

```
CREATE SCHEMA hospital;  
SET SEARCH_PATH TO hospital;
```

```
CREATE TABLE hospital_employees (  
hospital_emp_id SERIAL,  
PRIMARY KEY (hospital_emp_id)  
);
```

```
CREATE TABLE staff (  
name VARCHAR(50) NOT NULL,  
aadhaar_id NUMERIC(12,0),  
type VARCHAR(30) NOT NULL,  
dob DATE NOT NULL,  
gender CHAR(1) CHECK (gender in ('M','F','O')),  
status BOOLEAN NOT NULL,  
mobile_number BIGINT NOT NULL,  
employee_id INT NOT NULL,
```

```
PRIMARY KEY (aadhaar_id),  
FOREIGN KEY (employee_id) REFERENCES hospital_employees(hospital_emp_id)  
ON DELETE CASCADE ON UPDATE CASCADE  
);
```

```
CREATE TABLE doctor (  
aadhaar_id NUMERIC(12,0),  
name VARCHAR(50) NOT NULL,  
speciality VARCHAR(30) NOT NULL,  
office_number INT NOT NULL,  
dob DATE NOT NULL,  
gender CHAR(1) CHECK (gender in ('M','F','O')),  
status BOOLEAN NOT NULL,  
mobile_number BIGINT NOT NULL,  
employee_id INT NOT NULL,
```

```
PRIMARY KEY (aadhaar_id),  
FOREIGN KEY (employee_id) REFERENCES hospital_employees(hospital_emp_id)  
ON DELETE RESTRICT ON UPDATE CASCADE  
);
```

```
CREATE TABLE patient (  
name VARCHAR(50) NOT NULL,  
aadhaar_id NUMERIC(12,0),  
dob DATE NOT NULL,  
gender CHAR(1) CHECK (gender in ('M','F','O')),  
mobile_number BIGINT NOT NULL,  
date_of_admit DATE ,
```

```
type BOOLEAN NOT NULL,  
blood_group VARCHAR(3),  
date_of_discharge DATE,
```

```
PRIMARY KEY (aadhaar_id, date_of_admit)  
);
```

```
CREATE TABLE medicines(  
medicine_id SERIAL,  
medicine_name VARCHAR(40) NOT NULL,  
cost_per_unit DECIMAL(8,2) NOT NULL,  
amount_in_unit SMALLINT NOT NULL,  
amount_available INT NOT NULL,  
company_name VARCHAR(40) NOT NULL,
```

```
PRIMARY KEY (medicine_id)  
);
```

```
CREATE TABLE prescription (  
patient_id NUMERIC(12,0),  
date_of_admit DATE,  
doctor_aadhaar_id NUMERIC(12,0),  
medicine_id INT,  
from_date DATE,  
to_date DATE NOT NULL,  
morning_dose VARCHAR(10) NOT NULL,  
noon_dose VARCHAR(10) NOT NULL,  
night_dose VARCHAR(10) NOT NULL,
```

```
PRIMARY KEY (patient_id, doctor_aadhaar_id, medicine_id, from_date),  
FOREIGN KEY (patient_id, date_of_admit) REFERENCES patient(aadhaar_id,  
date_of_admit)  
ON DELETE RESTRICT ON UPDATE CASCADE,  
FOREIGN KEY (doctor_aadhaar_id) REFERENCES doctor(aadhaar_id)  
ON DELETE RESTRICT ON UPDATE CASCADE,  
FOREIGN KEY (medicine_id) REFERENCES medicines(medicine_id)  
ON DELETE RESTRICT ON UPDATE CASCADE  
);
```

```
CREATE TABLE bill (  
patient_id NUMERIC(12,0),  
date_of_admit DATE,  
date_time TIMESTAMP,  
medicine_charges DECIMAL(10,2) NOT NULL,  
blood_t_charges DECIMAL(10,2) NOT NULL,  
operation_charges DECIMAL(10,2) NOT NULL,  
lab_charges DECIMAL(10,2) NOT NULL,
```

service_charges DECIMAL(10,2) NOT NULL,

PRIMARY KEY (patient_id, date_time),
FOREIGN KEY (patient_id, date_of_admit) REFERENCES patient(aadhaar_id,
date_of_admit)
ON DELETE RESTRICT ON UPDATE CASCADE
);

CREATE TABLE lab_reports (
date_time TIMESTAMP,
date_of_admit DATE,
patient_id NUMERIC(12,0),
type VARCHAR(30),
lab_number SMALLINT NOT NULL,

PRIMARY KEY (date_time, patient_id, type),
FOREIGN KEY (patient_id, date_of_admit) REFERENCES patient(aadhaar_id,
date_of_admit)
ON DELETE RESTRICT ON UPDATE CASCADE
);

CREATE TABLE patient_disease (
disease VARCHAR(30),
date_of_admit DATE,
patient_id NUMERIC(12,0),

PRIMARY KEY (patient_id, disease),
FOREIGN KEY (patient_id, date_of_admit) REFERENCES patient(aadhaar_id,
date_of_admit)
ON DELETE RESTRICT ON UPDATE CASCADE
);

CREATE TABLE room (
room_no SERIAL,
number_of_beds SMALLINT NOT NULL,
number_of_beds_occupied SMALLINT NOT NULL,

PRIMARY KEY (room_no)
);

CREATE TABLE admitted_patients_ids (
room_no INT,
date_of_admit DATE,
patient_id NUMERIC(12,0),

PRIMARY KEY (patient_id, room_no),
FOREIGN KEY (patient_id, date_of_admit) REFERENCES patient(aadhaar_id,
date_of_admit)

```
ON DELETE RESTRICT ON UPDATE CASCADE,  
FOREIGN KEY (room_no) REFERENCES room(room_no)  
ON DELETE RESTRICT ON UPDATE CASCADE  
);
```

```
CREATE TABLE blood_bank (  
date DATE,  
A_pos_ml INT NOT NULL,  
A_neg_ml INT NOT NULL,  
B_pos_ml INT NOT NULL,  
B_neg_ml INT NOT NULL,  
O_pos_ml INT NOT NULL,  
O_neg_ml INT NOT NULL,  
AB_pos_ml INT NOT NULL,  
AB_neg_ml INT NOT NULL,
```

```
PRIMARY KEY (date)  
);
```

```
CREATE TABLE blood_transfusion (  
date DATE,  
time TIME,  
date_of_admit DATE,  
patient_id NUMERIC(12,0),  
blood_gp VARCHAR(3) NOT NULL,  
amount_ml INT NOT NULL,
```

```
PRIMARY KEY (date, time, patient_id),  
FOREIGN KEY (patient_id, date_of_admit) REFERENCES patient(aadhaar_id,  
date_of_admit)  
ON DELETE RESTRICT ON UPDATE CASCADE,  
FOREIGN KEY (date) REFERENCES blood_bank(date)  
ON DELETE RESTRICT ON UPDATE CASCADE  
);
```

```
CREATE TABLE operation (  
operation_id SERIAL,  
date_of_admit DATE,  
patient_id NUMERIC(12,0) NOT NULL,  
begin_date_time TIMESTAMP NOT NULL,  
end_date_time TIMESTAMP NOT NULL,  
type VARCHAR(20) NOT NULL,
```

```
PRIMARY KEY (operation_id),  
FOREIGN KEY (patient_id, date_of_admit) REFERENCES patient(aadhaar_id,  
date_of_admit)  
ON DELETE RESTRICT ON UPDATE CASCADE  
);
```

```
CREATE TABLE operation_by (  
operation_id INT,  
doctor_aadhaar_id NUMERIC(12,0),  
  
PRIMARY KEY (operation_id, doctor_aadhaar_id),  
FOREIGN KEY (doctor_aadhaar_id) REFERENCES doctor(aadhaar_id)  
ON DELETE RESTRICT ON UPDATE CASCADE,  
FOREIGN KEY (operation_id) REFERENCES operation(operation_id)  
ON DELETE RESTRICT ON UPDATE CASCADE  
);
```