```sql
create schema hospital

set search_path to hospital

CREATE TABLE patient_general_details (

patient_id DECIMAL(9,0),

fname VARCHAR(20) NOT NULL,

minit CHAR(1),

lname VARCHAR(20),

sex CHAR(1),

contact_no varchar(15) NOT NULL,

bdate DATE,

relative_contact_no varchar(15),

address VARCHAR(30),

PRIMARY KEY (patient_id)

);

CREATE TABLE patient_medical_conditions (

patient_id DECIMAL(9,0),

medical_history VARCHAR(50),

primary key(patient_id,medical_history),

foreign key(patient_id) references patient_general_details(patient_id)

ON DELETE SET DEFAULT ON UPDATE CASCADE

);

CREATE TABLE employee (

emp_id DECIMAL(9,0),

emp_type varchar(3) NOT NULL,

fname VARCHAR(20) NOT NULL,

minit CHAR(1),

lname VARCHAR(20),

bdate DATE,

address VARCHAR(30) NOT NULL,

sex CHAR(1),

contact_no varchar(15) NOT NULL,
```

```sql
relative_contact_no varchar(15),

date_of_join DATE NOT NULL,

date_of_resign DATE ,

PRIMARY KEY (emp_id)

);

CREATE TABLE room_type

(

room_type varchar(30),

room_abbrev varchar(4),

charge_per_bed int NOT NULL,

PRIMARY KEY (room_type)

);

create type room_no_type as enum('GW001',

'SSP002',

'SP003',

'DX004',

'SSP005',

'SU101',

'SSP102',

'SSP103',

'SP104',

'DX105',

'ICU201',

'OT202',

'SU203',

'SSP204',

'OT301',

'OT302',

'SP303',

'GW304',

'DX305',
```

```sql
'GW401',

'SU402',

'OT403',

'DX404',

'SSP405' );

CREATE TABLE room_details(

room_no room_no_type,

room_type varchar(5) NOT NULL,

capacity int NOT NULL,

no_of_beds_occupied int,

PRIMARY KEY (room_no),

Foreign key (room_type) references room_type(room_abbrev)

ON DELETE SET DEFAULT ON UPDATE CASCADE

);

CREATE TABLE department (

dep_no SMALLINT,

dep_name VARCHAR(25) NOT NULL,

dep_head_id DECIMAL(9,0),

PRIMARY KEY (dep_no)

);

Create table doctors

(

emp_id DECIMAL(9,0),

qualification varchar(30),

dep_no smallint NOT NULL,

primary key(emp_id),

foreign key (emp_id) references employee(emp_id),

foreign key (dep_no) references department(dep_no)

ON DELETE SET DEFAULT ON UPDATE CASCADE

);
```

```sql
ALTER table department add FOREIGN KEY (dep_head_id) REFERENCES

doctors(emp_id);

Create table medical_equipment_details

(

equipment_id int,

dep_no smallint NOT NULL,

name varchar(50) NOT NULL,

cost int NOT NULL,

type char(1) NOT NULL,

stock int,

reorderlevel int,

primary key(equipment_id,dep_no)

foreign key (dep_no) references department(dep_no)

);

create table opd

(

emp_id DECIMAL(9,0),

consulting_fees int,

primary key(emp_id),

foreign key (emp_id) references doctors(emp_id)

on delete cascade on update cascade

);

create table opd_availability

(

emp_id DECIMAL(9,0),

days char(3) ,

entry_time time ,

exit_time time,

primary key(emp_id,days),

foreign key (emp_id) references opd(emp_id)
```

```sql
on delete cascade on update cascade
);
create table opd_attendance
(
emp_id DECIMAL(9,0),
dates date ,
in_time time,
out_time time,
primary key(emp_id,dates),
foreign key (emp_id) references opd(emp_id)
on delete cascade on update cascade
);
create table specialised_doctor
(
emp_id DECIMAL(9,0),
charge_per_visit int,
primary key(emp_id),
foreign key (emp_id) references doctors(emp_id)
on delete cascade on update cascade
);
create table specialised_doctor_visit
(
emp_id DECIMAL(9,0),
dates date,
in_time time,
out_time time,
primary key(emp_id,dates),
foreign key (emp_id) references specialised_doctor(emp_id)
on delete cascade on update cascade
);
```

```sql
create table general_staff
(
emp_id DECIMAL(9,0),
charge_per_hour int not null,
primary key(emp_id),
foreign key (emp_id) references employee(emp_id)
on delete cascade on update cascade
);
create table attendance_log_general
(
emp_id DECIMAL(9,0),
dates date,
in_time timestamp,
out_time timestamp,
shift_type char(1),
primary key(dates,emp_id),
foreign key (emp_id) references employee(emp_id)
on delete cascade on update cascade
);
create table treatments_available
(
tid varchar(10),
did smallint not null,
treatment_name varchar(50) not null,
fees int,
primary key(tid),
foreign key (did) references department(dep_no)
on delete cascade on update cascade
);
```

```sql
create table policy_details

(

policy_No varchar(15),

policy_type varchar(30),

company_id smallint not null,

company_name varchar(30),

cashless_availability char(1),

claim_amt int,

primary key(policy_no)

);

create table patient_insurance_details

(

policy_no varchar(15),

patient_id decimal(9,0),

primary key(patient_id,policy_no),

foreign key(policy_no) references policy_details,

foreign key (patient_id) references patient_general_details(patient_id)

on delete cascade on update cascade

);

create table consultation_bill

(

case_C_no decimal(9,0),

pid DECIMAL(9,0) not null,

dr_id DECIMAL(9,0) not null,

consultation_charges int,

extra_charges int,

diagnosis varchar(30),

bill_date timestamp not null,

total_charges int not null,

primary key (case_c_no),

foreign key(pid) references patient_general_details(patient_id),
```

```sql
foreign key (dr_id) references opd(emp_id)

on update cascade on delete cascade

);

create table admitted

(

case_A_number decimal(9,0),

patient_id decimal (9,0) not null,

admit_date date not null,

discharge_date date,

room_no room_no_type not null,

primary key(case_a_number),

foreign key (patient_id) references patient_general_details(patient_id),

foreign key (room_no) references room_details(room_no)

on update cascade on delete cascade

);

create table intermediate_bill

(

case_A_no DECIMAL(9,0),

bill_id DECIMAL(9,0),

patient_id DECIMAL(9,0) not null,

bill_date date not null,

treatment_id varchar(10),

room_no room_no_type,

room_charges int,

treatment_charges int,

diagnosis varchar(35),

specialised_dr_id DECIMAL(9,0),

opd_dr_id DECIMAL(9,0),

specialised_dr_charge int,

opd_dr_charge int,

total_charge int,
```

```sql
primary key(case_A_no,bill_id),

foreign key(case_A_no) references admitted(case_A_number),

foreign key(patient_id) references patient_general_details(patient_id),

foreign key(treatment_id) references treatments_available(tid),

foreign key(room_no) references room_details(room_no),

foreign key(specialised_dr_id) references specialised_doctor(emp_id),

foreign key(opd_dr_id) references opd(emp_id)

on delete cascade on update cascade

);

create table final_bill

(

case_A_no decimal(9,0),

patient_id DECIMAL(9,0) not null,

policy_no varchar(30),

insurance_status char(1),

claim_per_passed  decimal(9,2),

claim_amt_passed decimal(9,2),

total_charges int,

amt_payable decimal(9,2),

primary key(case_A_no),

foreign key(patient_id) references patient_general_details(patient_id),

foreign key(policy_no) references policy_details(policy_no),

foreign key(case_A_no) references admitted(case_A_number)

on delete cascade on update cascade

);

create table discharge_summary

(

case_A_no decimal(9,0),

pid decimal(9,0),

Diagnosis_details varchar(100),

patient_status char(20),
```

primary key(case_A_no),

foreign key (case_A_no) references Admitted (case_A_number),

foreign key (pid) references patient_general_details(patient_id)

on delete cascade on update cascade

)