

**Vezeeta**

**TA. Nagwa Mostafa**

Software Engineering – Team 3

**منة الله عماد عبد السميع محمود شهاب الدين 20201701656**

**عمر عماد الدين انور متولي جبال 20201701635**

**مريم خالد احمد محمد صبحي 20201701653**

**مارتينا أشرف شوقى عوض 20201701641**

**عمر جمال عبد المجيد عبد الجواد 20201701634**

**هنا طارق محمود احمد السيد20201701663**

**مريم عماد رشدي حبشي إسحق 20201701654**

CREATE TABLE Patient(

pat\_id NUMBER PRIMARY KEY,

name VARCHAR2(30) NOT NULL,

email VARCHAR2(50) NOT NULL UNIQUE,

password VARCHAR2(50) NOT NULL

);

CREATE TABLE Doctor(

dr\_id NUMBER PRIMARY KEY,

name VARCHAR2(20) NOT NULL,

email VARCHAR2(50) NOT NULL UNIQUE,

password VARCHAR2(50) NOT NULL,

speciality VARCHAR2(30) NOT NULL,

startTime TIMESTAMP NOT NULL,

endTime TIMESTAMP NOT NULL,

apptdur NUMBER(2) NOT NULL,

apptfee Number(4) NOT NULL

);

CREATE TABLE TimeSlot(

time TIMESTAMP NOT NULL,

dr\_id NUMBER NOT NULL,

isAvailable CHAR(1) DEFAULT 'Y' NOT NULL,

CONSTRAINT DoctorSchedule\_pk PRIMARY KEY(dr\_id, time),

CONSTRAINT Doctor\_fk FOREIGN KEY (dr\_id) REFERENCES Doctor (dr\_id) ON DELETE CASCADE

);

CREATE TABLE Appointment(

id NUMBER PRIMARY KEY,

time TIMESTAMP NOT NULL,

dr\_id NUMBER NOT NULL,

pat\_id NUMBER NOT NULL,

CONSTRAINT Patient\_fk FOREIGN KEY (pat\_id) REFERENCES Patient (pat\_id) ON DELETE CASCADE,

CONSTRAINT TimeSlot\_fk FOREIGN KEY ( time, dr\_id) REFERENCES TimeSlot (time, dr\_id) ON DELETE CASCADE

);

INSERT INTO Doctor (dr\_id, name, email, password, speciality, startTime, endTime, apptdur)

VALUES (1, 'Corey Ellison', 'corey\_ellison@hotmail.com', 'poppsy123', 'Dermatology', trunc(sysdate)+19/24,trunc(sysdate)+22/24, 30, 250);

INSERT INTO Doctor (dr\_id, name, email, password, speciality, startTime, endTime, apptdur)

VALUES (2, 'Vicki Hall', 'vicks@gmail.com', '17jun2002xyz', 'Ophthalmology', trunc(sysdate)+15/24,trunc(sysdate)+17.5/24, 45,300);

INSERT INTO Doctor (dr\_id, name, email, password, speciality, startTime, endTime, apptdur)

VALUES (3, 'Rosemarie Moody', 'drrosa@hotmail.com', 'hannaRomana', 'Pediatrics', trunc(sysdate)+10/24,trunc(sysdate)+13/24, 25,600);

INSERT INTO Doctor (dr\_id, name, email, password, speciality, startTime, endTime, apptdur)

VALUES (4, 'Johnathan Edmonds', 'johnathanedmonds275@gmail.com', 'Xyjs63#$hsl\_g$&', 'Dermatology', trunc(sysdate)+16/24,trunc(sysdate)+20/24, 30,200);

INSERT INTO Doctor (dr\_id, name, email, password, speciality, startTime, endTime, apptdur)

VALUES (5, 'Emer Robbins', 'emer@gmail.com', 'cobrahollish245', 'Ophthalmology', trunc(sysdate)+15/24,trunc(sysdate)+17.5/24, 35,300);

INSERT INTO Doctor (dr\_id, name, email, password, speciality, startTime, endTime, apptdur)

VALUES (6, 'Amal Berg', 'ammalBerg255@hotmail.com', '0125815458xyyy', 'Psychology', trunc(sysdate)+16/24,trunc(sysdate)+23/24, 90,400);

INSERT INTO Doctor (dr\_id, name, email, password, speciality, startTime, endTime, apptdur)

VALUES (7, 'Elwood Grimes', 'drel@gmail.com', 'h\_hsy3FDG%$%', 'Internal Medicine', trunc(sysdate)+18/24,trunc(sysdate)+20/24, 30,220);

INSERT INTO Patient (pat\_id, name, email, password)

VALUES (1, 'Minnie Wagstaff', 'minnie@gmail.com', '1234567');

INSERT INTO Patient (pat\_id, name, email, password)

VALUES (2, 'Sumaya Andrade', 'littleangel@gmail.com', 'z9p4ppuc');

INSERT INTO Patient (pat\_id, name, email, password)

VALUES (3, 'Amiee Cox', 'aimeecoxx@gmail.com', 'mydoggie');

INSERT INTO Patient (pat\_id, name, email, password)

VALUES (4, 'Conan Day', 'darkknight@yahoo.com', 'canounnrollo');

INSERT INTO Patient (pat\_id, name, email, password)

VALUES (5, 'Kamil Holman', 'kamil\_holman\_1995@hotmail.com', '15031999');

INSERT INTO Patient (pat\_id, name, email, password)

VALUES (6, 'Lauren Christian', 'eng.lauren.455@gmail.com', 'A".A$W+>r:{s+}');

INSERT INTO Patient (pat\_id, name, email, password)

VALUES (7, 'Cooper Bush', 'cooperbush@gmail.com', 'apple2002');

INSERT INTO Patient (pat\_id, name, email, password)

VALUES (8, 'Jared Bartlett', 'jbarlett@icloud.com', 'moura15/19');

INSERT INTO Patient (pat\_id, name, email, password)

VALUES (9, 'Ariyah Wallace', 'ariyahwall@gmail.com', '+(KBwh%Xl\_iy9u');

create or replace procedure bookApt(did number, pid number , times timestamp)

as

ids number;

begin

select max(id) into ids from appointment;

ids:= ids +1;

update timeslot set isavailable = 'N' where dr\_id = did and time = times;

insert into appointment values (ids,times,did, pid);

end;

create or replace procedure GetDoctors

(spec in varchar2 , CID out sys\_refcursor)

as

begin

open CID for

select DR\_ID,Dname

from doctor d

where d.SPECIALTY = spec;

end;

create or replace procedure getDrId(DID out number)

as

begin

select max(dr\_id)

into DID

from doctor;

did:= did+ 1;

end;

create or replace procedure getPatId(PID out number)

as

begin

select max(pat\_id)

into PID

from patient;

pid := pid + 1;

end;

create or replace procedure selectDr (

did NUMBER ,

dname out VARCHAR2,

specialty out VARCHAR2,

startTime out TIMESTAMP,

endTime out TIMESTAMP,

apptdur out NUMBER,

apptcost out NUMBER)

as

begin

select dname,specialty, starttime, endtime,apptdur, apptcost

into dname,specialty,startTime,endTime,apptdur, apptcost

from doctor

where dr\_id=did;

end;

create or replace trigger trigg\_timeslots

after insert on doctor

FOR EACH ROW

Declare

appttime TIMESTAMP ;

mydate date;

finishtime TIMESTAMP;

x number;

begin

mydate := sysdate;

x:=0;

LOOP

finishtime:=:new.endtime+ x;

appttime:=:new.startTime+ x;

LOOP

insert into timeslot values(appttime, :new.dr\_id , 'Y');

appttime := appttime + (1/1440\*:new.apptdur);

exit when appttime> finishtime;

END LOOP;

x:=x+1;

mydate := mydate+1;

exit when mydate > sysdate+7;

END LOOP;

END;