TIS1101 Database Fundamentals

Assignment 1

Title: <Clinic Management System>

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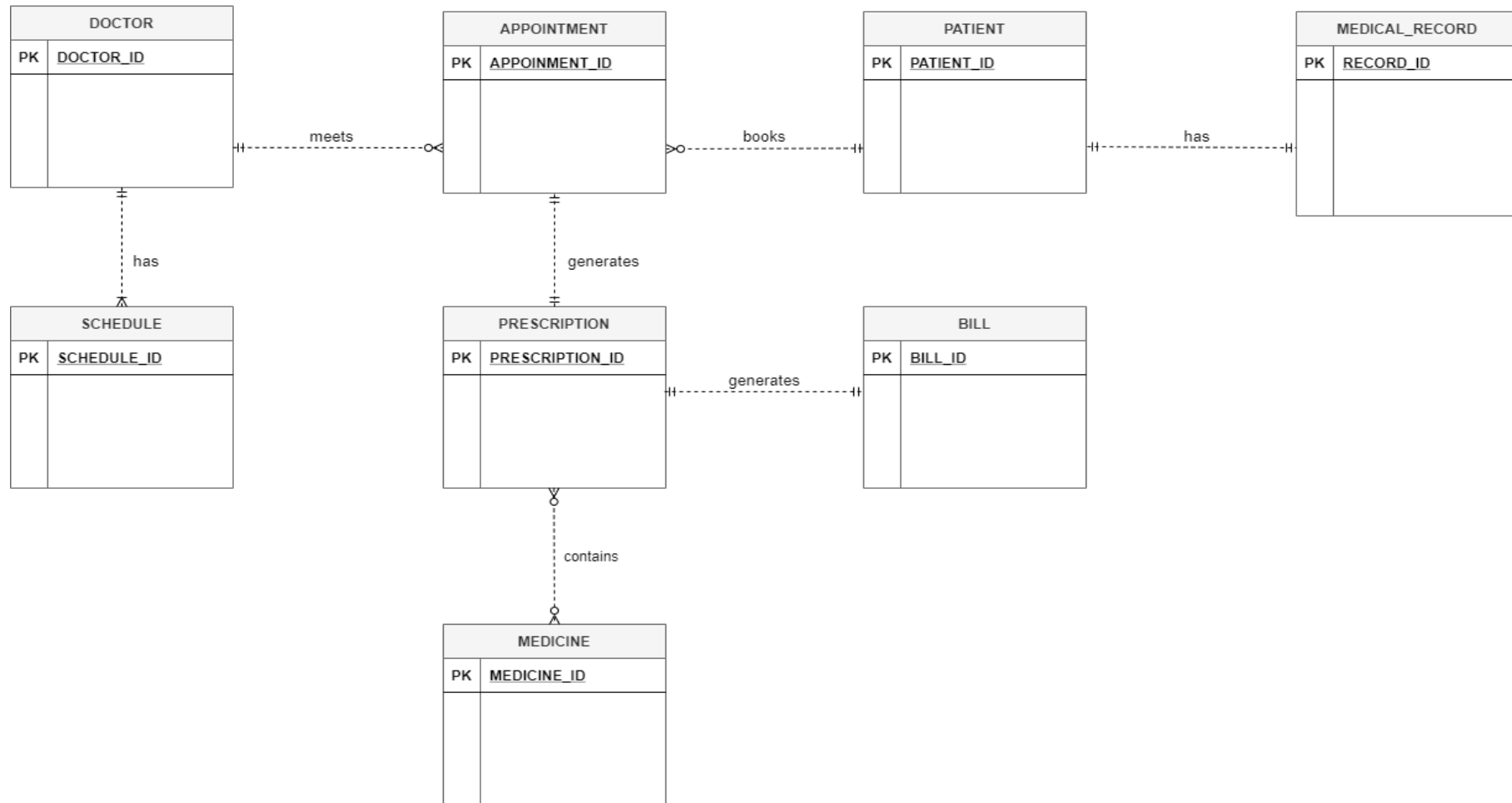<1201301288> <LIM TIAN HEE> <1201301288@student.mmu.edu.my>
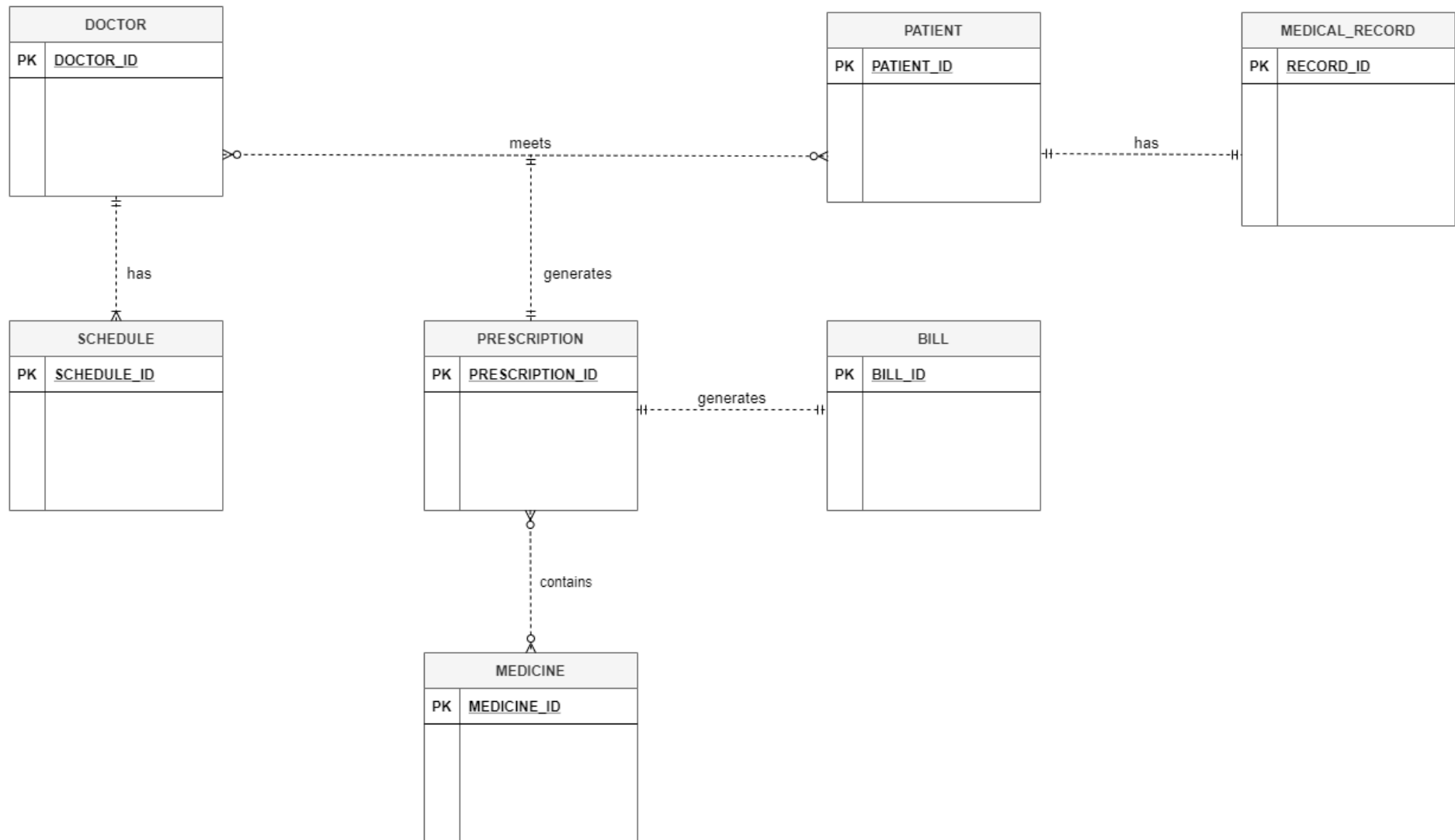
Business rules

1. Each patient may book many appointments.
   Each appointment may be booked by one and only one patient.

2. Each patient has one and only one medical record.
   Each medical record belongs to one and only one patient.

3. Each appointment generates one and only one prescription.
   Each prescription is generated by one and only one appointment.

4. Each prescription generates one and only one bill.
   Each bill is generated by one and only one prescription.

5. Each prescription may contain many medicines.
   Each medicine may belong to many prescriptions.

6. Each doctor has many schedules.
   Each schedule belongs to one and only one doctor.

7. Each doctor may meet one or many appointments.
   Each appointment may be met by one and only one doctor.

Conceptual ERD

Conceptual Model 1.1

Conceptual Model 1.2

Internal ERD:

Internal Model