

HOSPITAL MANAGEMENT SYSTEM DATABASE

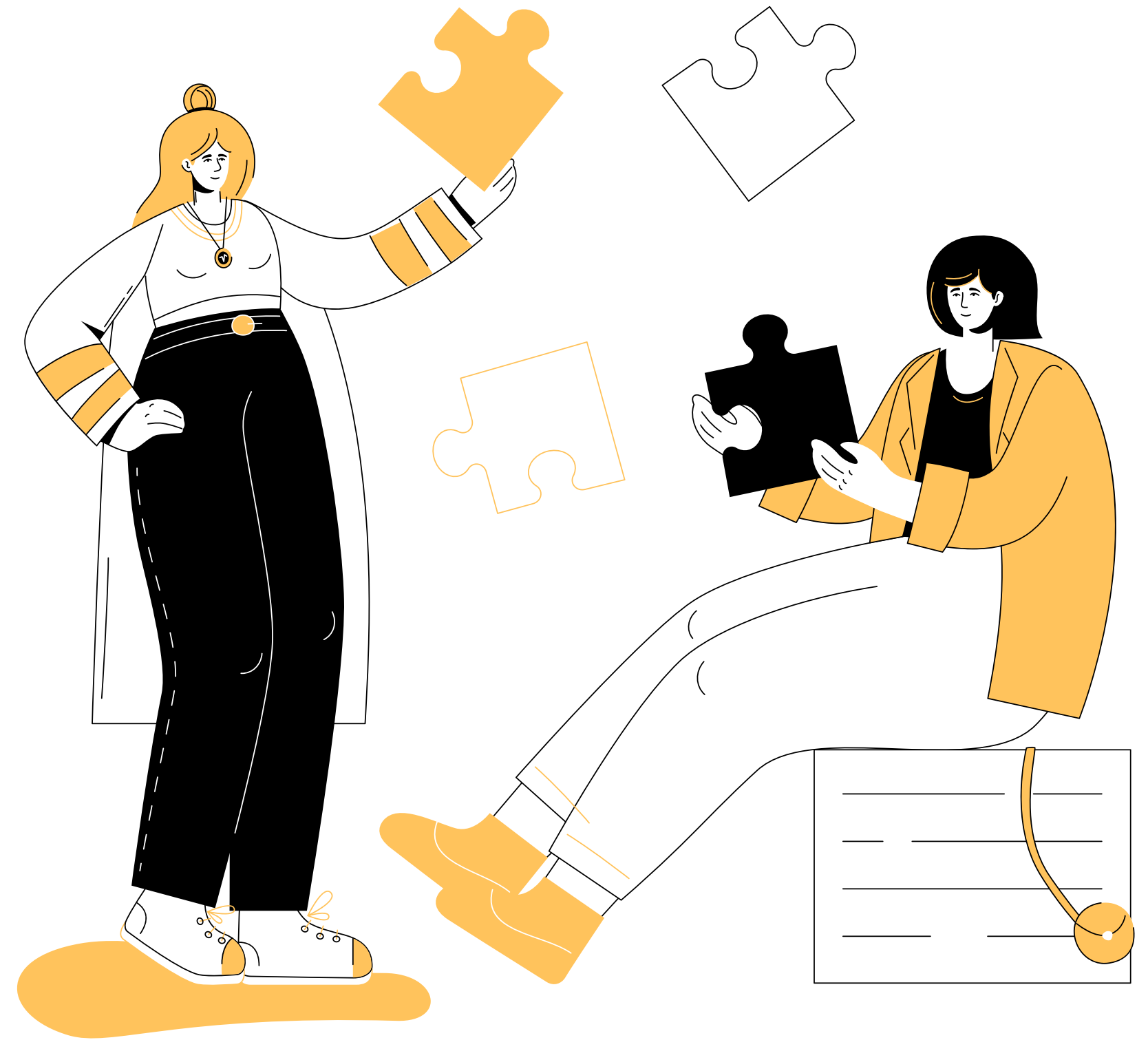
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OVERVIEW

- This is a project about Hospital Management System.
- Our project shows how each patient has been treated in a period of time.
- One medicine is used for one disease and one disease is treated by one doctor.
- There are 6 tables: Patient, History Record, Medicine, Doctor, Bill, and TP (Treatment Procedure), illustrating the system in detail over the next slides.



Entities

PATIENT
Patient_ID
FirstName
LastName
Gender

DOCTOR
Doctor_ID
FirstName
LastName
DOB

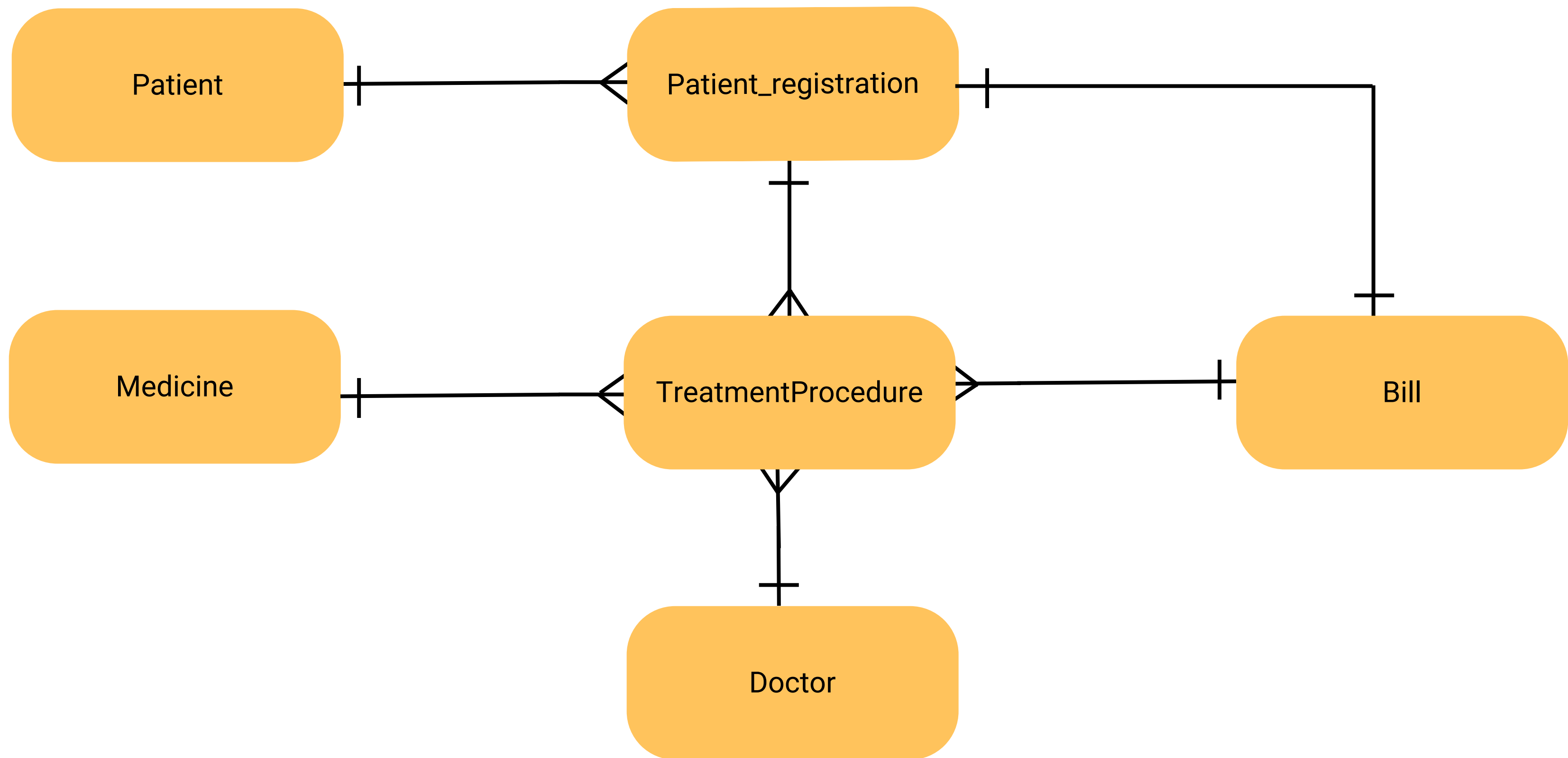
TREATMENTPROCEDURE
TP_ID
Reg_ID
Doctor_ID

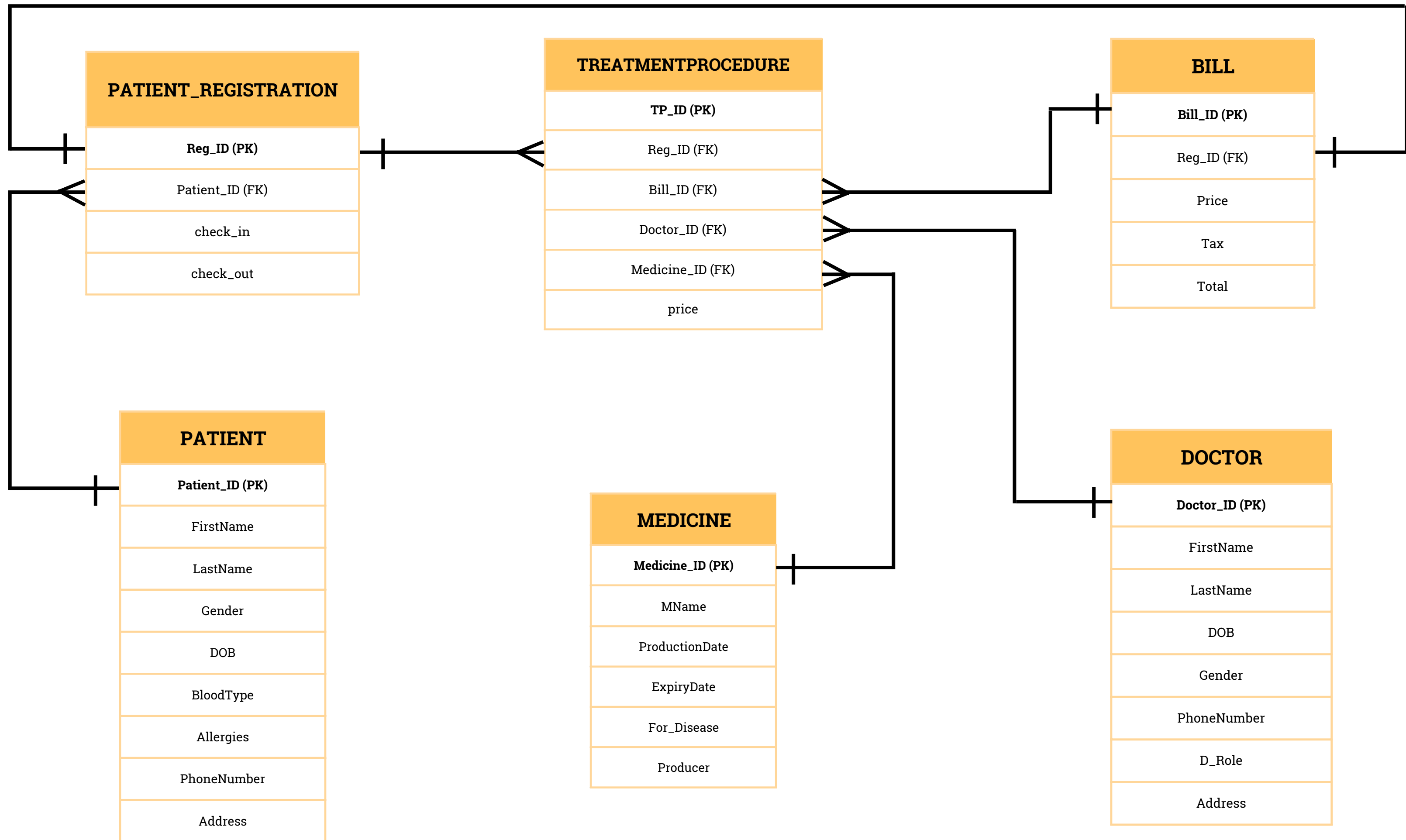
MEDICINE
Medicine_ID
MName

BILL
Bill_ID
Reg_ID
Price

PATIENT_REGISTRATION
Reg_ID
Patient_ID
check_in
check_out

ERD





Tables

PATIENT
Patient_ID (PK)
FirstName
LastName
Gender
DOB
BloodType
Allergies
PhoneNumber
Address

DOCTOR
Doctor_ID (PK)
FirstName
LastName
DOB
Gender
PhoneNumber
D_Role
Address

MEDICINE
Medicine_ID (PK)
MName
ProductionDate
ExpiryDate
For_Disease
Producer

BILL
Bill_ID (PK)
Reg_ID (FK)
Price
Tax
Total

PATIENT_REGISTRATION
Reg_ID (PK)
Patient_ID (FK)
check_in
check_out

TREATMENTPROCEDURE
TP_ID (PK)
Reg_ID (FK)
Doctor_ID (FK)
Medicine_ID (FK)
Bill_ID (FK)
price

Normalization form of the tables

All the tables are in 2NF because:

- Each table contains a single value.
- Each record is unique
- Every non-key attribute is fully dependent on primary key.

The table TREATMENTPROCEDURE is in BCNF, because:

- It is in 2NF
- It has no transitive dependencies
- For any dependencies, TP_ID must be a super key.



Data Dictionary

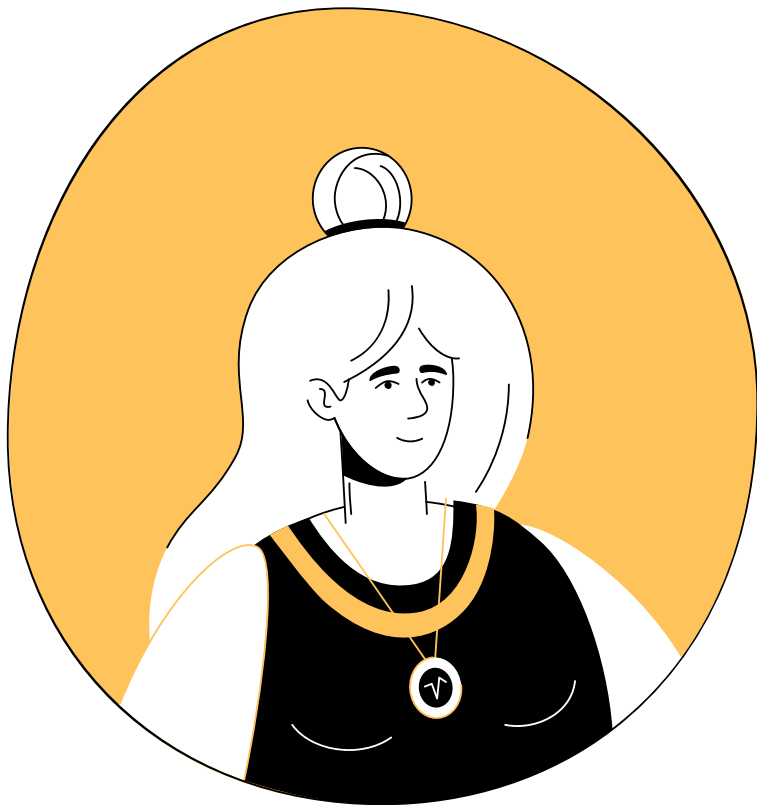
Entities	Field	Type	Length	Constraint
Patient	Patient_ID	int		not null
	FirstName	varchar	32	not null
	LastName	varchar	32	not null
	Gender	varchar	10	("Female", "Male")
	DOB	date		
	BloodType	varchar	3	
	Allergies	varchar	20	
	PhoneNumber	int		not null
	Address	varchar	252	

Entities	Field	Type	Length	Constraint
Doctor	Doctor_ID	int		not null
	FirstName	varchar	32	
	LastName	varchar	32	
	DOB	date		
	Gender	varchar	10	("Female", "Male")
	PhoneNumber	int		not null
	D_Role	varchar	30	not null
	Address	varchar	252	

Data Dictionary

Entities	Field	Type	Length	Constraint
Medicine	Medicine_ID	int		not null
	Mname	varchar	42	
	ProductionDate	date		not null
	ExpiryDate	date		not null
	For_Disease	varchar	50	not null
	Producer	varchar	32	not null
Patient_registration	Reg_ID	int		not null AUTO_INCREMENT
	Patient_ID	int		not null
	check_in	date		
	check_out	Date		

Entities	Field	Type	Length	Constraint
TreatmentProcedure	TP_ID	int		not null AUTO_INCREMENT
	Reg_ID	int		not null
	Doctor_ID	int		not null
	Medicine_ID	int		not null
	Bill_ID	int		
	price	int		
Bill	Bill_ID	int		not null
	Reg_ID	int		not null
	Price	int		not null
	Tax	int		not null
	Total	int		not null



**THANK YOU
FOR
READING !**