

DBMS MINIPROJECT

HOSPITAL APPOINTMENT MANAGEMENT SYSTEM

ANEESH RAVISHANKAR

PES1UG20CS051

5 'A'

56 ROLLNO.

Abstract:

The need for healthcare services is growing with the increase in population and the number of patients who seek health care at hospitals, medical facilities, holistic groups, and physicians practice has improved significantly.

These bring a new set of challenges for the staff of the facility and administrators. Online scheduling software, a recent technological advancement, has made the booking process in hospitals easier for both patients and administrative staffs.

Short project description

The project which has been implemented here is a hospital appointment management system. This project has 2 components:

1. Patient view
2. Admin view

If we look at this from a patient's perspective, this project allows him to register to make an account, then login and use its various functionalities. First, he must sign up and provide a valid (in this case a non-clashing) email ID and phone number. Upon providing the necessary information an account is created and is added to the database.

Once an account has been created, the next step is logging in by entering username and password. Then, you have to book an appointment. You enter the necessary information like Date of visit, doctor, and clinic, and the system will scan through the database to see if said doctor is available on that given date. If he is, then the appointment can be booked. The patient has an option to view all his appointments. Furthermore, the patient also has a choice to cancel his appointments. We also allow him to check all his cancelled appointments to allow him to schedule it better the next time around.

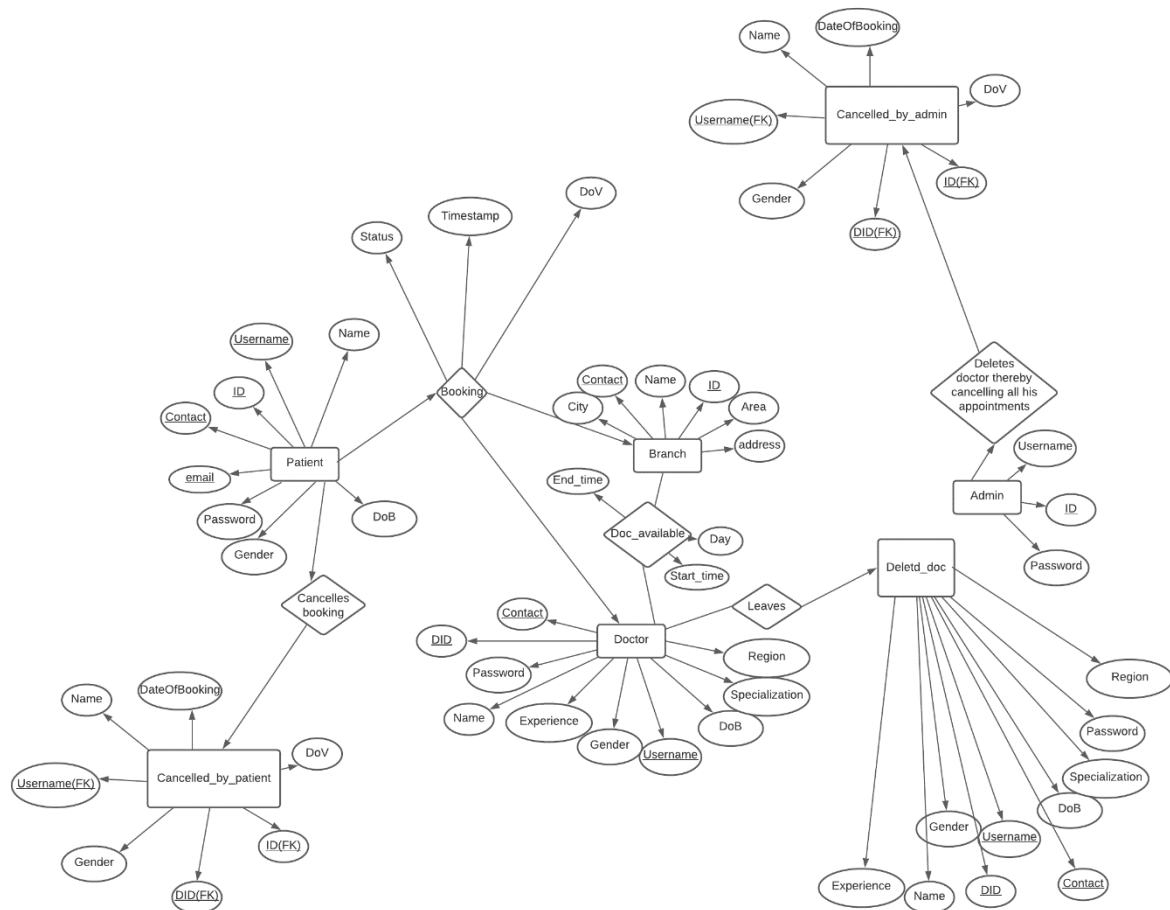
Coming to the admin view, first we have to login as an admin. The admin has a lot more functionalities. Firstly, he has the choice to add and delete doctors, each of which results in a varying set of events to take place. He also has the option add and delete a branch of the hospital; in case it closes. Then he has the ability to view all of the doctor's appointments. He can view all the branches as well. When he deletes a hospital or a branch, a series of operations take place which will cancel the appointment of the patient as well. We also provide a facility to view the doctors who left for future use if necessary.

Future scope:

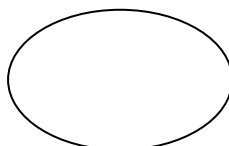
This project has a lot of scope in the real world. A patient can book his appointments and keep track of them online. It makes it easier for the admin to manage the doctors, branches and the appointments at once. As a future scope, the system can have a doctor's login as well where he can communicate with the admin about the completion of an appointment and notify the patient. Once this is done, the project will be ready to release. The use case for this

can be a single hospital with a few branches first to test out the software. If this succeeds, then it can be scaled up to high functioning hospitals as well.

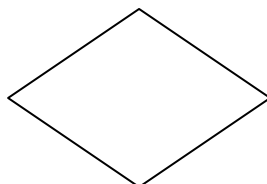
ER-diagram



-This represents an entity



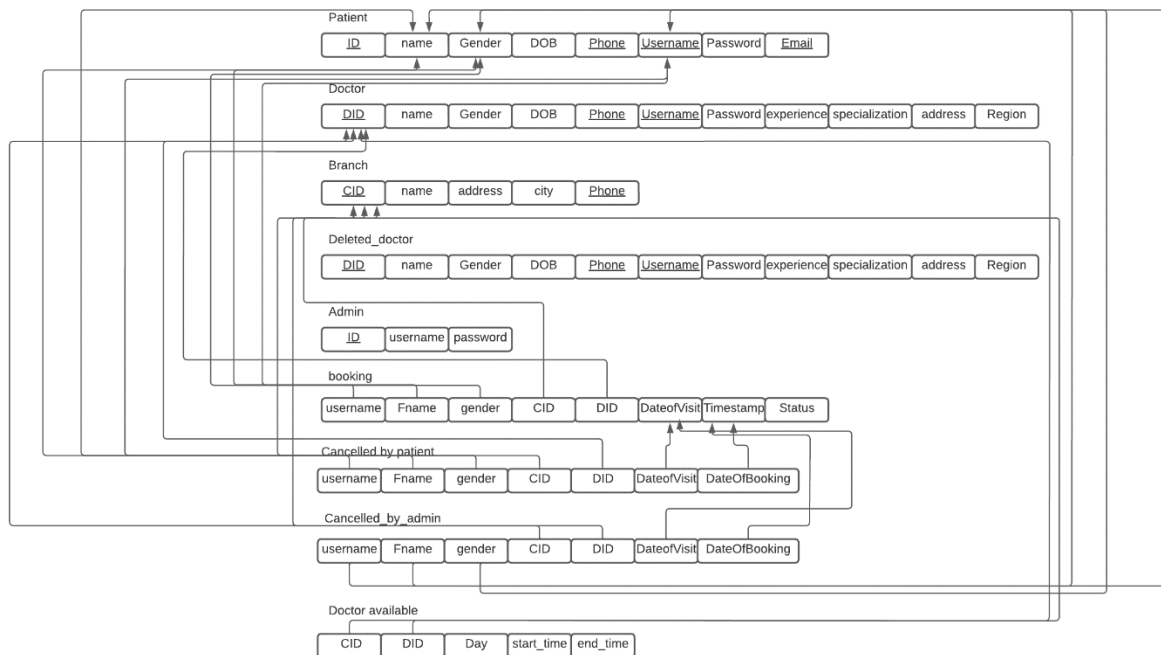
-This represents an attribute



-This represents a relation

An underlined attribute represents a primary key.

Relational Schema



DDL statements used to build the database

```
DELIMITER $$
```

```
--
```

```
-- Procedures
```

```
--
```

```
--
```

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `normalizeregion`() begin
```

```
DECLARE finished int default 0;
```

```

declare city1 varchar(50) default "";
DECLARE city_list varchar(200) default "";
DECLARE regcursor CURSOR FOR SELECT city from branch;
DECLARE CONTINUE HANDLER For NOT FOUND SET finished = 1;

open regcursor;
start_loop:LOOP
FETCH regcursor into city1;
if finished = 1 THEN
LEAVE start_loop;
END IF;
SET city_list = CONCAT(city_list," ",UPPER(city1));
END LOOP start_loop;
CLOSE regcursor;
SELECT city_list;
END$$

```

```

CREATE DEFINER=`root`@`localhost` PROCEDURE `valid_experience` (IN `DOB`
DATE, IN `exp` INT, OUT `msg` VARCHAR(30)) BEGIN
DECLARE age int;
declare startage int;
set age= age_doctor(DOB);
set startage=age-exp;
IF startage<20 THEN
set msg= 'Invalid exp entered';
ELSE
if exp>5 THEN
set msg='The doctor is experienced';
ELSE
set msg='the doctor is inexperienced';
end if;

```

```
END IF;
```

```
END$$
```

```
--
```

```
-- Functions
```

```
--
```

```
CREATE DEFINER=`root`@`localhost` FUNCTION `age_doctor` (`DOB` DATE)  
RETURNS INT(11) BEGIN
```

```
DECLARE age int;
```

```
set age=datediff(CURRENT_DATE,DOB);
```

```
set age=floor(age/365);
```

```
RETURN age;
```

```
END$$
```

```
DELIMITER ;
```

Table creation:

```
--
```

```
-- Table structure for table `admintable`
```

```
--
```

```
CREATE TABLE `admintable` (  
  `id` int(11) NOT NULL,  
  `username` varchar(100) NOT NULL,  
  `password` varchar(100) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
--
```

-- Table structure for table **`booking`**

--

```
CREATE TABLE `booking` (  
  `username` varchar(30) NOT NULL,  
  `Fname` varchar(30) NOT NULL,  
  `gender` varchar(10) NOT NULL,  
  `CID` int(11) NOT NULL,  
  `DID` int(11) NOT NULL,  
  `DOV` date NOT NULL,  
  `Timestamp` datetime NOT NULL,  
  `Status` varchar(50) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

--

-- **Triggers** `booking`

--

DELIMITER \$\$

CREATE TRIGGER `cancel_book` AFTER UPDATE ON `booking` FOR EACH ROW if
(new.status like 'Cancelled by Patient')

then

INSERT into

cancelled_by_patient(username,Fname,gender,CenterID,DID,DOV,DateOfBooking)

VALUES (old.username,old.Fname,old.gender,old.cid,old.did,old.dov,old.timestamp);

ELSE

INSERT into

cancelled_by_admin(username,Fname,gender,CenterID,DID,DOV,DateOfBooking)

VALUES (old.username,old.Fname,old.gender,old.cid,old.did,old.dov,old.timestamp);

end if

\$\$

DELIMITER ;

--

-- Table structure for table **`branch`**

--

```
CREATE TABLE `branch` (  
  `CID` int(11) NOT NULL,  
  `name` varchar(30) NOT NULL,  
  `address` varchar(30) NOT NULL,  
  `city` varchar(20) NOT NULL,  
  `contact` varchar(10) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

--

-- **Triggers `branch`**

--

DELIMITER \$\$

```
CREATE TRIGGER `deletedbranch` AFTER DELETE ON `branch` FOR EACH ROW  
delete from doctor_available where doctor_available.CID=old.cid
```

\$\$

DELIMITER ;

--

-- Table structure for table **`cancelled_by_admin`**

--


```
CREATE TABLE `cancelled_by_admin` (  
  `username` varchar(30) NOT NULL,  
  `Fname` varchar(30) NOT NULL,  
  `gender` varchar(10) NOT NULL,  
  `CenterID` int(11) NOT NULL,  
  `DID` int(11) NOT NULL,  
  `DOV` date NOT NULL,  
  `DateOfBooking` datetime NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

--

-- Table structure for table **`cancelled_by_patient`**

--

```
CREATE TABLE `cancelled_by_patient` (  
  `username` varchar(30) NOT NULL,  
  `Fname` varchar(30) NOT NULL,  
  `gender` varchar(10) NOT NULL,  
  `CenterID` int(11) NOT NULL,  
  `DID` int(11) NOT NULL,  
  `DOV` date NOT NULL,  
  `DateOfBooking` datetime NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

--

-- Table structure for table **`deleted_doctors`**

--

```
CREATE TABLE `deleted_doctors` (  
  `DID` int(11) NOT NULL,  
  `name` varchar(30) NOT NULL,  
  `gender` varchar(10) NOT NULL,  
  `dob` date NOT NULL,  
  `experience` int(11) DEFAULT NULL,  
  `specialisation` varchar(30) NOT NULL,  
  `contact` varchar(10) NOT NULL,  
  `address` varchar(40) NOT NULL,  
  `username` varchar(30) NOT NULL,  
  `password` varchar(20) NOT NULL,  
  `region` varchar(20) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

-- -----

--

-- Table structure for table **`doctor`**

--

```
CREATE TABLE `doctor` (  
  `DID` int(11) NOT NULL,  
  `name` varchar(30) NOT NULL,  
  `gender` varchar(10) NOT NULL,  
  `dob` date NOT NULL,  
  `experience` int(11) DEFAULT NULL,  
  `specialisation` varchar(30) NOT NULL,  
  `contact` varchar(10) NOT NULL,
```

```

`address` varchar(40) NOT NULL,
`region` varchar(20) NOT NULL,
`username` varchar(100) NOT NULL,
`password` varchar(100) DEFAULT NULL
);

--

-- Triggers `doctor`
--

DELIMITER $$

CREATE TRIGGER `admin_cancel` AFTER DELETE ON `doctor` FOR EACH ROW
UPDATE booking set `Status`="Cancelled by admin" where booking.DID=old.DID
$$

DELIMITER ;

DELIMITER $$

CREATE TRIGGER `deleteavail` AFTER DELETE ON `doctor` FOR EACH ROW delete
from doctor_available where doctor_available.DID=old.did
$$

DELIMITER ;

DELIMITER $$

CREATE TRIGGER `deletedDoc` AFTER DELETE ON `doctor` FOR EACH ROW
INSERT INTO deleted_doctors(DID,name,gender,dob,experience,specialisation,contact
,address,username,password,region) VALUES
(old.DID,old.name,old.gender,old.dob,old.experience,old.specialisation,
old.contact,old.address,old.username,old.password,old.region)
$$

DELIMITER ;

-----

--

-- Table structure for table `doctor_available`

```

--

```
CREATE TABLE `doctor_available` (  
  `CID` int(11) NOT NULL,  
  `DID` int(11) NOT NULL,  
  `day` varchar(20) NOT NULL,  
  `starttime` time NOT NULL,  
  `endtime` time NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

--

-- Table structure for table **`patient`**

--

```
CREATE TABLE `patient` (  
  `id` int(11) NOT NULL,  
  `name` varchar(30) NOT NULL,  
  `gender` varchar(10) NOT NULL,  
  `dob` date NOT NULL,  
  `phone` varchar(10) NOT NULL,  
  `username` varchar(20) NOT NULL,  
  `password` varchar(30) NOT NULL,  
  `email` varchar(30) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

Adding primary keys and auto-increment

```
ALTER TABLE `admintable`  
  ADD PRIMARY KEY (`id`);
```

```
--  
-- Indexes for table `branch`  
--  
ALTER TABLE `branch`  
  ADD PRIMARY KEY (`CID`,`contact`);  
  
--  
-- Indexes for table `deleted_doctors`  
--  
ALTER TABLE `deleted_doctors`  
  ADD PRIMARY KEY (`DID`,`username`,`contact`);  
  
--  
-- Indexes for table `doctor`  
--  
ALTER TABLE `doctor`  
  ADD PRIMARY KEY (`DID`,`username`,`contact`);  
  
--  
-- Indexes for table `patient`  
--  
ALTER TABLE `patient`  
  ADD PRIMARY KEY (`id`,`username`,`email`,`phone`);  
  
--  
-- AUTO_INCREMENT for table `admintable`  
--  
ALTER TABLE `admintable`  
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
```

```
--  
-- AUTO_INCREMENT for table `patient`  
--  
ALTER TABLE `patient`  
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=15;  
COMMIT;
```

There are a total of 10 tables in the database each of which have been highlighted in bold in the above command dump.

There are a total of 5 triggers which have also been highlighted.

There are 2 procedures, one of which uses a user-defined function which has been highlighted at the start.

Methods used to populate Data

Direct interaction with database using xampp:

```
INSERT INTO `doctor` (`DID`, `name`, `gender`, `dob`, `experience`, `specialisation`,  
`contact`, `address`, `region`, `username`, `password`) VALUES  
(103, 'Aneesh R', 'male', '2002-04-12', 10, 'NeuroSurgeon', '9663170598', 'seshadripuram',  
'bangalore', 'PES1UG20CS050', 'hi123'),  
(104, 'PES', 'male', '2002-04-12', 8, 'Nutritionist', '9663170597', 'jayanagar', 'bangalore',  
'PES1UG20CS049', 'hi123'),  
(105, 'SRN051', 'male', '2002-04-12', 10, 'Heart Specialist', '9663170598', 'NLO', 'mysore',  
'PES1UG20CS048', 'hi123'),
```

(106, 'randomval', 'male', '2002-04-12', 10, 'Dentist', '9663170598', 'mallechwaram', 'bangalore', 'PES1UG20CS058', 'hi123');

Show query box

4 rows inserted. (Query took 0.0016 seconds)


```
INSERT INTO "doctor" ("DID", "name", "gender", "dob", "experience", "specialisation", "contact", "address", "region", "username", "password") VALUES (103, 'Aneesh R', 'male', '2002-04-12', 10, 'NeuroSurgeon', '9663170598', 'seshadripuram', 'bangalore', 'PES1UG20CS050', 'hi123'), (104, 'PES', 'male', '2002-04-12', 8, 'Nutritionist', '9663170597', 'jayanagar', 'bangalore', 'PES1UG20CS049', 'hi123'), (105, 'SRN051', 'male', '2002-04-12', 10, 'Heart Specialist', '9663170598', 'NLO', 'mysore', 'PES1UG20CS048', 'hi123'), (106, 'randomval', 'male', '2002-04-12', 10, 'Dentist', '9663170598', 'mallechwaram', 'bangalore', 'PES1UG20CS058', 'hi123');
```

[Edit inline] [Edit] [Create PHP code]

		DID	name	gender	dob	experience	specialisation	contact	address	region	username	password
<input type="checkbox"/>	Edit	102	Aneesh Ravishankar	male	2002-04-12	10	NeuroSurgeon	9663170599	blah blah	bangalore	PES1UG20CS051	hi123
<input type="checkbox"/>	Edit	103	Aneesh R	male	2002-04-12	10	NeuroSurgeon	9663170598	seshadripuram	bangalore	PES1UG20CS050	hi123
<input type="checkbox"/>	Edit	104	PES	male	2002-04-12	8	Nutritionist	9663170597	jayanagar	bangalore	PES1UG20CS049	hi123
<input type="checkbox"/>	Edit	105	SRN051	male	2002-04-12	10	Heart Specialist	9663170598	NLO	mysore	PES1UG20CS048	hi123
<input type="checkbox"/>	Edit	106	randomval	male	2002-04-12	10	Dentist	9663170598	mallechwaram	bangalore	PES1UG20CS058	hi123

Populating data by interacting with front end

1. Patient Signup


HOME

Enter Name:

Aneesh Ravishankar

Enter Date of birth:

04-02-2018

Gender:

☒ Male

☐ Female

☐ Other

Contact number:

9663170524

Enter Username:

PES1UG20MED044

Enter email:

blah43@gmail.com

Enter Password:

Confirm Password:

By Signup you accept to our terms and conditions

Sign Up Cancel

		id	name	gender	dob	phone	username	password	email
<input type="checkbox"/>	Edit	9	Aneesh	male	2022-02-12	9663170599	PES1UG20CS051	hi123	blah2@gmail.com
<input type="checkbox"/>	Edit	10	lo	male	2022-11-05	9663170590	PES1UG20MED004	hi123	blah3@gmail.com
<input type="checkbox"/>	Edit	13	Aneesh Ravishankar	male	2022-10-14	9663170597	PES1UG20CS052	hi123	blah6@gmail.com
<input type="checkbox"/>	Edit	14	Aneesh Ravishankar	male	2022-11-06	9663170543	PES1UG20EE071	hi123	blah10@gmail.com
<input type="checkbox"/>	Edit	15	Aneesh Ravishankar	male	2018-02-08	9663170524	PES1UG20MED044	hi123	blah43@gmail.com

2. Adding Doctor

ADMIN
DOCTOR Branch LOGOUT

ADD DOCTOR

DID: 203

Name: SRN051
Gender: ☐ Female ☒ Male

DOB: 12-04-2008
Experience: 8
Specialisation: General

Contact: 9663170523
Address: malleshwaram

Region: bangalore
Username: PES1UG20MED04
Password: ****

REGISTER

		DID	name	gender	dob	experience	specialisation	contact	address	region	username	password
<input type="checkbox"/>	Edit Copy Delete	102	Aneesh Ravishankar	male	2002-04-12	10	NeuroSurgeon	9663170599	blah blah	bangalore	PES1UG20CS051	hi123
<input type="checkbox"/>	Edit Copy Delete	103	Aneesh R	male	2002-04-12	10	NeuroSurgeon	9663170598	seshadripuram	bangalore	PES1UG20CS050	hi123
<input type="checkbox"/>	Edit Copy Delete	104	PES	male	2002-04-12	8	Nutritionist	9663170597	jayanagar	bangalore	PES1UG20CS049	hi123
<input type="checkbox"/>	Edit Copy Delete	105	SRN051	male	2002-04-12	10	Heart Specialist	9663170598	NLO	mysore	PES1UG20CS048	hi123
<input type="checkbox"/>	Edit Copy Delete	106	randomval	male	2002-04-12	10	Dentist	9663170598	malleshwaram	bangalore	PES1UG20CS058	hi123
<input type="checkbox"/>	Edit Copy Delete	108	SRN051	male	2008-04-12	8	General	9663170523	malleshwaram	bangalore	PES1UG20ME044	hi123

DID entered in this case is restricted from 100 to 200 so I changed the did to 108 instead

3. Adding Clinic

← → ↻ ⓘ localhost/Online-Appointment-Management-System-main/NewBranch.php

ADMIN MODE

DOCTOR Branch [LOGOUT](#)

ADD Branch

CID: Name: Contact:

Address: City:

[REGISTER](#)

				CID	name	address	city	contact
<input type="checkbox"/>	Edit	Copy	Delete	1	Appolo Main	blah1	Bangalore	8971754321
<input type="checkbox"/>	Edit	Copy	Delete	5	Appolo mlm branch	blah2	Mysore	1234567890
<input type="checkbox"/>	Edit	Copy	Delete	10	appolo sesh branch	blah3	Bangalore	8899776655
<input type="checkbox"/>	Edit	Copy	Delete	109	Apollo Kammanhalli	Kammanhalli	bangalore	9663170500

4.Appointing Doctor to a Branch

Assign Doctor to a Branch

City:

Branch:

Doctor:

Available Days

Monday: ☐

Tuesday: ☒

Wednesday: ☒

Thursday: ☐

Friday: ☐

Saturday: ☐

Availability(24 hour Format):

From:

To:

CID	DID	day	starttime	endtime
10	102	Monday	06:08:00	07:09:00
10	102	Tuesday	06:08:00	07:09:00
10	102	Wednesday	06:08:00	07:09:00
10	102	Thursday	06:08:00	07:09:00
10	102	Friday	06:08:00	07:09:00
10	102	Saturday	06:08:00	07:09:00
109	108	Monday	06:06:00	17:30:00
109	108	Tuesday	06:06:00	17:30:00
109	108	Wednesday	06:06:00	17:30:00
109	108	Tuesday	02:10:00	20:48:00
109	108	Wednesday	02:10:00	20:48:00

Join Queries

1.Getting doctors and the day they are working on:

SELECT name,day

FROM doctor

INNER JOIN doctor_available ON doctor_available.DID = doctor.DID ;

Apollo Online Appointment System		HOME
name	day	
Aneesh Ravishankar	Monday	
Aneesh Ravishankar	Tuesday	
Aneesh Ravishankar	Wednesday	
Aneesh Ravishankar	Thursday	
Aneesh Ravishankar	Friday	
Aneesh Ravishankar	Saturday	
SRN051	Monday	
SRN051	Tuesday	
SRN051	Wednesday	
SRN051	Tuesday	
SRN051	Wednesday	

2. Getting the name of the branch and the days when its open

SELECT name,day

FROM branch

INNER JOIN doctor_available ON branch.CID = doctor_available.CID ;

Apollo Online Appointment System		HOME
name	day	
apollo sesh branch	Monday	
apollo sesh branch	Tuesday	
apollo sesh branch	Wednesday	
apollo sesh branch	Thursday	
apollo sesh branch	Friday	
apollo sesh branch	Saturday	
Apollo Kammanhalli	Monday	
Apollo Kammanhalli	Tuesday	
Apollo Kammanhalli	Wednesday	
Apollo Kammanhalli	Tuesday	
Apollo Kammanhalli	Wednesday	

3. Getting the Doctor Aneesh Ravishankar's appointments

SELECT booking.username,fname as patient_name,booking.gender,cid,dov

FROM booking

INNER JOIN doctor ON doctor.DID = booking.DID

where doctor.name like "Aneesh Ravishankar";

username	patient_name	gender	cid	dov	
PES1UG20CS051	Aneesh	male	10	2022-11-30	
PES1UG20CS051	Aneesh	male	10	2022-11-30	

4. Getting all of "apollo sesh branch" appointments

SELECT booking.username,fname as patient_name,booking.gender,did,dov

FROM booking

INNER JOIN branch ON branch.CID = booking.CID

where branch.name like "apollo sesh branch";

username	patient_name	gender	did	dov
PES1UG20CS051	Aneesh	male	102	2022-11-30
PES1UG20CS051	Aneesh	male	102	2022-11-30

Aggregate Functions:

1.Counting number of doctors:

SELECT COUNT(*) as number_of_doctors FROM doctor ;

number_of_doctors
6

2.Return the number of doctors who are older than 19:

SELECT COUNT(*) as number_of_doctors FROM doctor where age_doctor(doctor.dob)>19 ;

	DID	name	gender	dob	experience	specialisation	contact	address	region	username	password
<input type="checkbox"/>	102	Aneesh Ravishankar	male	2002-04-12	10	NeuroSurgeon	9663170599	blah blah	bangalore	PES1UG20CS051	hi123
<input type="checkbox"/>	103	Aneesh R	male	2002-04-12	10	NeuroSurgeon	9663170598	seshadripuram	bangalore	PES1UG20CS050	hi123
<input type="checkbox"/>	104	PES	male	2002-04-12	8	Nutritionist	9663170597	jayanagar	bangalore	PES1UG20CS049	hi123
<input type="checkbox"/>	105	SRN051	male	2002-04-12	10	Heart Specialist	9663170598	NLO	mysore	PES1UG20CS048	hi123
<input type="checkbox"/>	106	randomval	male	2002-04-12	10	Dentist	9663170598	malleswaram	bangalore	PES1UG20CS058	hi123
<input type="checkbox"/>	108	SRN051	male	2008-04-12	8	General	9663170523	malleswaram	bangalore	PES1UG20ME044	hi123

number_of_doctors
5

3.Return number of doctors currently appointed under each CID

SELECT count(*) as no_docs,CID

FROM doctor_available

GROUP BY CID;

CID	DID	day	starttime	endtime
10	102	Monday	06:08:00	07:09:00
10	102	Tuesday	06:08:00	07:09:00
10	102	Wednesday	06:08:00	07:09:00
10	102	Thursday	06:08:00	07:09:00
10	102	Friday	06:08:00	07:09:00
10	102	Saturday	06:08:00	07:09:00
109	108	Monday	06:06:00	17:30:00
109	108	Tuesday	06:06:00	17:30:00
109	108	Wednesday	06:06:00	17:30:00
109	108	Tuesday	02:10:00	20:48:00
109	108	Wednesday	02:10:00	20:48:00

Apollo Online Appointment System		HOME
no_docs	CID	
6	10	
5	109	

4. Count the number of doctors from different regions and arrange them in ascending order

SELECT region,count(*) as no_docs

FROM doctor

GROUP BY region

order by no_docs ASC ;

Apollo Online Appointment System		HOME
region	no_docs	
mysore	2	
bangalore	4	

	DID	name	gender	dob	experience	specialisation	contact	address	region	username	password
<input type="checkbox"/>	102	Aneesh Ravishankar	male	2002-04-12	10	NeuroSurgeon	9663170599	blah blah	bangalore	PES1UG20CS051	hi123
<input type="checkbox"/>	103	Aneesh R	male	2002-04-12	10	NeuroSurgeon	9663170598	seshadripuram	bangalore	PES1UG20CS050	hi123
<input type="checkbox"/>	104	PES	male	2002-04-12	8	Nutritionist	9663170597	jayanagar	mysore	PES1UG20CS049	hi123
<input type="checkbox"/>	105	SRN051	male	2002-04-12	10	Heart Specialist	9663170598	NLO	mysore	PES1UG20CS048	hi123
<input type="checkbox"/>	106	randomval	male	2002-04-12	10	Dentist	9663170598	malleshwaram	bangalore	PES1UG20CS058	hi123
<input type="checkbox"/>	108	SRN051	male	2008-04-12	8	General	9663170523	malleshwaram	bangalore	PES1UG20MED044	hi123

Set Functions:

1. Return the information of doctors who are from Bangalore and Mumbai

```
SELECT *  
FROM doctor  
WHERE region = "bangalore"  
UNION  
SELECT *  
FROM doctor  
WHERE region = "mumbai"
```

← T →		▼ DID	name	gender	dob	experience	specialisation	contact	address	region	username	password		
<input type="checkbox"/>				102	Aneesh Ravishankar	male	2002-04-12	10	NeuroSurgeon	9663170599	blah blah	bangalore	PES1UG20CS051	hi123
<input type="checkbox"/>				103	Aneesh R	male	2002-04-12	10	NeuroSurgeon	9663170598	seshadripuram	bangalore	PES1UG20CS050	hi123
<input type="checkbox"/>				104	PES	male	2002-04-12	8	Nutritionist	9663170597	jayanagar	mysore	PES1UG20CS049	hi123
<input type="checkbox"/>				105	SRN051	male	2002-04-12	10	Heart Specialist	9663170598	NLO	mysore	PES1UG20CS048	hi123
<input type="checkbox"/>				106	randomval	male	2002-04-12	10	Dentist	9663170598	mallechwaram	bangalore	PES1UG20CS058	hi123
<input type="checkbox"/>				108	SRN051	male	2008-04-12	8	General	9663170523	mallechwaram	bangalore	PES1UG20ME044	hi123
<input type="checkbox"/>				152	Aneesh1 Ravishankar	male	1990-04-12	10	NeuroSurgeon	9663110599	blah blah	bangalore	PES1UG20CS151	hi123
<input type="checkbox"/>				153	Aneesh2 Ravishankar	male	1990-04-12	11	NeuroSurgeon	9663120599	blah blah	mumbai	PES1UG20CS251	hi123
<input type="checkbox"/>				154	Aneesh3 Ravishankar	male	1990-04-12	12	NeuroSurgeon	9663130599	blah blah	mumbai	PES1UG20CS351	hi123
<input type="checkbox"/>				155	Aneesh4 Ravishankar	male	1990-04-12	13	NeuroSurgeon	9663140599	blah blah	mumbai	PES1UG20CS451	hi123
<input type="checkbox"/>				156	Aneesh5 Ravishankar	male	1990-04-12	14	NeuroSurgeon	9663150599	blah blah	delhi	PES1UG20CS551	hi123
<input type="checkbox"/>				157	Aneesh6 Ravishankar	male	1990-04-12	15	NeuroSurgeon	9663160599	blah blah	delhi	PES1UG20CS651	hi123
<input type="checkbox"/>				158	Aneesh7 Ravishankar	male	1990-04-12	16	NeuroSurgeon	9663180599	blah blah	mysore	PES1UG20CS751	hi123
<input type="checkbox"/>				159	Aneesh8 Ravishankar	male	1990-04-12	10	NeuroSurgeon	9663190599	blah blah	mysore	PES1UG20CS851	hi123

DID	name	gender	dob	experience	specialisation	contact	address	region	username	password
102	Aneesh Ravishankar	male	2002-04-12	10	NeuroSurgeon	9663170599	blah blah	bangalore	PES1UG20CS051	hi123
103	Aneesh R	male	2002-04-12	10	NeuroSurgeon	9663170598	seshadripuram	bangalore	PES1UG20CS050	hi123
106	randomval	male	2002-04-12	10	Dentist	9663170598	mallechwaram	bangalore	PES1UG20CS058	hi123
108	SRN051	male	2008-04-12	8	General	9663170523	mallechwaram	bangalore	PES1UG20ME044	hi123
152	Aneesh1 Ravishankar	male	1990-04-12	10	NeuroSurgeon	9663110599	blah blah	bangalore	PES1UG20CS151	hi123
153	Aneesh2 Ravishankar	male	1990-04-12	11	NeuroSurgeon	9663120599	blah blah	mumbai	PES1UG20CS251	hi123
154	Aneesh3 Ravishankar	male	1990-04-12	12	NeuroSurgeon	9663130599	blah blah	mumbai	PES1UG20CS351	hi123
155	Aneesh4 Ravishankar	male	1990-04-12	13	NeuroSurgeon	9663140599	blah blah	mumbai	PES1UG20CS451	hi123

2. Return the information of doctors whose age is between 19 and 25

```
SELECT *  
FROM doctor  
WHERE age_doctor(dob)>19  
intersect  
SELECT *
```

FROM doctor
WHERE age_doctor(dob)<25;

<div><div></div><div></div></div>		DID	name	gender	dob	experience	specialisation	contact	address	region	username	password
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	102	Aneesh Ravishankar	male	2002-04-12	10	NeuroSurgeon	9663170599	blah blah	bangalore	PES1UG20CS051	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	103	Aneesh R	male	2002-04-12	10	NeuroSurgeon	9663170598	seshadripuram	bangalore	PES1UG20CS050	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	104	PES	male	2002-04-12	8	Nutritionist	9663170597	jayanagar	mysore	PES1UG20CS049	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	105	SRN051	male	2002-04-12	10	Heart Specialist	9663170598	NLO	mysore	PES1UG20CS048	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	106	randomval	male	2002-04-12	10	Dentist	9663170598	mallechwaram	bangalore	PES1UG20CS058	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	108	SRN051	male	2008-04-12	8	General	9663170523	mallechwaram	bangalore	PES1UG20ME044	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	152	Aneesh1 Ravishankar	male	1990-04-12	10	NeuroSurgeon	9663110599	blah blah	bangalore	PES1UG20CS151	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	153	Aneesh2 Ravishankar	male	1990-04-12	11	NeuroSurgeon	9663120599	blah blah	mumbai	PES1UG20CS251	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	154	Aneesh3 Ravishankar	male	1990-04-12	12	NeuroSurgeon	9663130599	blah blah	mumbai	PES1UG20CS351	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	155	Aneesh4 Ravishankar	male	1990-04-12	13	NeuroSurgeon	9663140599	blah blah	mumbai	PES1UG20CS451	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	156	Aneesh5 Ravishankar	male	1990-04-12	14	NeuroSurgeon	9663150599	blah blah	delhi	PES1UG20CS551	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	157	Aneesh6 Ravishankar	male	1990-04-12	15	NeuroSurgeon	9663160599	blah blah	delhi	PES1UG20CS651	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	158	Aneesh7 Ravishankar	male	1990-04-12	16	NeuroSurgeon	9663180599	blah blah	mysore	PES1UG20CS751	hi123
<input type="checkbox"/>	<div><div>Edit</div><div>Copy</div><div>Delete</div></div>	159	Aneesh8 Ravishankar	male	1990-04-12	10	NeuroSurgeon	9663190599	blah blah	mysore	PES1UG20CS851	hi123

Apollo Online Appointment System											HOME	
DID	name	gender	dob	experience	specialisation	contact	address	region	username	password		
102	Aneesh Ravishankar	male	2002-04-12	10	NeuroSurgeon	9663170599	blah blah	bangalore	PES1UG20CS051	hi123		
103	Aneesh R	male	2002-04-12	10	NeuroSurgeon	9663170598	seshadripuram	bangalore	PES1UG20CS050	hi123		
104	PES	male	2002-04-12	8	Nutritionist	9663170597	jayanagar	mysore	PES1UG20CS049	hi123		
105	SRN051	male	2002-04-12	10	Heart Specialist	9663170598	NLO	mysore	PES1UG20CS048	hi123		
106	randomval	male	2002-04-12	10	Dentist	9663170598	mallechwaram	bangalore	PES1UG20CS058	hi123		

3. Return the days when appointments are scheduled in CenterIDs '106' and '109':

```
SELECT CID,day
FROM doctor_available
WHERE CID="106"
UNION
SELECT CID,day
FROM doctor_available
WHERE CID="109"
```


109	108	Monday	06:06:00	17:30:00
109	108	Tuesday	06:06:00	17:30:00
109	108	Wednesday	06:06:00	17:30:00
109	108	Tuesday	02:10:00	20:48:00
109	108	Wednesday	02:10:00	20:48:00
5	158	Monday	23:29:00	23:29:00
5	158	Tuesday	23:29:00	23:29:00
5	158	Wednesday	23:29:00	23:29:00
104	154	Monday	22:30:00	23:30:00
104	154	Tuesday	22:30:00	23:30:00
104	154	Wednesday	22:30:00	23:30:00
106	156	Monday	23:30:00	23:54:00
106	156	Tuesday	23:30:00	23:54:00
106	156	Wednesday	23:30:00	23:54:00
106	156	Thursday	23:30:00	23:54:00
106	156	Friday	23:30:00	23:54:00
106	156	Saturday	23:30:00	23:54:00

CID	day
106	Monday
106	Tuesday
106	Wednesday
106	Thursday
106	Friday
106	Saturday
109	Monday
109	Tuesday
109	Wednesday

4. Return the days when doctors “Aneesh5 Ravishankar” and “SRN051” are taking appointments

SELECT name,day

FROM doctor_available

inner join doctor on doctor.DID=doctor_available.DID

WHERE name like "Aneesh5 Ravishankar"

UNION

SELECT name,day

FROM doctor_available

inner join doctor on doctor.DID=doctor_available.DID

WHERE name like "SRN051";


Apollo Online Appointment System

HOME

name	day
Aneesh5 Ravishankar	Monday
Aneesh5 Ravishankar	Tuesday
Aneesh5 Ravishankar	Wednesday
Aneesh5 Ravishankar	Thursday
Aneesh5 Ravishankar	Friday
Aneesh5 Ravishankar	Saturday
SRN051	Monday
SRN051	Tuesday
SRN051	Wednesday



CID	DID	day	starttime	endtime
10	102	Monday	06:08:00	07:09:00
10	102	Tuesday	06:08:00	07:09:00
10	102	Wednesday	06:08:00	07:09:00
10	102	Thursday	06:08:00	07:09:00
10	102	Friday	06:08:00	07:09:00
10	102	Saturday	06:08:00	07:09:00
109	108	Monday	06:06:00	17:30:00
109	108	Tuesday	06:06:00	17:30:00
109	108	Wednesday	06:06:00	17:30:00
109	108	Tuesday	02:10:00	20:48:00
109	108	Wednesday	02:10:00	20:48:00
5	158	Monday	23:29:00	23:29:00
5	158	Tuesday	23:29:00	23:29:00
5	158	Wednesday	23:29:00	23:29:00
104	154	Monday	22:30:00	23:30:00
104	154	Tuesday	22:30:00	23:30:00
104	154	Wednesday	22:30:00	23:30:00
106	156	Monday	23:30:00	23:54:00
106	156	Tuesday	23:30:00	23:54:00
106	156	Wednesday	23:30:00	23:54:00
106	156	Thursday	23:30:00	23:54:00
106	156	Friday	23:30:00	23:54:00
106	156	Saturday	23:30:00	23:54:00

		DID	name	gender	dob	experience	specialisation	contact	address	region	username	password
<input type="checkbox"/>	Click the drop-down arrow to toggle column's visibility.	102	Aneesh Ravishankar	male	2002-04-12	10	NeuroSurgeon	9663170599	blah blah	bangalore	PES1UG20CS051	hi123
<input type="checkbox"/>	Edit Copy Delete	103	Aneesh R	male	2002-04-12	10	NeuroSurgeon	9663170598	seashadripuram	bangalore	PES1UG20CS050	hi123
<input type="checkbox"/>	Edit Copy Delete	104	PES	male	2002-04-12	8	Nutritionist	9663170597	jayanagar	mysore	PES1UG20CS049	hi123
<input type="checkbox"/>	Edit Copy Delete	105	SRN055	male	2002-04-12	10	Heart Specialist	9663170598	NLO	mysore	PES1UG20CS048	hi123
<input type="checkbox"/>	Edit Copy Delete	106	randomval	male	2002-04-12	10	Dentist	9663170598	mallechwaram	bangalore	PES1UG20CS058	hi123
<input type="checkbox"/>	Edit Copy Delete	108	SRN051	male	2008-04-12	8	General	9663170523	mallechwaram	bangalore	PES1UG20ME044	hi123
<input type="checkbox"/>	Edit Copy Delete	152	Aneesh1 Ravishankar	male	1990-04-12	10	NeuroSurgeon	9663110599	blah blah	bangalore	PES1UG20CS151	hi123
<input type="checkbox"/>	Edit Copy Delete	153	Aneesh2 Ravishankar	male	1990-04-12	11	NeuroSurgeon	9663120599	blah blah	mumbai	PES1UG20CS251	hi123
<input type="checkbox"/>	Edit Copy Delete	154	Aneesh3 Ravishankar	male	1990-04-12	12	NeuroSurgeon	9663130599	blah blah	mumbai	PES1UG20CS351	hi123
<input type="checkbox"/>	Edit Copy Delete	155	Aneesh4 Ravishankar	male	1990-04-12	13	NeuroSurgeon	9663140599	blah blah	mumbai	PES1UG20CS451	hi123
<input type="checkbox"/>	Edit Copy Delete	156	Aneesh5 Ravishankar	male	1990-04-12	14	NeuroSurgeon	9663150599	blah blah	delhi	PES1UG20CS551	hi123
<input type="checkbox"/>	Edit Copy Delete	157	Aneesh6 Ravishankar	male	1990-04-12	15	NeuroSurgeon	9663160599	blah blah	delhi	PES1UG20CS651	hi123
<input type="checkbox"/>	Edit Copy Delete	158	Aneesh7 Ravishankar	male	1990-04-12	16	NeuroSurgeon	9663180599	blah blah	mysore	PES1UG20CS751	hi123
<input type="checkbox"/>	Edit Copy Delete	159	Aneesh8 Ravishankar	male	1990-04-12	10	NeuroSurgeon	9663190599	blah blah	mysore	PES1UG20CS851	hi123

Functions and Procedures

As we have seen in the documentation above, there are a lot of cases when the system uses an important user defined function, which is `age_doctor`, the code for which has been provided below

```
CREATE DEFINER=`root`@`localhost` FUNCTION `age_doctor` (`DOB` DATE)
RETURNS INT(11) BEGIN
```

```
DECLARE age int;
```

```
set age=datediff(CURRENT_DATE,DOB);
```

```
set age=floor(age/365);
```

```
RETURN age;
```

```
END$$
```

This takes the input as Date of birth and returns age of the doctor in years using the `datediff` function.

Furthermore, this function is also used in creating the procedure `valid_experience`, the code for which is provided below:

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `valid_experience` (IN
`DOB` DATE, IN `exp` INT, OUT `msg` VARCHAR(30)) BEGIN
```

```
DECLARE age int;
```

```
declare startage int;
```

```
set age= age_doctor(DOB);
```

```
set startage=age-exp;
```

```
IF startage<20 THEN
```

```

set msg= 'Invalid exp entered';

ELSE

if exp>5 THEN

set msg='The doctor is experienced';

ELSE

set msg='the doctor is inexperienced';

end if;

END IF;

END$$

```

First, it checks whether the experience entered is actually valid or not. This is done by taking the entered experience and subtracting it with the doctor's current age. If this age is lesser than 20 then it means the doctor is lying about his experience. If the doctor passes this test, then his experience is assessed. If he has an experience of more than 5 years, the message will output that the doctor is experienced, else it'll output that the doctor is inexperienced.

```

CALL valid_experience(1990-04-10,10,@M);|
SELECT @M;

```

✓ Showing rows 0 - 0 (1 total, Query took 0.0001 seconds.)

[SELECT @M;](#)

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 Filter rows:

Extra options

[@M](#)

The doctor is experienced

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

[CALL](#) valid_experience('2005-04-04',10,[@M](#));

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ⓘ

✓ Showing rows 0 - 0 (1 total, Query took 0.0001 seconds.)

[SELECT @M;](#)

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 Filter rows:

Extra options

[@M](#)

Invalid exp entered

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

[CALL](#) valid_experience('1990-04-04',4,[@M](#));

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ⓘ

✓ Showing rows 0 - 0 (1 total, Query took 0.0001 seconds.)

[SELECT @M;](#)

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 Filter rows:

Extra options

[@M](#)

the doctor is inexperienced

Triggers and cursors:

Cursors:

Cursor has been used in a procedure where we convert the city of the branch to uppercase and return it.

```
--  
CREATE DEFINER=`root`@`localhost` PROCEDURE `normalizeregion`() begin  
  DECLARE finished int default 0;  
  declare city1 varchar(50) default "";  
  DECLARE city_list varchar(200) default "";  
  DECLARE regcursor CURSOR FOR SELECT city from branch;  
  DECLARE CONTINUE HANDLER For NOT FOUND SET finished = 1;  
  open regcursor;  
  start_loop:LOOP  
  FETCH regcursor into city1;  
  if finished = 1 THEN  
  LEAVE start_loop;  
  END IF;  
  SET city_list = CONCAT(city_list," ",UPPER(city1));  
  END LOOP start_loop;  
  CLOSE regcursor;  
  SELECT city_list;  
END$$
```



city_list
, BANGALORE, MYSORE, BANGALORE, BANGALORE, MUMBAI, MUMBAI, DELHI, DELHI, BANGALORE

Triggers:

There are a number of triggers in this:

Triggers `booking`

--

DELIMITER \$\$

```
CREATE TRIGGER `cancel_book` AFTER UPDATE ON `booking` FOR EACH ROW if  
(new.status like 'Cancelled by Patient')
```

```
then
```

```
INSERT into
```

```
cancelled_by_patient(username,Fname,gender,CenterID,DID,DOV,DateOfBooking)
```

```
VALUES (old.username,old.Fname,old.gender,old.cid,old.did,old.dov,old.timestamp);
```

```
ELSE
```

```
INSERT into
```

```
cancelled_by_admin(username,Fname,gender,CenterID,DID,DOV,DateOfBooking)
```

```
VALUES (old.username,old.Fname,old.gender,old.cid,old.did,old.dov,old.timestamp);
```

```
end if
```

```
$$
```

```
DELIMITER ;
```

The trigger above inserts into cancelled_by_patient if the patient cancels the appointment and inserts into cancelled_by_admin if the doctor leaves the hospital

Triggers `branch`

```
--
```

```
DELIMITER $$
```

```
CREATE TRIGGER `deletedbranch` AFTER DELETE ON `branch` FOR EACH ROW  
delete from doctor_available where doctor_available.CID=old.cid
```

```
$$
```

```
DELIMITER ;
```

This trigger updates the doctor_available table upon closing of the branch. We assume that the branch deals with all its current appointments and then closes so we don't update the booking

Triggers `doctor`

```
--
```

```
DELIMITER $$
```

```
CREATE TRIGGER `admin_cancel` AFTER DELETE ON `doctor` FOR EACH ROW  
UPDATE booking set `Status`="Cancelled by admin" where booking.DID=old.DID
```

```
$$
```

```
DELIMITER ;
```

The possibility of a doctor leaving the hospital before dealing with his appoints is way higher than a branch shutting down without dealing with its current appointments so we have to look into this matter with greater depth. First, we set the status of booking as cancelled by admin which will trigger cancel_book

DELIMITER \$\$

```
CREATE TRIGGER `deleteavail` AFTER DELETE ON `doctor` FOR EACH ROW delete
from doctor_available where doctor_available.DID=old.did
```

\$\$

DELIMITER ;

Then we update the available doctors.

DELIMITER \$\$

```
CREATE TRIGGER `deletedDoc` AFTER DELETE ON `doctor` FOR EACH ROW
INSERT INTO deleted_doctors(DID,name,gender,dob,experience,specialisation,contact
,address,username,password,region) VALUES
(old.DID,old.name,old.gender,old.dob,old.experience,old.specialisation,
old.contact,old.address,old.username,old.password,old.region)
```

\$\$

DELIMITER ;

Finally we add the doctor to a list of deleted doctors.

Before deletion

	DID	name	gender	dob	experience	specialisation	contact	address	region	username	password
<input type="checkbox"/>	102	Aneesh Ravishankar	male	2002-04-12	10	NeuroSurgeon	9663170599	blah blah	bangalore	PES1UG20CS051	hi123
<input type="checkbox"/>	103	Aneesh R	male	2002-04-12	10	NeuroSurgeon	9663170598	seshadripuram	bangalore	PES1UG20CS050	hi123
<input type="checkbox"/>	104	PES	male	2002-04-12	8	Nutritionist	9663170597	jayanagar	mysore	PES1UG20CS049	hi123
<input type="checkbox"/>	105	SRN055	male	2002-04-12	10	Heart Specialist	9663170598	NLO	mysore	PES1UG20CS048	hi123
<input type="checkbox"/>	106	randomval	male	2002-04-12	10	Dentist	9663170598	mallechwaram	bangalore	PES1UG20CS058	hi123
<input type="checkbox"/>	108	SRN051	male	2008-04-12	8	General	9663170523	mallechwaram	bangalore	PES1UG20ME044	hi123
<input type="checkbox"/>	152	Aneesh1 Ravishankar	male	1990-04-12	10	NeuroSurgeon	9663110599	blah blah	bangalore	PES1UG20CS151	hi123
<input type="checkbox"/>	153	Aneesh2 Ravishankar	male	1990-04-12	11	NeuroSurgeon	9663120599	blah blah	mumbai	PES1UG20CS251	hi123
<input type="checkbox"/>	154	Aneesh3 Ravishankar	male	1990-04-12	12	NeuroSurgeon	9663130599	blah blah	mumbai	PES1UG20CS351	hi123
<input type="checkbox"/>	155	Aneesh4 Ravishankar	male	1990-04-12	13	NeuroSurgeon	9663140599	blah blah	mumbai	PES1UG20CS451	hi123
<input type="checkbox"/>	156	Aneesh5 Ravishankar	male	1990-04-12	14	NeuroSurgeon	9663150599	blah blah	delhi	PES1UG20CS551	hi123
<input type="checkbox"/>	157	Aneesh6 Ravishankar	male	1990-04-12	15	NeuroSurgeon	9663160599	blah blah	delhi	PES1UG20CS651	hi123
<input type="checkbox"/>	158	Aneesh7 Ravishankar	male	1990-04-12	16	NeuroSurgeon	9663180599	blah blah	mysore	PES1UG20CS751	hi123
<input type="checkbox"/>	159	Aneesh8 Ravishankar	male	1990-04-12	10	NeuroSurgeon	9663190599	blah blah	mysore	PES1UG20CS851	hi123

username	Fname	gender	CID	DID	DOV	Timestamp	Status
PES1UG20CS051	Aneesh	male	5	102	2022-11-30	2022-11-27 07:28:01	Cancelled by Patient
PES1UG20CS051	Aneesh	male	5	102	2022-11-30	2022-11-27 12:41:23	Booking Registered.Wait for the update
PES1UG20ME004	Aneesh	male	5	158	2022-11-29	2022-11-27 17:17:15	Booking Registered.Wait for the update
PES1UG20ME004	Aneesh	male	5	158	2022-11-30	2022-11-27 17:18:42	Booking Registered.Wait for the update


username	Fname	gender	CenterID	DID	DOV	DateOfBooking
PES1UG20CS051	Aneesh	male	10	102	2022-11-30	2022-11-27 07:28:01

```
SELECT * FROM `cancelled_by_admin`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

username	Fname	gender	CenterID	DID	DOV	DateOfBooking
----------	-------	--------	----------	-----	-----	---------------

Query results operations

 Create view

CID	DID	day	starttime	endtime
10	102	Monday	06:08:00	07:09:00
10	102	Tuesday	06:08:00	07:09:00
10	102	Wednesday	06:08:00	07:09:00
10	102	Thursday	06:08:00	07:09:00
10	102	Friday	06:08:00	07:09:00
10	102	Saturday	06:08:00	07:09:00
109	108	Monday	06:06:00	17:30:00
109	108	Tuesday	06:06:00	17:30:00
109	108	Wednesday	06:06:00	17:30:00
109	108	Tuesday	02:10:00	20:48:00
109	108	Wednesday	02:10:00	20:48:00
5	158	Monday	23:29:00	23:29:00
5	158	Tuesday	23:29:00	23:29:00
5	158	Wednesday	23:29:00	23:29:00
104	154	Monday	22:30:00	23:30:00
104	154	Tuesday	22:30:00	23:30:00
104	154	Wednesday	22:30:00	23:30:00
106	156	Monday	23:30:00	23:54:00
106	156	Tuesday	23:30:00	23:54:00
106	156	Wednesday	23:30:00	23:54:00
106	156	Thursday	23:30:00	23:54:00
106	156	Friday	23:30:00	23:54:00
106	156	Saturday	23:30:00	23:54:00

After deletion of CID 156

CID	DID	day	starttime	endtime
10	102	Monday	06:08:00	07:09:00
10	102	Tuesday	06:08:00	07:09:00
10	102	Wednesday	06:08:00	07:09:00
10	102	Thursday	06:08:00	07:09:00
10	102	Friday	06:08:00	07:09:00
10	102	Saturday	06:08:00	07:09:00
109	108	Monday	06:06:00	17:30:00
109	108	Tuesday	06:06:00	17:30:00
109	108	Wednesday	06:06:00	17:30:00
109	108	Tuesday	02:10:00	20:48:00
109	108	Wednesday	02:10:00	20:48:00
104	154	Monday	22:30:00	23:30:00
104	154	Tuesday	22:30:00	23:30:00
104	154	Wednesday	22:30:00	23:30:00
106	156	Monday	23:30:00	23:54:00
106	156	Tuesday	23:30:00	23:54:00
106	156	Wednesday	23:30:00	23:54:00
106	156	Thursday	23:30:00	23:54:00
106	156	Friday	23:30:00	23:54:00
106	156	Saturday	23:30:00	23:54:00

username	Fname	gender	CID	DID	DOV	Timestamp	Status
PES1UG20ME004	Anesh	male	10	102	2022-11-30	2022-11-27 07:28:01	Cancelled by Patient
PES1UG20ME004	Anesh	male	10	102	2022-11-30	2022-11-27 12:41:23	Booking Registered.Wait for the update
PES1UG20ME004	Anesh	male	106	156	2022-11-29	2022-11-27 17:17:15	Booking Registered.Wait for the update
PES1UG20ME004	Anesh	male	5	158	2022-11-30	2022-11-27 17:18:42	Cancelled by admin

- Click to sort results by this column.
 - Shift+Click to add this column to ORDER BY clause or to toggle ASC/DESC.
 - Ctrl+Click or Alt+Click (Mac: Shift+Option+Click) to remove column from ORDER BY clause

```
SELECT * FROM `cancelled_by_admin`
```

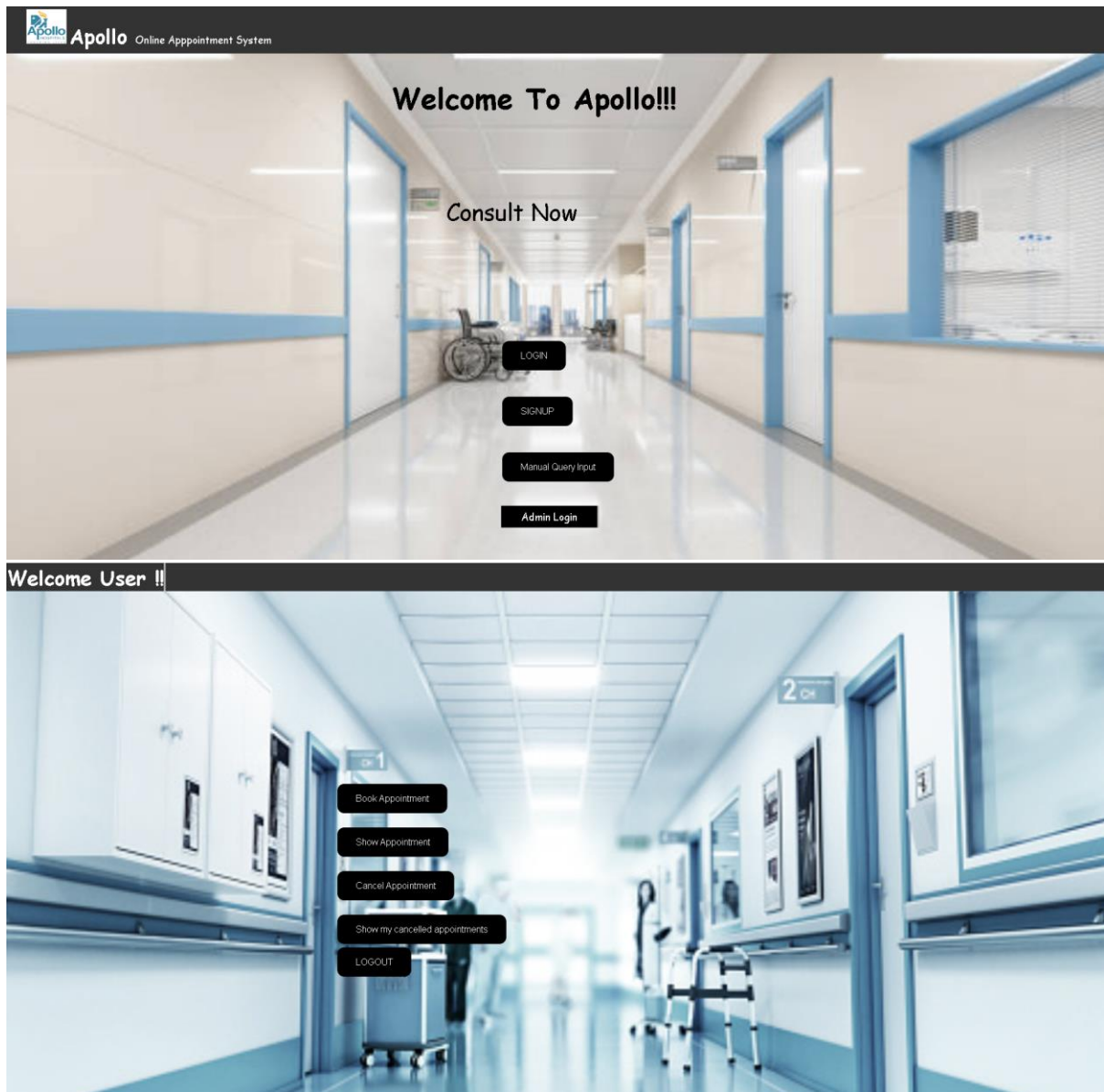
☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]


☐ Show all | Number of rows: Filter rows:

Extra options

username	Fname	gender	CenterID	DID	DOV	DateOfBooking
PES1UG20ME004	Aneesh	male	5	158	2022-11-30	2022-11-27 17:18:42

Front End Pictures:



 Apollo Online Appointment System

BACKHOME

Name:

Enter full name of patient

Gender:
☐ Female ☐ Male ☐ Other

City:

Select City

Branch:

Select Branch


Doctor:

Select Doctor

Date of Visit:


dd-mm-2022

Submit

 Apollo Online Appointment System

HOMEBACK

Appointment-Date	Name	Branch	Doctor	Status	Booked-On
2022-11-30	Aneesh	apollo sesh branch	Aneesh Ravishankar	Booking Registered.Wait for the update	2022-11-27 12:41:23


 Apollo Online Appointment System

BACK

Select your Appointment to Cancel:-

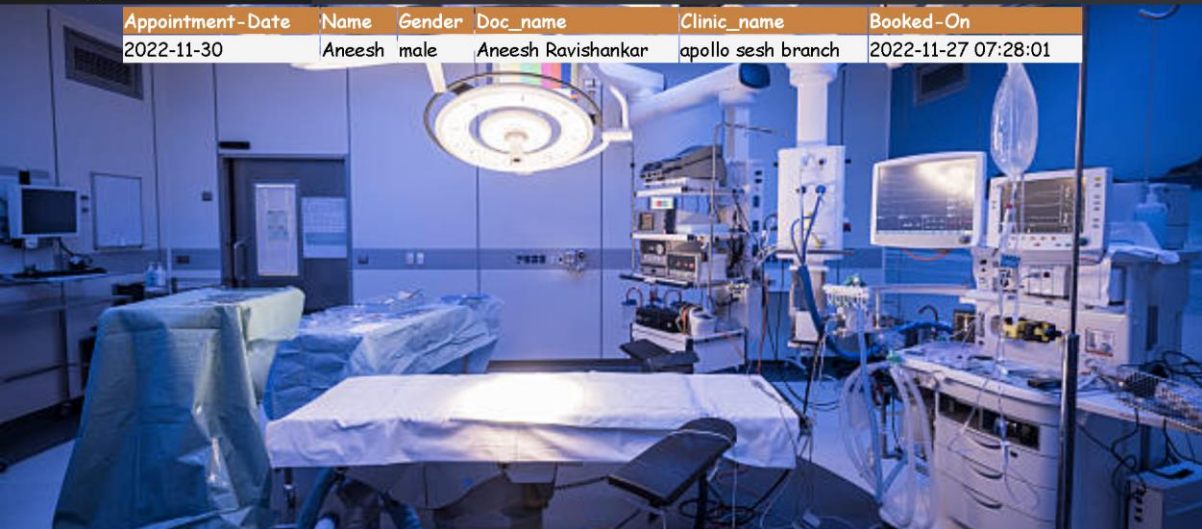
Select My Appointment


Submit


Apollo Online Appointment System


HOME | BACK

Appointment-Date	Name	Gender	Doc_name	Clinic_name	Booked-On
2022-11-30	Aneesh	male	Aneesh Ravishankar	apollo sesh branch	2022-11-27 07:28:01




Apollo Online Appointment System

HOME



Enter Name:
Enter your full name

Enter Date of birth:
dd-mm-yyyy

Gender:
☒ Male
☐ Female
☐ Other

Contact number:
Enter your number

Enter Username:
Enter your username


Enter email:
Enter email-id


Enter Password:
Enter the password

Confirm Password:
Enter password again

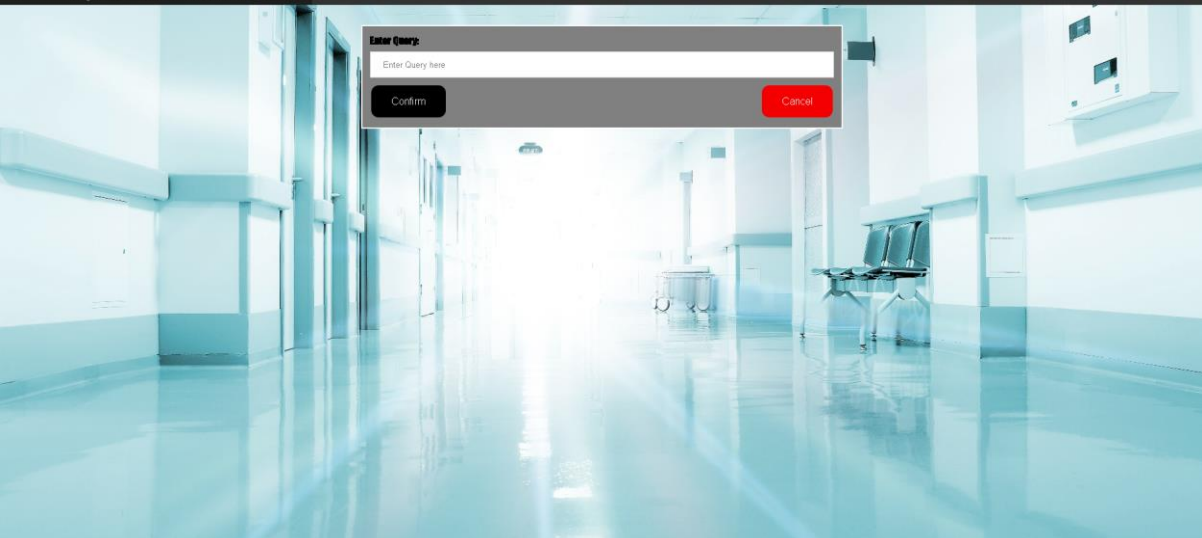
By Signup you accept to our terms and conditions

Sign Up Cancel



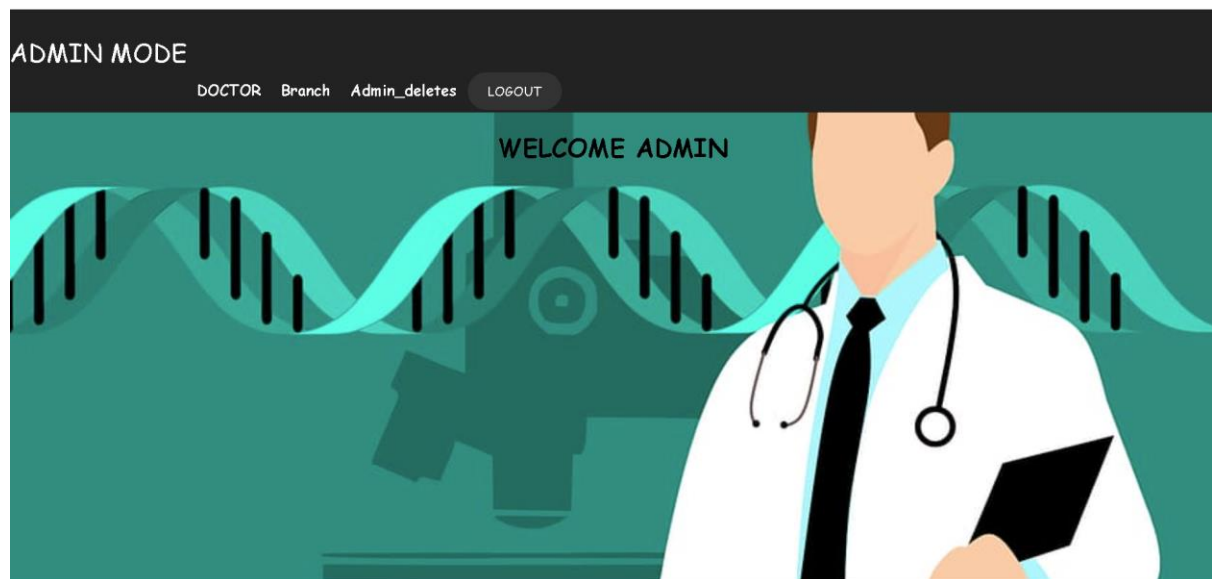

Apollo Online Appointment System

HOME



Enter Query:
Enter Query here

Confirm Cancel



ADMIN

DOCTOR Branch LOGOUT

ADD DOCTOR

DID:

Name: Gender ☐ Female ☐ Male

DOB: Experience: Specialisation:

Contact: Address:

Region: Username: Password:

ADMIN MODE

DOCTOR Branch LOGOUT

DELETE DOCTOR

Enter DID:

-----OR-----

Select Name:

ADMIN MODE

DOCTOR Branch

LOGOUT

ADD Branch

CID: Name: Contact:

Address: City:

ADMIN MODE

DOCTOR Branch

LOGOUT

ASSIGN DOCTOR TO A Branch

City:

Branch:

Doctor:

Available Days
Monday: ☐
Tuesday: ☐
Wednesday: ☐
Thursday: ☐
Friday: ☐
Saturday: ☐

Availability(24 hour Format):
From:
To:

ADMIN MODE

DOCTOR Branch LOGOUT

REMOVE DOCTOR FROM A Branch

City:

Select City

Branch:

Select Branch

Doctor & Time:

Select Day & Time

Submit



Apollo Online Appointment System

HOME

Doctor-ID	Name	gender	Date-of-birth	experience	specialization	contact	address	city
106	randomval	male	2002-04-12	10	Dentist	9663170598	malleswaram	bangalore
158	Aneesh7 Ravishankar	male	1990-04-12	16	Neuro Surgeon	9663180599	blah blah	mysore