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IBM18CS098

(1) create table person(driver_id varchar(10),
                        name varchar(20),
                        address varchar(30),
                        primary key (driver_id));

> desc person
> create table car (reg_num varchar(10), model
    varchar(10), year int, primary key (reg_num));
> desc car

> create table accident (report_num int, accident_date,
    date, location varchar(20), primary key (report_num)

> desc accident

> create table owns (driver_id varchar(10), reg_num
    varchar(10), primary key (driver_id, reg_num)
    foreign key (driver_id) reference person (driver_
    id), foreign key(reg_num) references car
    (reg_num));

> desc owns

> create table 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))

> desc participated .

(i) > insert into person values ('&driver_id', '&name', '&address');
> commit;
> select * from person;
> insert into car values ('& reg_num', '& model', & year);
> commit
> select * from car;
> insert into accident values(& report_num, '& accident_date', &location');
> commit;
> select *from accident;
> insert into own values ('&driver_id', '&reg_num');
> commit;
> select * from owns;
> insert into participated values('&driver id', '& reg_num', & report num, &damage_amount);
> commit;
> select * from participated;

(ii) > insert into accident values (16, '15-Jun-20', 'Domlur');
> select * from accident

What is Cardinality?

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It is how one table relates to another.

eg → 1-1 , 1-Many, Many-Many

Cardinality also refers to the data in a column of a table, specifically how many unique values are in it.

What is participation constraint?

Participation constraint specifies the presence of an entity when it is related to another entity in a relationship type. It is also called the minimum cardinality constraint. This constraint specifies the no. of instances of an entity that are participating in the relationship type.

What is a View?

Views in SQL are a kind of virtual tables. A view also has rows & columns as they are in a real table in the database. We can create a view by selecting fields from one or more tables present in the database. A view can either have all the rows of a table or specific rows based on certain conditions.

Que. what is a trigger?

A trigger is a special type of stored procedure that automatically runs when an event occurs in the database server. DML triggers run when a user tries to modify data through a data manipulation lang. (DML) event. DML events are insert, update, or delete statements on a table or view.

<iv> select * from participated order by damage_amount desc;

<v> select avg (damage_amount) from participated;

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Schema Diagram

PERSON

driver-id	name	address

CAR

reg-num	model	year

ACCIDENT

report-num	accident date	location

driver-id	reg-name

OWNS

driver-id	reg-num	report-num	damage-amount

PARTICIPATED