Database Quiz 5

10185101210 陈俊潼

(1). The ER diagram is as follows:

```
┌──────────────────────┐
│       section        │
├────┬─────────────────┤
│ PK │ section_id      │
├────┼─────────────────┤
│    │ name            │
│    │ address         │
│    │ phone           │
└────┴─────────────────┘
```

room_section

```
┌──────────────────────┐
│        room          │
├────┬─────────────────┤
│ PK │ room_no         │
└────┴─────────────────┘
```

doctor_section

live_in

```
┌──────────────────────┐
│       doctor         │
├────┬─────────────────┤
│ PK │ doctor_id       │
├────┼─────────────────┤
│    │ name            │
│    │ title           │
│    │ age             │
└────┴─────────────────┘
```

in_chage_of

```
┌──────────────────────┐
│       patient        │
├────┬─────────────────┤
│ PK │ patient_id      │
├────┼─────────────────┤
│    │ name            │
│    │ sex             │
└────┴─────────────────┘
```

(2).
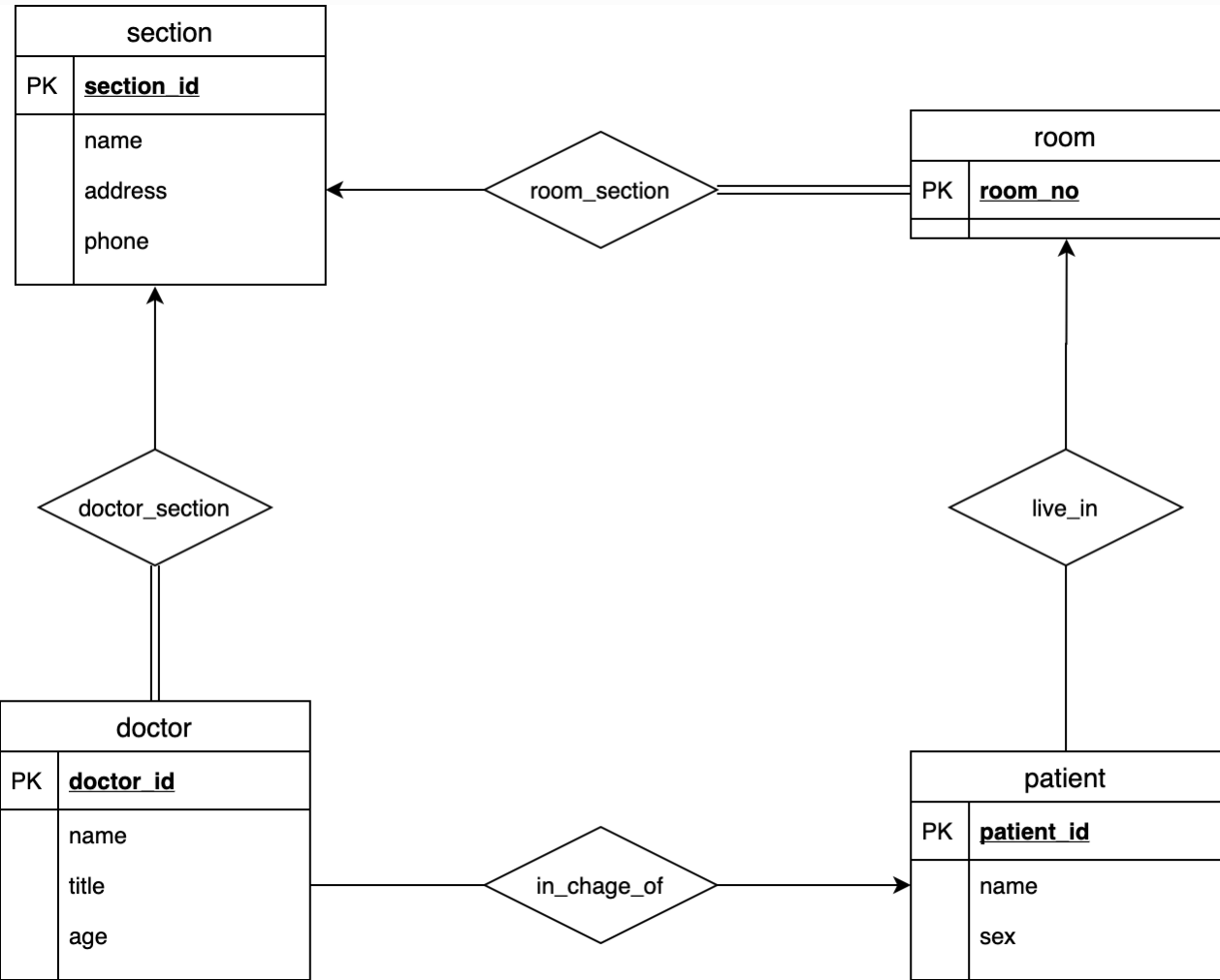
section(section_id, name, address, phone)

doctor(doctor_id, name, title, section_id, age)

room(room_no, section_id)

patient(patient_id, name, sex, doctor_id, room_id)

(3).

The primary keys are denoted underline in (2).

section: section_id

doctor: doctor_id

room: room_id

patient: patient_id