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#### **DBMS LAB-1**

## PROGRAM 1: INSURANCE DATABASE

# **QUESTION:**

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.

#### PROGRAM CODE:

create database Insurance;

use Insurance;

CREATE TABLE PERSON(DRIVER\_ID VARCHAR(10), NAME VARCHAR(20), ADDRESS VARCHAR(15), PRIMARY KEY(DRIVER\_ID));

show tables;

desc PERSON;

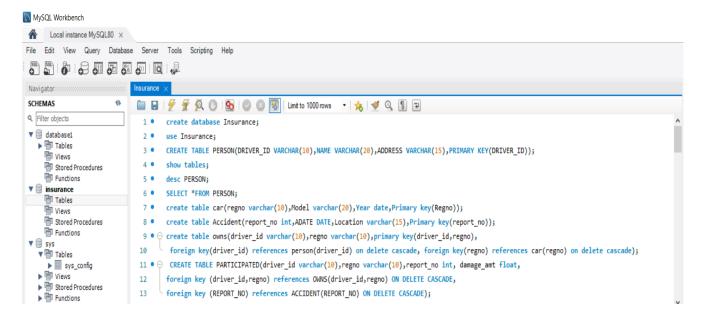
SELECT \*FROM PERSON;

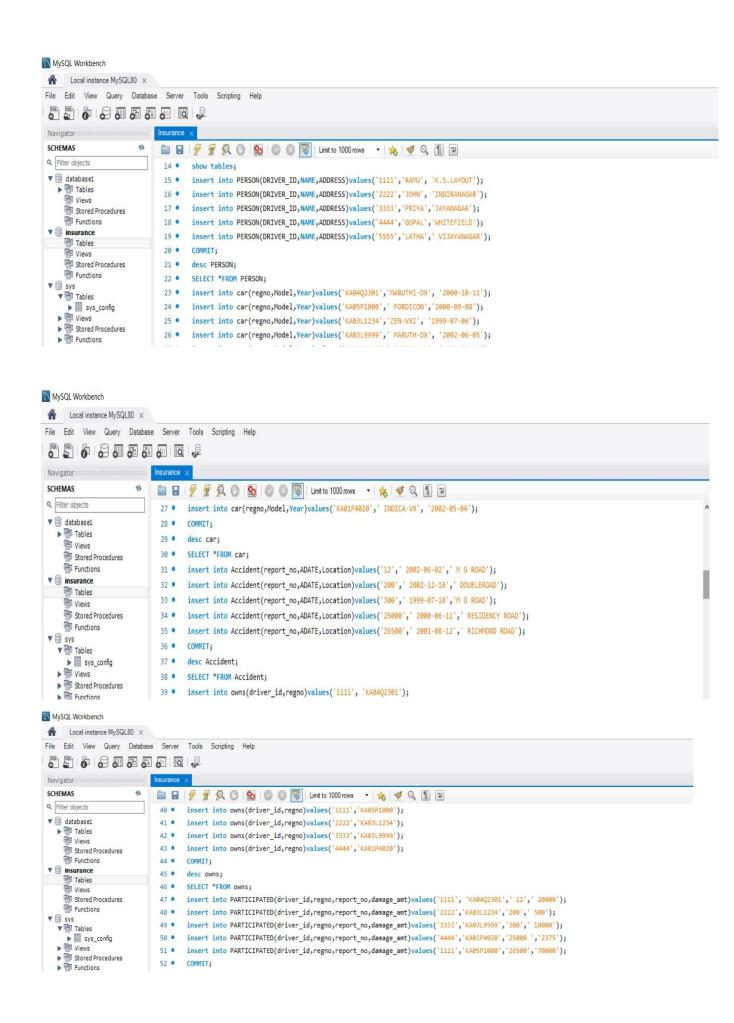
```
create table car(regno varchar(10), Model varchar(20), Year date, Primary key(Regno));
create table Accident(report_no int,ADATE DATE,Location varchar(15),Primary key(report_no));
create table owns(driver_id varchar(10),regno varchar(10),primary key(driver_id,regno),
foreign key(driver_id) references 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);
show tables;
insert into PERSON(DRIVER_ID,NAME,ADDRESS)values('1111','RAMU', 'K.S.LAYOUT');
insert into PERSON(DRIVER_ID,NAME,ADDRESS)values('2222','JOHN', 'INDIRANAGAR');
insert into PERSON(DRIVER_ID, NAME, ADDRESS) values ('3333', 'PRIYA', 'JAYANAGAR');
insert into PERSON(DRIVER_ID,NAME,ADDRESS)values('4444','GOPAL','WHITEFIELD');
insert into PERSON(DRIVER ID, NAME, ADDRESS) values ('5555', 'LATHA', 'VIJAYANAGAR');
COMMIT;
desc PERSON;
SELECT *FROM PERSON;
insert into car(regno, Model, Year) values ('KAO4Q2301', 'MARUTHI-DX', '2000-10-11');
insert into car(regno, Model, Year) values ('KA05P1000', 'FORDICON', '2000-09-08');
insert into car(regno, Model, Year) values ('KAO3L1234', 'ZEN-VXI', '1999-07-06');
insert into car(regno, Model, Year) values ('KAO3L9999', 'MARUTH-DX', '2002-06-05');
insert into car(regno, Model, Year) values ('KAO1P4O2O', 'INDICA-VX', '2002-05-04');
COMMIT;
desc car;
SELECT *FROM car;
insert into Accident(report_no,ADATE,Location)values('12',' 2002-06-02',' M G ROAD');
insert into Accident(report_no,ADATE,Location)values('200',' 2002-12-10',' DOUBLEROAD');
insert into Accident(report_no,ADATE,Location)values('300',' 1999-07-10','M G ROAD');
insert into Accident(report_no,ADATE,Location)values('25000',' 2000-06-11',' RESIDENCY ROAD');
insert into Accident(report_no,ADATE,Location)values('26500',' 2001-08-12',' RICHMOND ROAD');
COMMIT;
```

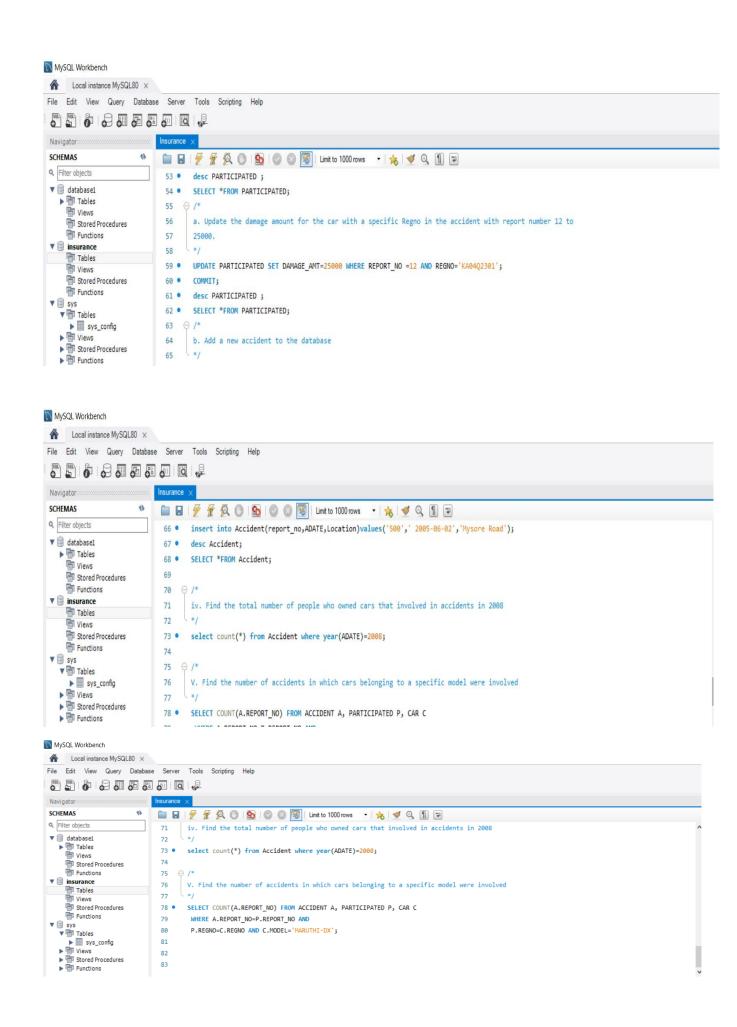
```
desc Accident;
SELECT *FROM Accident;
insert into owns(driver_id,regno)values('1111', 'KA04Q2301');
insert into owns(driver_id,regno)values('1111','KA05P1000');
insert into owns(driver_id,regno)values('2222','KA03L1234');
insert into owns(driver_id,regno)values('3333','KA03L9999');
insert into owns(driver_id,regno)values('4444','KA01P4020');
COMMIT;
desc owns;
SELECT *FROM owns;
insert into PARTICIPATED(driver_id,regno,report_no,damage_amt)values('1111', 'KA04Q2301',' 12','
20000');
insert into PARTICIPATED(driver_id,regno,report_no,damage_amt)values('2222','KA03L1234','200','
500');
insert into PARTICIPATED(driver id,regno,report no,damage amt)values('3333','KA03L9999','300','
10000');
insert into PARTICIPATED(driver_id,regno,report_no,damage_amt)values('4444','KA01P4020','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','25000','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','2500','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','250','2
','2375');
insert into
PARTICIPATED(driver id,regno,report no,damage amt)values('1111','KA05P1000','26500','70000');
COMMIT;
desc PARTICIPATED;
SELECT *FROM PARTICIPATED;
a. Update the damage amount for the car with a specific Regno in the accident with report number
12 to
25000.
*/
UPDATE PARTICIPATED SET DAMAGE_AMT=25000 WHERE REPORT_NO =12 AND
REGNO='KA04Q2301';
COMMIT;
desc PARTICIPATED;
SELECT *FROM PARTICIPATED;
```

```
/*
b. Add a new accident to the database
*/
insert into Accident(report_no,ADATE,Location)values('500',' 2005-06-02','Mysore Road');
desc Accident;
SELECT *FROM Accident;
/*
iv. Find the total number of people who owned cars that involved in accidents in 2008
*/
select count(*) from Accident where year(ADATE)=2008;
/*
V. Find the number of accidents in which cars belonging to a specific model were involved
*/
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='MARUTHI-DX';
```

## **SCREENSHOTS OF THE PROGRAM**:







#### **SCREENSHOTS OF OUTPUT:**

