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DBMS LAB PROGRAM – 1 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.

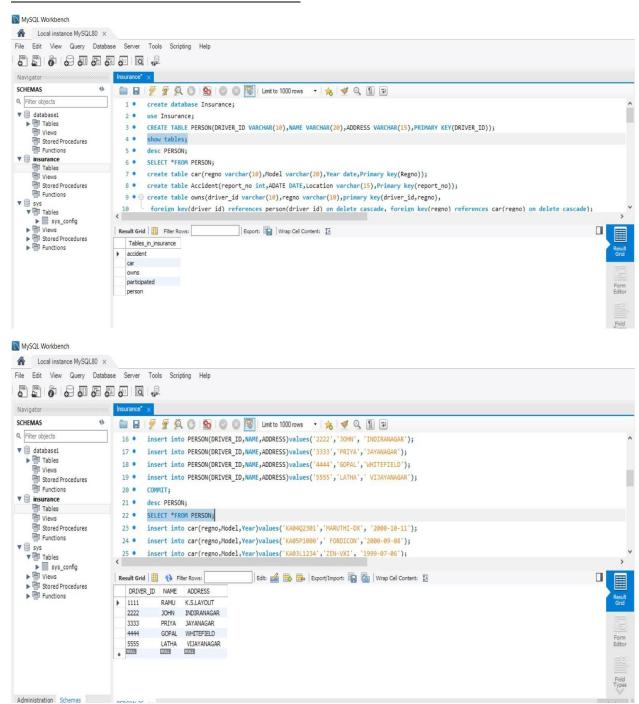
PROGRAM CODE:

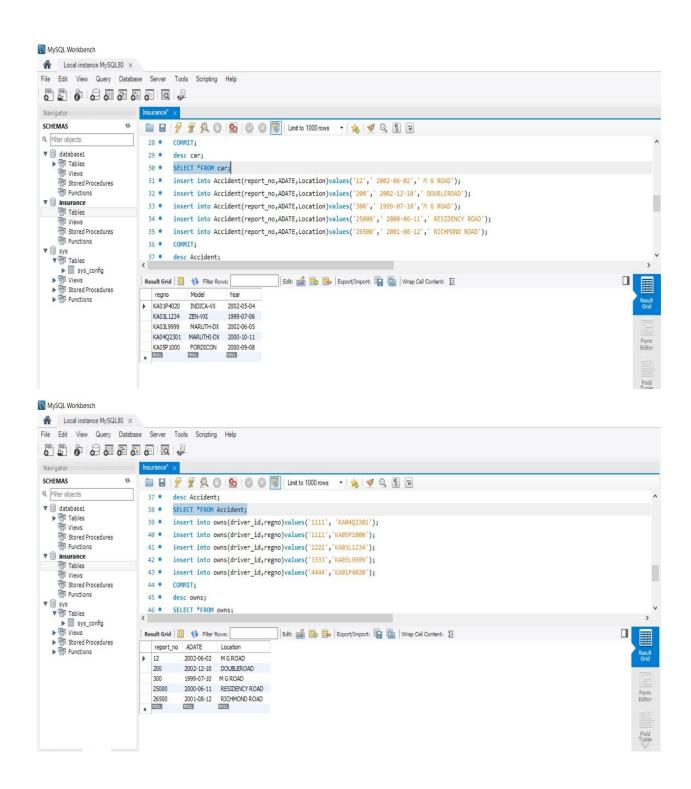
```
create database Insurance;
use Insurance;
CREATE TABLE PERSON(DRIVER_ID VARCHAR(10), NAME VARCHAR(20), ADDRESS
VARCHAR(15), PRIMARY KEY(DRIVER_ID));
show tables;
desc PERSON;
SELECT *FROM PERSON;
create table car(regno varchar(10), Model varchar(20), Year date, Primary key(Regno));
create table Accident(report_no 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,
```

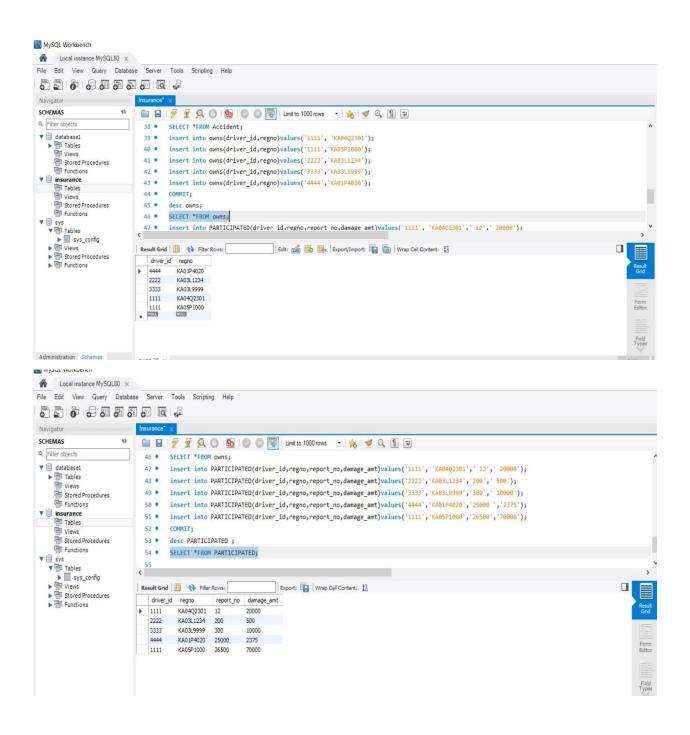
```
foreign key (REPORT_NO) references ACCIDENT(REPORT_NO) ON DELETE CASCADE);
show tables;
insert into PERSON(DRIVER_ID, NAME, ADDRESS) values('1111', 'RAMU', 'K.S.LAYOUT');
insert into PERSON(DRIVER_ID, NAME, ADDRESS) values('2222', 'JOHN', 'INDIRANAGAR');
insert into PERSON(DRIVER_ID,NAME,ADDRESS)values('3333','PRIYA','JAYANAGAR');
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('KA04Q2301','MARUTHI-DX', '2000-10-11');
insert into car(regno, Model, Year) values('KA05P1000',' FORDICON', '2000-09-08');
insert into car(regno,Model,Year)values('KA03L1234','ZEN-VXI', '1999-07-06');
insert into car(regno,Model,Year)values('KA03L9999',' MARUTH-DX', '2002-06-05');
insert into car(regno,Model,Year)values('KA01P4020',' 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', '
```

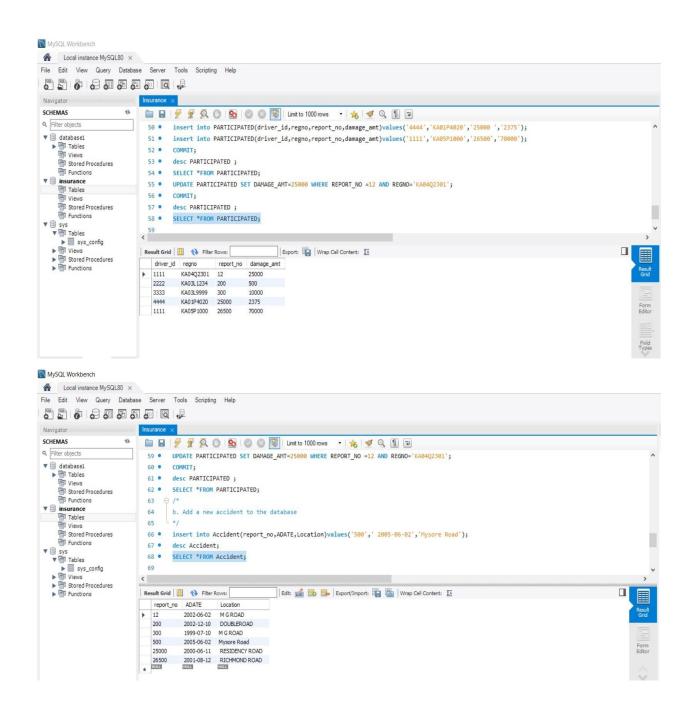
```
500');
insert into
PARTICIPATED(driver_id,regno,report_no,damage_amt)values('3333','KA03L9999','300','
10000');
insert into
PARTICIPATED(driver_id, regno, report_no, damage_amt)values('4444', 'KA01P4020', '25000
','2375');
insert into
PARTICIPATED(driver_id, regno, report_no, damage_amt)values('1111', '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';
```

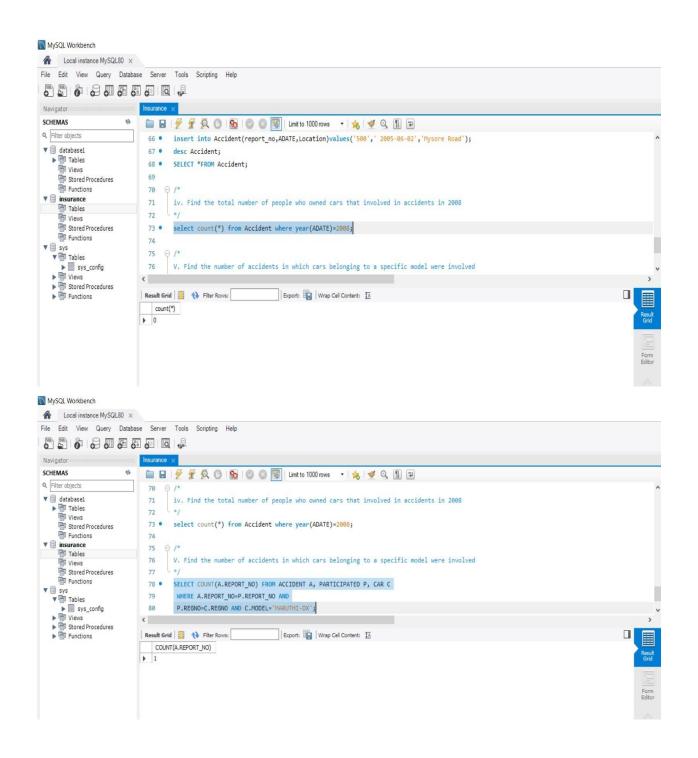
SCREENSHOTS OF THE PROGRAM OUTPUT:











** END OF WEEK1 PROGRAM **