design hospital database with at least 3 entities and relationships between them. draw suitable er/eer diagram for the system and implement using ddl statements.

```
create table patient (
  patientid int primary key ,
  name varchar(255) not null,
  dateofbirth date,
  address varchar(255),
  phonenumber varchar(20),
  insuranceid varchar(20)
);

insert into patient (patientid, name, dateofbirth, address, phonenumber, insuranceid) values
(1, 'john doe', '1990-05-15', '123 main st', '555-1234', 'abc123'),
(2, 'jane smith', '1985-10-20', '456 elm st', '555-5678', 'def456'),
(3, 'alice johnson', '1978-07-08', '789 oak st', '555-9012', 'ghi789');

create table doctor (
  doctorid int primary key ,
  name varchar(255) not null,
  specialization varchar(255),
  department varchar(255)
);

insert into doctor (doctorid, name, specialization, department) values
(101, 'dr. smith', 'cardiology', 'cardiology department'),
(102, 'dr. johnson', 'pediatrics', 'pediatrics department'),
(103, 'dr. brown', 'orthopedics', 'orthopedics department');


create table appointment (
  appointmentid int primary key ,
  patientid int not null,
  doctorid int not null,
  appointmentdate date,
  appointmenttime time,
  foreign key (patientid) references patient(patientid),
  foreign key (doctorid) references doctor(doctorid)
);

insert into appointment (appointmentid, patientid, doctorid, appointmentdate, appointmenttime) values
(201, 1, 101, '2024-05-10', '10:00:00'),
(202, 2, 102, '2024-05-12', '11:00:00'),
(203, 3, 103, '2024-05-15', '14:00:00'),
(204, 1, 102, '2024-05-18', '09:00:00'),
(205, 2, 101, '2024-05-20', '13:00:00');
```