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

CREATE TABLE hospital_employees (
aadhar_id NUMERIC(12,0),

PRIMARY KEY (aadhar_id)
);

CREATE TABLE staff (
name VARCHAR(50) NOT NULL,
aadhar_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,

PRIMARY KEY (aadhar_id),
FOREIGN KEY (aadhar_id) REFERENCES hospital_employees(aadhar_id)
ON  DELETE CASCADE ON  UPDATE CASCADE
);

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

PRIMARY KEY (aadhar_id),
FOREIGN KEY (aadhar_id) REFERENCES hospital_employees(aadhar_id)
ON DELETE RESTRICT ON UPDATE CASCADE
 );

CREATE TABLE patient_details(
aadhar_id NUMERIC(12,0),
dob DATE NOT NULL,
gender CHAR(1) CHECK (gender in ('M','F','O')),
name VARCHAR(50) NOT NULL,
blood_group VARCHAR(3),

PRIMARY KEY (aadhar_id)
);

CREATE TABLE patient_records (
aadhar_id NUMERIC(12,0),
mobile_number BIGINT NOT NULL,
date_of_admit DATE ,
type BOOLEAN NOT NULL,
date_of_discharge DATE,

PRIMARY KEY (aadhar_id, date_of_admit),
FOREIGN KEY (aadhar_id) REFERENCES patient_details(aadhar_id)
ON DELETE RESTRICT ON UPDATE CASCADE
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);

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),
doctor_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_id, medicine_id, from_date),
FOREIGN KEY (patient_id) REFERENCES patient_details(aadhar_id)
ON DELETE RESTRICT ON UPDATE CASCADE,
FOREIGN KEY (doctor_id) REFERENCES hospital_employees(aadhar_id)
ON DELETE RESTRICT ON UPDATE CASCADE,
FOREIGN KEY (medicine_id) REFERENCES medicines(medicine_id)
```

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ON DELETE RESTRICT ON UPDATE CASCADE
);

CREATE TABLE bill (
patient_id NUMERIC(12,0),
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) REFERENCES patient_details(aadhar_id)
ON DELETE RESTRICT ON UPDATE CASCADE
);

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

PRIMARY KEY (date_time, patient_id, type),
FOREIGN KEY (patient_id) REFERENCES patient_details(aadhar_id)
ON DELETE RESTRICT ON UPDATE CASCADE
);

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

PRIMARY KEY (patient_id, disease,date_of_admit),
FOREIGN KEY (patient_id,date_of_admit) REFERENCES patient_records(aadhar_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,date_of_admit),
FOREIGN KEY (patient_id,date_of_admit) REFERENCES patient_records(aadhar_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,
patient_id NUMERIC(12,0),
amount_ml INT NOT NULL,

PRIMARY KEY (date, time, patient_id),
FOREIGN KEY (patient_id) REFERENCES patient_details(aadhar_id)
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,
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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) REFERENCES patient_details(aadhar_id)
ON DELETE RESTRICT ON UPDATE CASCADE
);

CREATE TABLE operation_by (
operation_id INT,
doctor_id NUMERIC(12,0),

PRIMARY KEY (operation_id, doctor_id),
FOREIGN KEY (doctor_id) REFERENCES hospital_employees(aadhar_id)
ON DELETE RESTRICT ON UPDATE CASCADE,
FOREIGN KEY (operation_id) REFERENCES operation(operation_id)
ON DELETE RESTRICT ON UPDATE CASCADE
);
```