

SKEDULA SQL Statements

Table CREATION:

```
CREATE TABLE Doctor (  
    DocID  VARCHAR (4) PRIMARY KEY  
           CHECK (SUBSTR(DocID, 1, 1) = 'D'),  
    pwd    VARCHAR (10) NOT NULL,  
    fName  VARCHAR (15) NOT NULL,  
    sName  VARCHAR (10),  
    Spec   VARCHAR (3) NOT NULL,  
    stTime TIME,  
    endTime TIME,  
    maxToday NUMBER (2) CHECK (maxtoday > 0)  
);
```

```
CREATE TABLE Receptionist (  
    RID  VARCHAR (4) PRIMARY KEY  
         CHECK (SUBSTR(RID, 1, 1) = 'R'),  
    pwd  VARCHAR (10) NOT NULL,  
    fName VARCHAR (15) NOT NULL,  
    sName VARCHAR (10)  
);
```

```
CREATE TABLE Patient (  
    PatID  VARCHAR (4) PRIMARY KEY  
           CHECK (SUBSTR(PatID, 1, 1) = 'P'),  
    pwd    VARCHAR (10) NOT NULL,  
    fName  VARCHAR (15) NOT NULL,  
    sName  VARCHAR (10),  
    addrL1 VARCHAR (100) NOT NULL,  
    addrL12 VARCHAR (100)  
);
```

```
CREATE TABLE PatMob (  
    PatID VARCHAR (4) REFERENCES Patient,  
    MobNo NUMBER (10),  
    PRIMARY KEY (  
        PatID,  
        MobNo  
    )  
);
```

```
CREATE TABLE Schedule (  
    SID VARCHAR (4) PRIMARY KEY  
        CHECK (SUBSTR(SID, 1, 1) = 'S'),  
    stTime TIME NOT NULL,  
    PatID VARCHAR (4) NOT NULL  
        REFERENCES Patient,  
    DocID VARCHAR (4) REFERENCES Doctor (DocID)  
        NOT NULL  
);
```

```
CREATE TABLE DocSch (  
    SID VARCHAR (4) REFERENCES Schedule,  
    DocID VARCHAR (4) REFERENCES Doctor,  
    DocRep VARCHAR (200),  
    PRIMARY KEY (  
        SID,  
        DocID  
    )  
);
```

```
CREATE TABLE Admin (  
    AID VARCHAR (4) PRIMARY KEY  
        CHECK (SUBSTR(AID, 1, 1) = 'A'),  
    pwd VARCHAR (10) NOT NULL,  
    fName VARCHAR (15) NOT NULL,  
    sName VARCHAR (10)  
);
```

```
CREATE TABLE AdminManipulate (  
    AID VARCHAR (4) REFERENCES Admin,  
    MID VARCHAR (4) NOT NULL  
);
```

INSERTION of Values:

```
INSERT INTO Admin (AID,pwd,fName,sName)
VALUES('A001','abcdefg78','Ragavendra','Goswami');
INSERT INTO Admin (AID,pwd,fName,sName) VALUES('A002','cryptobit','Bhindu','Panikar');
INSERT INTO Admin (AID,pwd,fName) VALUES('A003','disledger','Suresh');
```

```
INSERT INTO Doctor(DocID,pwd,fName,sName,Spec) VALUES
('D001','digimoney','Surya','Madhavan','PED');
INSERT INTO Doctor(DocID,pwd,fName,sName,Spec) VALUES
('D002','digipregn','Kalyani','Vasudev','GYN');
INSERT INTO Doctor(DocID,pwd,fName,sName,Spec) VALUES
('D003','digimassg','Subramaniyam','Santhosh','PHY');
INSERT INTO Doctor(DocID,pwd,fName,sName,Spec) VALUES
('D004','digiskele','Jhon','Bhaskar','ORT');
INSERT INTO Doctor(DocID,pwd,fName,sName,Spec) VALUES
('D005','digiskin','Vijay','Mahadevan','DER');
INSERT INTO Doctor(DocID,pwd,fName,sName,Spec) VALUES
('D006','digialpha','Raj','Kapoor','ORT');
INSERT INTO Doctor(DocID,pwd,fName,sName,Spec) VALUES
('D007','digitalise','Amit','Mishra','DER');
```

```
INSERT INTO Receptionist (RID,pwd,fName,sName)
VALUES('R001','Andromeda','Pranav','Nambiar');
INSERT INTO Receptionist (RID,pwd,fName,sName)
VALUES('R002','EqUinoxPhe','Jenny','Janima');
INSERT INTO Receptionist (RID,pwd,fName,sName)
VALUES('R003','constella','Sourabh','Dathan');
```

SQL Statements for each webpage:

GREEN: available directly as input from the webpage

RED: Needs data manipulation using JavaScript

Webpage	SQL statement	Note:
Book Appointment	<pre>INSERT INTO Schedule VALUES ('sid','start_time','PatID','Doc_id'); SELECT DocID FROM Doctor WHERE (fName='abc' AND Spec='efg');</pre>	<p>For the doc id use the JavaScript based drop down to store the doctor id (Doctor name and Spec available as input) and use it later. Under the assumption that there are no two doctors with the same name and specialization.</p> <p>Check out on ways to fill the dropdown dynamically from the table instead of writing a lot of Static HTML codes</p>
Reschedule	<pre>SELECT Schedule.SID, Schedule.stTime, Doctor.fName, Doctor.Spec FROM Schedule INNER JOIN Doctor ON Schedule.DocID=Doctor.DocID WHERE (Schedule.DocID='abc');</pre>	<p>Display the report tile contents: Use a select statement to retrieve all the doc id's beforehand and use this statement to get data to display on the Reschedule page.</p> <p>If there are no schedules, then make sure to show that NO Schedules</p>
	<pre>UPDATE Schedule SET stTime='NewTime' WHERE (SID='abc');</pre>	<p>Edit time: Schedule id is already available after we fetch the details, use it!</p>
	<pre>DELETE FROM Schedule WHERE (SID='abc');</pre>	<p>Deleting Schedule</p>
Reports	<pre>SELECT DocRep FROM DocSch WHERE(SID='abc');</pre>	<p>Use the link that we get here for the reports tile.</p> <p>Put on a loop to fetch all SID and DocID associated with a single user</p>
Doctor	<pre>UPDATE DocSch SET DocRep='link from the text box' WHERE SID='most recent SID' AND DocID='Currently logged in doc ID';</pre>	<p>Updating the patient report</p>
	<pre>UPDATE Doctor SET stTime='abc',endTime='efg',maxToday='12'</pre>	<p>Updating doctor current schedule</p>
Admin	-	<p>Update patient, doctor, receptionist details like the above cases</p>
	<pre>SELECT * FROM AdminManipulate;</pre>	<p>To display all the recent updates</p>

		Write the appropriate trigger to fill in the contents of this table when required
Registration	INSERT INTO Patient (pwd, fName, sName, addrL1, addrL2) VALUES ('password from form', 'first name', 'second name', 'address line 1', 'address line 2'); INSERT INTO PatMob VALUES('patid', 'mob number')	Auto generate patid and return that back
Receptionist	INSERT INTO Schedule VALUES ('sid', 'start_time', 'PatID', 'Doc_id'); SELECT DocID FROM Doctor WHERE (fName='abc' AND Spec='efg');	For the doc id use the JavaScript based drop down to store the doctor id (Doctor name and Spec available as input) and use it later. Under the assumption that there are no two doctors with the same name and specialization. Check out on ways to fill the dropdown dynamically from the table instead of writing a lot of Static HTML codes FORM ON LHS
	INSERT INTO Patient (pwd, fName, sName, addrL1, addrL2) VALUES ('password from form', 'first name', 'second name', 'address line 1', 'address line 2'); INSERT INTO PatMob VALUES('patid', 'mob number')	After doing this update the Schedule table with the other details FORM ON RHS

Triggers Required:

//use declare section to add a variable store current AID for all the Manipulates

```
CREATE or REPLACE TRIGGER Doc_trigger
AFTER UPDATE OF fName,sName,pwd ON Doctor
FOR EACH ROW
BEGIN
INSERT INTO AdminManipulate
VALUES
(AID,
:old.DocID
END;
```

```
CREATE or REPLACE TRIGGER Recp_trigger
AFTER UPDATE OF fName,sName,pwd ON Receptionist
FOR EACH ROW
BEGIN
INSERT INTO AdminManipulate
VALUES
(AID,
:old.RID
END;
```

```
CREATE or REPLACE TRIGGER Pat_trigger
AFTER UPDATE OF fName,sName,pwd ON Patient
FOR EACH ROW
BEGIN
INSERT INTO AdminManipulate
VALUES
(AID,
:old.PatID
END;
```