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1BM20CS400

CSE-4A

PROGRAM 1: INSURANCE DATABASE

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)

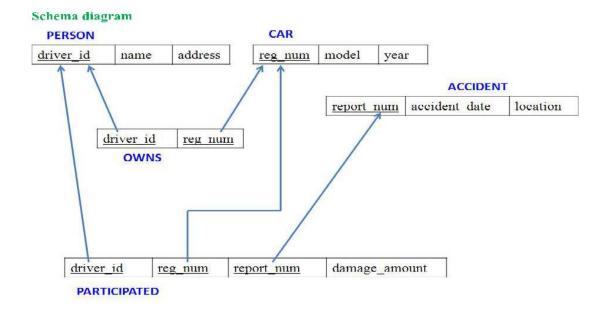
CAR (Regno: String, model: String, year: int)

ACCIDENT (report-number: int, date: 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



1. Create the above tables by properly specifying the primary keys and the foreign keys.

```
CREATE DATABASE Insurance;
USE Insurance;
CREATE TABLE PERSON (
DRIVER_ID VARCHAR(15),
NAME VARCHAR(30) NOT NULL,
ADDRESS VARCHAR(30),
PRIMARY KEY(DRIVER_ID)
);
CREATE TABLE CAR(
REG_NUM VARCHAR(15),
MODEL VARCHAR(15),
YEAR INT,
PRIMARY KEY (REG_NUM)
);
CREATE TABLE ACCIDENT(
REPORT_NUM INT,
ACCIDENT_DATE DATE,
LOCATION VARCHAR(30),
PRIMARY KEY (REPORT_NUM)
);
CREATE TABLE OWNS(
DRIVER_ID VARCHAR(15),
REG_NUM VARCHAR(15),
FOREIGN KEY (DRIVER_ID) REFERENCES PERSON(DRIVER_ID),
FOREIGN KEY (REG_NUM) REFERENCES CAR(REG_NUM)
);
```

CREATE TABLE PARTICIPATED(

DRIVER_ID VARCHAR(15),

REG_NUM VARCHAR(15),

REPORT_NUM INT,

DAMAGE_AMOUNT INT,

FOREIGN KEY (DRIVER_ID) REFERENCES PERSON(DRIVER_ID),

FOREIGN KEY (REG_NUM) REFERENCES CAR(REG_NUM),

 $FOREIGN\;KEY\;(REPORT_NUM)\;REFERENCES\;ACCIDENT(REPORT_NUM)$

);

2. Enter at least five tuples for each relation.

INSERT INTO PERSON

VALUES("A01", "Richard", "Srinivas Nagar"), ("A02", "Pradeep", "Rajaji Nagar"),

("A03", "Smith", "Ashok Nagar"), ("A04", "Venu", "N R Colony"), ("A05", "Jhon", "Hanumanth Nagar");

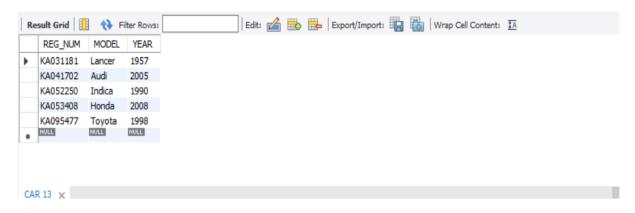
SELECT * FROM PERSON;



INSERT INTO CAR

VALUES("KA052250","Indica",1990),("KA031181","Lancer",1957),("KA095477","Toyota",1998), ("KA053408","Honda",2008),("KA041702","Audi",2005);

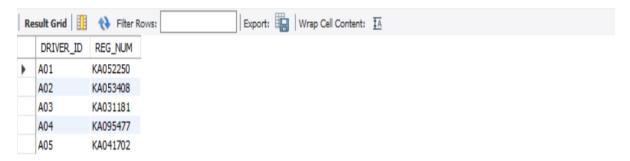
SELECT * FROM CAR;



INSERT INTO OWNS

VALUES("A01","KA052250"),("A02","KA053408"),("A03","KA031181"),("A04","KA095477"),("A05","KA041702");

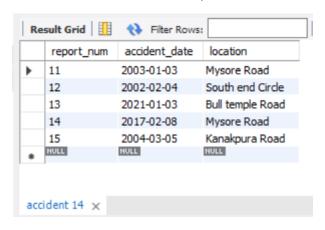
SELECT * FROM OWNS:



INSERT INTO ACCIDENT

VALUES(11,'2003-01-01',"Mysore Road"),(12,'2004-02-02',"South end Circle"),(13,'2003-01-21',"Bull Temple Road"),(14,'2008-02-17',"Mysore Road"),(15,'2005-03-04',"Kanakpura Road");

SELECT * FROM ACCIDENT;



INSERT INTO PARTICIPATED VALUES

("A01","KA052250",11,10000),("A02","KA053408",12,50000),("A03","KA031181",13,25000),("A04","KA095477",14,3000),

("A05", "KA041702", 15,5000);

SELECT * FROM PARTICIPATED;

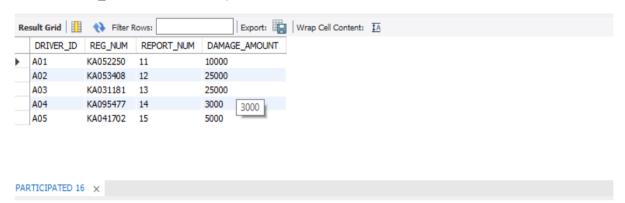
	DRIVER_ID	REG_NUM	REPORT_NUM	DAMAGE_AMOUNT
•	A01	KA052250	11	10000
	A02	KA053408	12	50000
	A03	KA031181	13	25000
	A04	KA095477	14	3000
	A05	KA041702	15	5000
PARTICIPATED 3 ×				

a) Update the damage amount to 25000 for the car with a specific reg-num (example 'KA053408') for which the accident report number was 12.

UPDATE PARTICIPATED

SET DAMAGE_AMOUNT=25000

WHERE REG_NUM="KA053408";

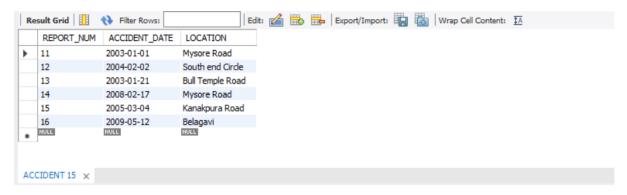


b) Add a new accident to the database.

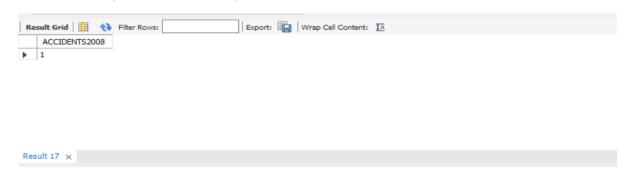
INSERT INTO ACCIDENT

VALUES (16,"2009-05-12","Belagavi");

SELECT * FROM ACCIDENT;



SELECT COUNT(ACCIDENT_DATE) AS ACCIDENTS2008 FROM ACCIDENT WHERE YEAR(ACCIDENT_DATE)=2008;



SELECT COUNT(MODEL) AS INDICA FROM car

WHERE MODEL="Indica";

