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Subject-DBMS

PROGRAM 1: INSURANCE DATABASE Consider the Insurance database given below. The data types are specified. PERSON (driver\_id: String, name: String, address: String) CAR (reg\_num: String, model: String, year: int) ACCIDENT (report\_num: int, accident\_date: date, location: String) OWNS (driver\_id: String, reg\_num: String) PARTICIPATED (driver\_id: String,reg\_num: String, report\_num: int, damage\_amount: int) i) Create the above tables by properly specifying the primary keys and the foreign key ii) Enter at least five tuples for each relation. iii) Demonstrate how you a.Update the damage amount to 25000 for the car with a specific regnum(example 'K A053408') for which the accident report number was 12. 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 (example )were involved.

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| create database INSURANCE; |
|  | create table INSURANCE.person( |
|  | driver\_id varchar(10), |
|  | name varchar(20), |
|  | address varchar(30), |
|  | primary key(driver\_id) |
|  | ); |
|  | create table INSURANCE.car( |
|  | reg\_num varchar(10), |
|  | model varchar(10), |
|  | year int, |
|  | primary key(reg\_num) |
|  | ); |
|  | create table INSURANCE.accident( |
|  | report\_num int, |
|  | accident\_date date, |
|  | location varchar(20), |
|  | primary key(report\_num) |
|  | ); |
|  | create table INSURANCE.owns( |
|  | driver\_id varchar(10), |
|  | reg\_num varchar(10), |
|  | primary key(driver\_id,reg\_num), |
|  | foreign key(driver\_id) references person(driver\_id), |
|  | foreign key(reg\_num) references car(reg\_num) |
|  | ); |
|  | create table INSURANCE.participated( |
|  | driver\_id varchar(10), |
|  | reg\_num varchar(10), |
|  | report\_num int, |
|  | damage\_amount int, |
|  | primary key(driver\_id,reg\_num,report\_num), |
|  | foreign key(driver\_id) references person(driver\_id), |
|  | foreign key(reg\_num) references car(reg\_num), |
|  | foreign key(report\_num) references accident(report\_num) |
|  | ); |
|  | use INSURANCE; |
|  | insert into person values('A01','Richard','Srinivas Nagar'); |
|  | insert into person values('A02','Pradeep','Rajajinagar'); |
|  | insert into person values('A03','Smith','Ashoknagar'); |
|  | insert into person values('A04','Venu','N.R.Colony'); |
|  | insert into person values('A05','John','Hanumanth Nagar'); |
|  | select \* from person; |
|  |  |
|  | insert into car values('KA052250','Indica', 1990); |
|  | insert into car values('KA031181','Lancer', 1957); |
|  | insert into car values('KA095477','Toyota', 1998); |
|  | insert into car values('KA053408','Honda', 2008); |
|  | insert into car values('KA041702','Audi', 2005); |
|  | select \* from car; |
|  |  |
|  | insert into accident values(11,'2001-01-03','Mysore Road'); |
|  | insert into accident values(12,'2002-01-04','Southend Circle'); |
|  | insert into accident values(13,'2021-01-03','Bulltemple Road'); |
|  | insert into accident values(14,'2017-02-08','Mysore Road'); |
|  | insert into accident values(15,'2008-03-05 ','Kanakpura Road'); |
|  | select \* from accident; |
|  |  |
|  | insert into owns values('A01','KA052250'); |
|  | insert into owns values('A02','KA053408'); |
|  | insert into owns values('A03','KA031181'); |
|  | insert into owns values('A04','KA095477'); |
|  | insert into owns values('A05','KA041702'); |
|  | select \* from owns; |
|  |  |
|  | insert into participated values('A01','KA052250',11,10000); |
|  | insert into participated values('A02','KA053408',12,50000); |
|  | insert into participated values('A03','KA095477',13,25000); |
|  | insert into participated values('A04','KA031181',14,3000); |
|  | insert into participated values('A05','KA041702',15,5000); |
|  | select \* from participated; |
|  | use INSURANCE; |
|  | UPDATE participated |
|  | SET damage\_amount=25000 |
|  | WHERE report\_num=12; |
|  |  |
|  | insert into accident values('16','2009-04-05','Mysore Road'); |
|  | select \* from accident; |
|  | use INSURANCE; |
|  | SELECT COUNT(DISTINCT driver\_id) FROM accident, participated |
|  | WHERE accident.report\_num = participated.report\_num |
|  | AND accident\_date LIKE '2008%' |
|  |  |
|  | use INSURANCE; |
|  | SELECT COUNT(report\_num) FROM car, participated |
|  | WHERE car.reg\_num = participated.reg\_num |
|  | AND model='Lancer'; |

Output