# REALTIONAL DATABASE MANAGEMENT SYSTEM

# (MINI \_PROJECT)

# HOSPITAL MANAGEMENT

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SE \_ COMPS A

STAFF :

CREATE TABLE Staff (

Staff\_id INT,

Fname VARCHAR(30) NOT NULL,

Mname VARCHAR(30) NOT NULL,

Lname VARCHAR(30) NOT NULL,

Salary INT NOT NULL,

DOB DATE,

Address VARCHAR(40),

Shifts INT,

Join\_date DATE,

PRIMARY KEY (Staff\_id)

);



PATIENT:

CREATE TABLE Patient (

PID INT,

Pfname VARCHAR(25),

Pmname VARCHAR(25),

Plname VARCHAR(25),

Doc\_incharge VARCHAR(20),

DOB DATE,

admit\_date DATE,

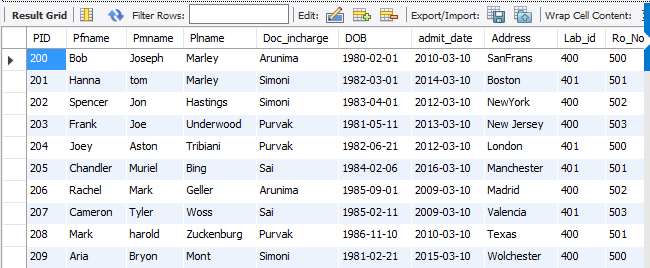
Address VARCHAR(40),

Lab\_id INT,

Ro\_No INT,

PRIMARY KEY (PID)

);



MEDICINE

CREATE TABLE Medicine (

Med\_name VARCHAR(25) UNIQUE,

DOE DATE,

DOM DATE,

Doc\_id INT,

Pat\_id INT,

PRIMARY KEY (Med\_name),

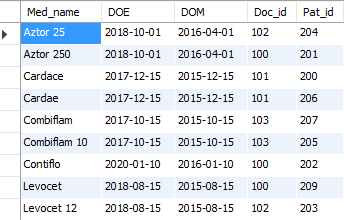
FOREIGN KEY (Doc\_id)

REFERENCES Doctor (Staff\_id),

FOREIGN KEY (Pat\_id)

REFERENCES Patient (PID)

);



DOCTOR :

CREATE TABLE Doctor (

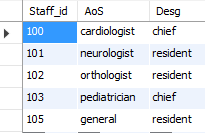
Staff\_id INT,

AoS VARCHAR(20),

Desg VARCHAR(20),

PRIMARY KEY (Staff\_id)

);



RECEPTIONIST

CREATE TABLE Receptionist (

Staff\_id INT,

PRIMARY KEY (Staff\_id)

);

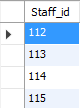


ACCOUNTANT :

CREATE TABLE Accountant (

Staff\_id INT PRIMARY KEY

);



ROOM :

CREATE TABLE ROOM (

Room\_no INT,

Room\_incharge VARCHAR(25),

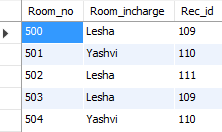
Rec\_id INT,

PRIMARY KEY (Room\_no),

FOREIGN KEY (Rec\_id)

REFERENCES Receptionist (Staff\_id)

);



RECORD :

CREATE TABLE Record (

Record\_No INT,

Rec\_of\_pat INT,

DOF DATE,

Re\_id INT,

PRIMARY KEY (Record\_No),

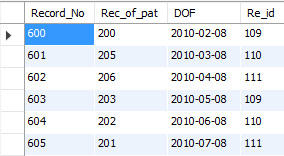
FOREIGN KEY (Re\_id)

REFERENCES Receptionist (Staff\_id),

FOREIGN KEY (Rec\_of\_pat)

REFERENCES Patient (PID)

);



TREATS :

CREATE TABLE Treats (

PID INT,

Staff\_id INT,

PRIMARY KEY (PID , Staff\_id),

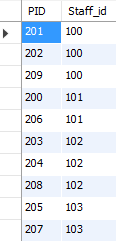
FOREIGN KEY (PID)

REFERENCES Patient (PID),

FOREIGN KEY (Staff\_id)

REFERENCES Doctor (Staff\_id)

);



TRANSACTIONS :

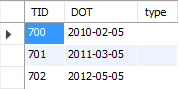
CREATE TABLE transactions (

TID INT PRIMARY KEY,

DOT DATE,

type VARCHAR(20)

);



HANDLES :

CREATE TABLE Handles (

Staff\_id INT,

TID INT,

PRIMARY KEY (Staff\_id , TID),

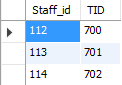
FOREIGN KEY (Staff\_id)

REFERENCES Accountant (Staff\_id),

FOREIGN KEY (TID)

REFERENCES Transactions (TID)

);



LABORTORIST :

CREATE TABLE Laboratorist (

Staff\_id INT,

PRIMARY KEY (Staff\_id),

FOREIGN KEY (Staff\_id)

REFERENCES Staff (Staff\_id)

);



Laboratory :

CREATE TABLE Laboratory (

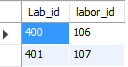
Lab\_id INT PRIMARY KEY,

labor\_id INT,

FOREIGN KEY (labor\_id)

REFERENCES Laboratorist (Staff\_id)

);



Nurse :

CREATE TABLE Nurse (

Staff\_id INT,

Room\_n INT,

PRIMARY KEY (Staff\_id),

FOREIGN KEY (Staff\_id)

REFERENCES Staff (Staff\_id)

);



P\_phoneno:

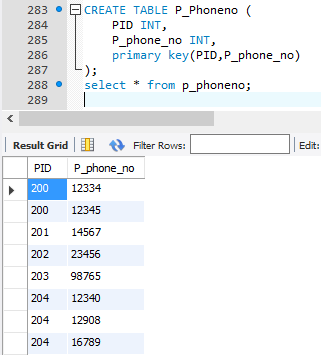
CREATE TABLE P\_Phoneno (

PID INT,

P\_phone\_no INT,

primary key(PID,P\_phone\_no)

);



S\_phone\_no :

CREATE TABLE S\_Phone\_N0 (

Staff\_id INT,

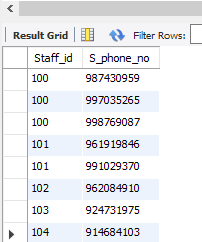
S\_phone\_no INT,

PRIMARY KEY (S\_phone\_no,Staff\_id),

FOREIGN KEY (Staff\_id)

REFERENCES Staff (Staff\_id)

);



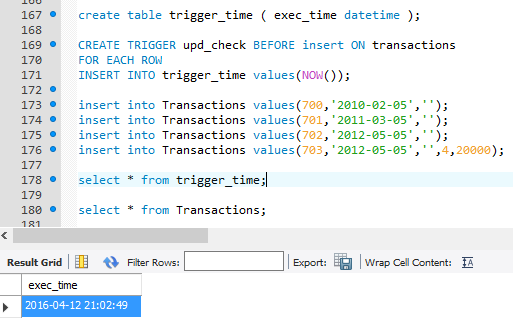
TRIGGERS:

1 .

CREATE TRIGGER upd\_check BEFORE insert ON transactions

FOR EACH ROW

INSERT INTO trigger\_time values(NOW());



2 .

DELIMITER $$

CREATE TRIGGER before\_staff\_update

BEFORE UPDATE ON staff

FOR EACH ROW

BEGIN

INSERT INTO staff\_audit

SET action = 'update',

staff\_id = OLD.staff\_id,

fname = OLD.fname,

changedat = NOW();

END$$

DELIMITER ;

DELIMITER $$

CREATE PROCEDURE sp8 (x VARCHAR(10))

BEGIN

declare varaccno int default 701;

DECLARE vartamt int default 1500;

DEclare varcurrbal int;

START TRANSACTION ;

savepoint withd;

update Transactions set currbal = currbal + vartamt

where tid = varaccno;

select currbal into varcurrbal from transactions where tid = varaccno;

if varcurrbal > 500000 then

rollback to savepoint withd;

else

commit;

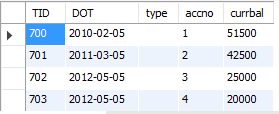
end if;

END;

$$

DELIMITER ;

call sp8('trans');



QUERIES:

