who owned cars that were involved in accident in 2012

```
SELECT COUNT(*)
```

```
FROM ACCIDENT A,PARTICIPATED P
```

```
WHERE A.REPORTNO=P.REPORTNO AND DATE1
```

```
BETWEEN 20120101 AND 20121231 ;
```

Find the number of accidents in which cars belonging to a specific model were involved.

```
SELECT COUNT(*)
```

```
FROM CAR C,PARTICIPATED P
```

```
WHERE C.MODEL='PORSCHÉ' AND C.REGNO=P.REGNO;
```