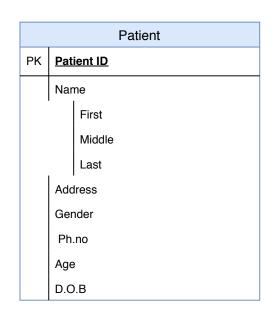
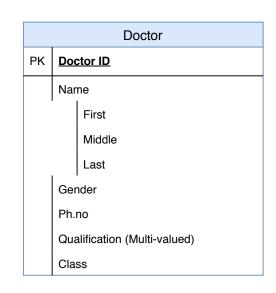
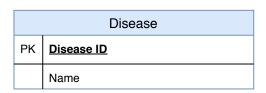


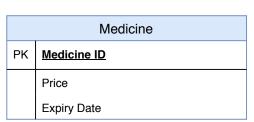
STEP 1: (Strong entities)



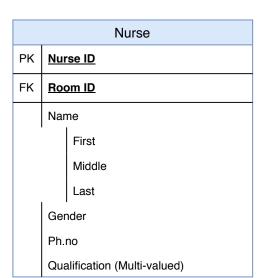


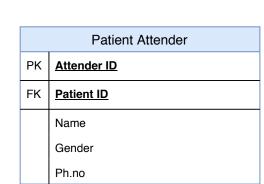
	_
	Rooms
PK	Room ID
	Cost
	Туре





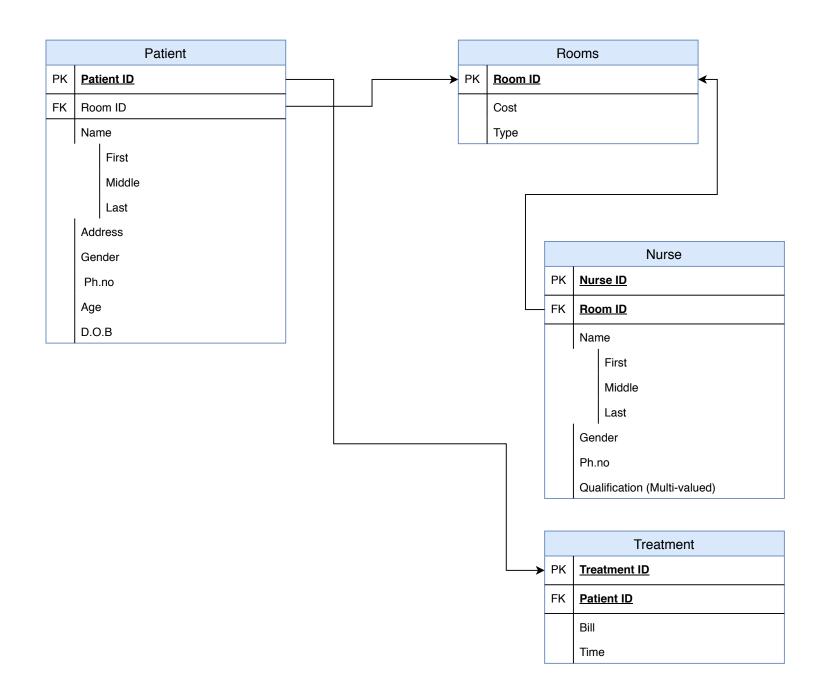
STEP 2: (Weak entities)





Treatment		
PK	<u>Treatment ID</u>	
FK	Patient ID	
	Bill	
	Time	

STEP 3: (Binary 1:1 relations)



Doctor					
PK	Doctor ID				
Name					
		First			
		Middle			
	•	Last			
	Ger	nder			
Ph.no					
	Qua	alification (Multi-valued)			
	Cla	SS			

Medicine	
PK Medicine ID	
	Price
	Expiry Date

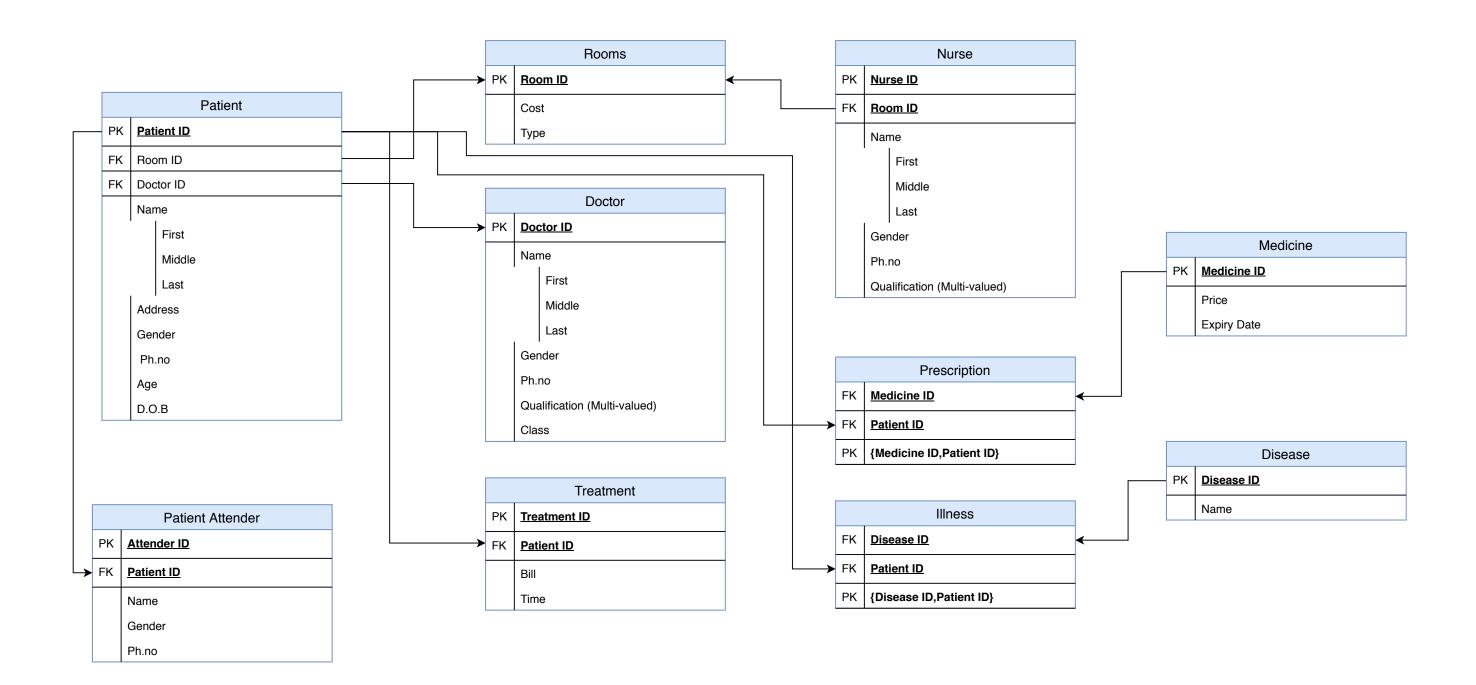
	Disease
PK	Disease ID
	Name

Patient Attender		
PK	Attender ID	
FK	Patient ID	
	Name	
	Gender	
	Ph.no	

STEP 4: (Binary 1:N relations) Rooms Nurse → PK Room ID PK Nurse ID FK Room ID Patient Cost PK Patient ID Type Name FK Room ID First FK Doctor ID Middle Doctor Name Last → PK | <u>Doctor ID</u> First Gender Name Middle Ph.no First Last Qualification (Multi-valued) Middle Address Last Gender Gender Ph.no Ph.no Age Qualification (Multi-valued) D.O.B Class Treatment PK Treatment ID Patient Attender PK Attender ID FK Patient ID FK Patient ID Bill Time Name Gender Ph.no Medicine PK Medicine ID Price Expiry Date Disease PK Disease ID Name

STEP 5: (Binary M:N relations)

Patient -> Medicine
 Patient -> Disease



STEP 6: (Multi-valued Attributes)

The multi-valued attributes are the qualifications of doctor and nurse

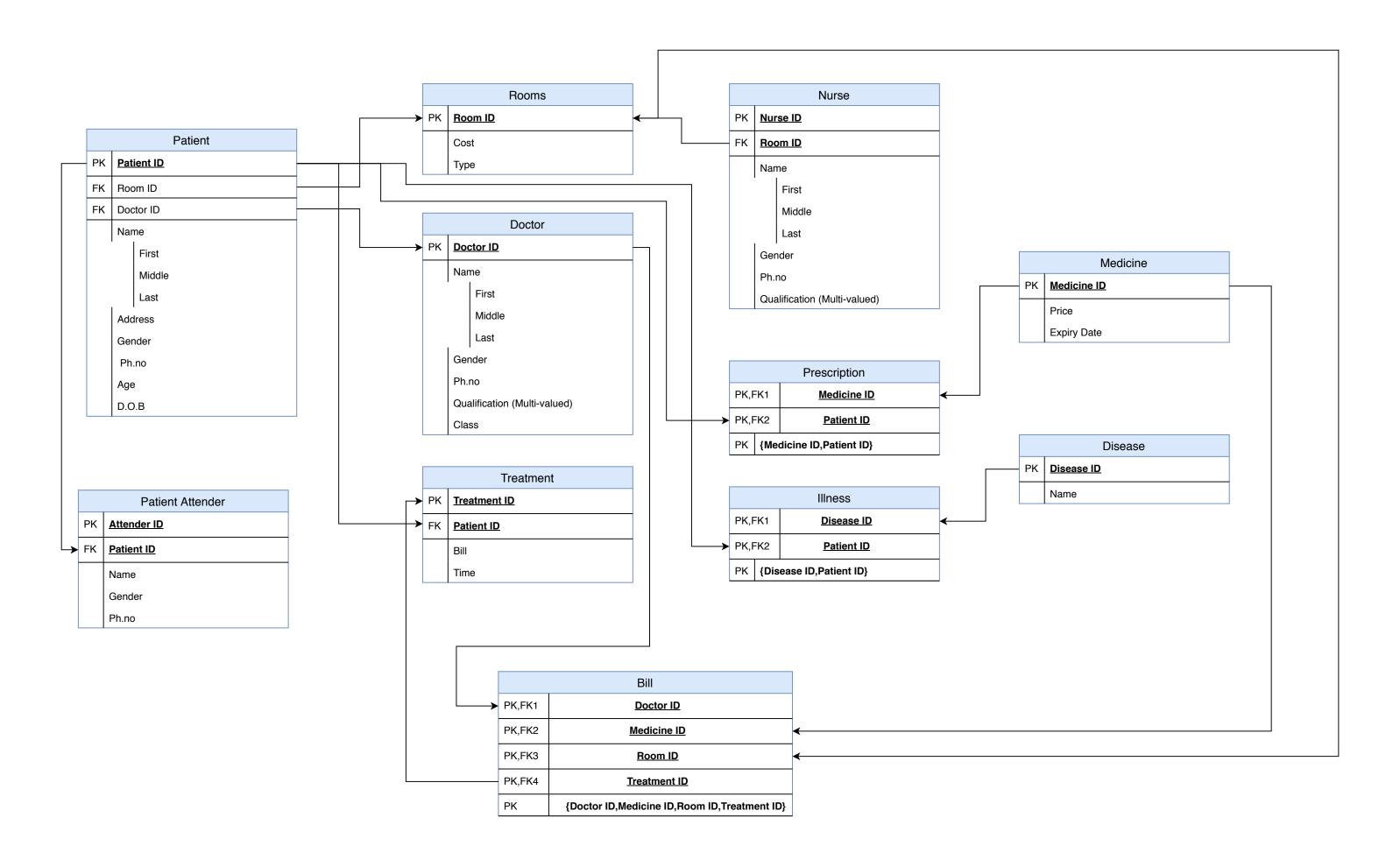
For each of them, we create a new relation.

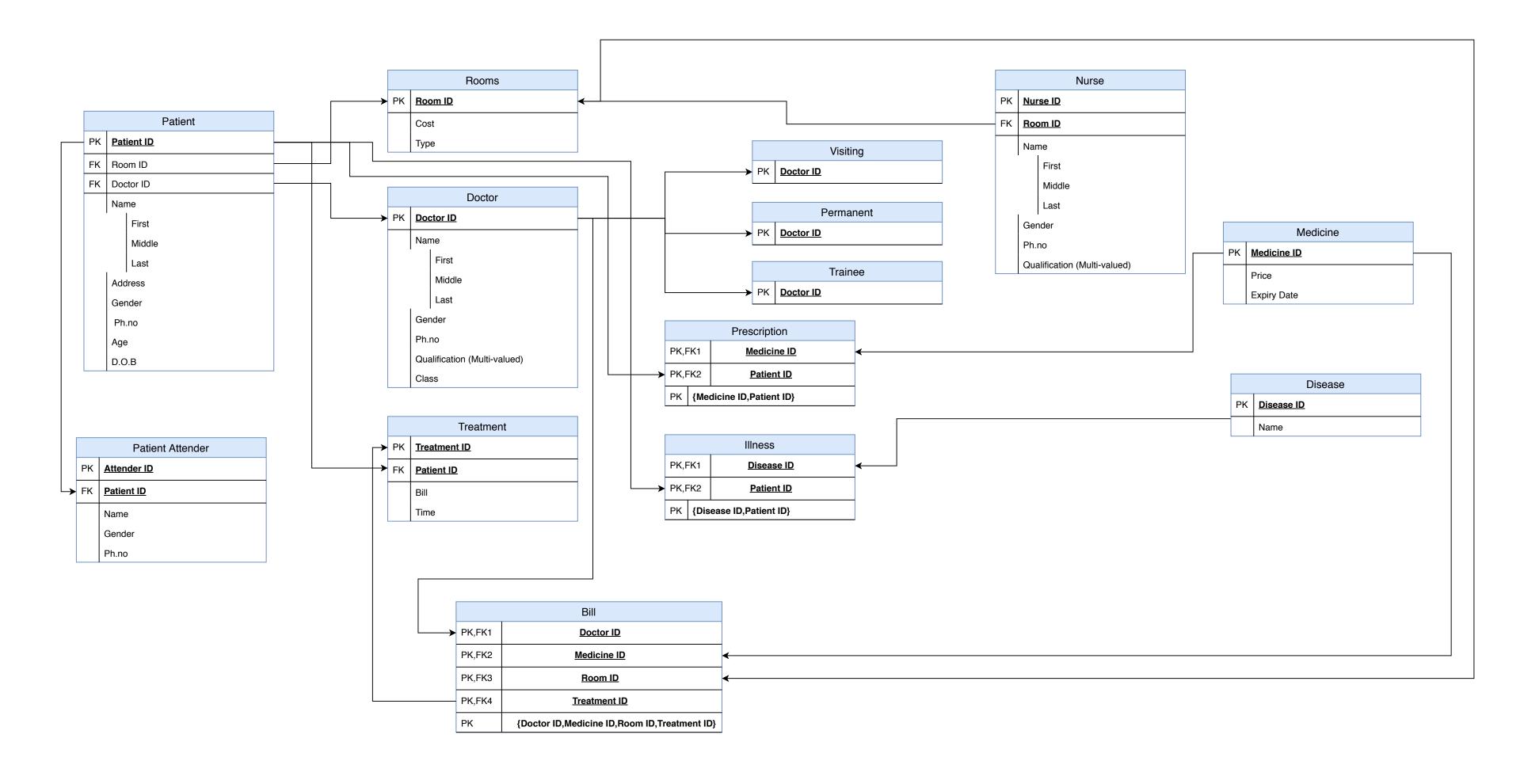
This relation will include an attribute corresponding to the attribute, plus the primary key attribute(as a foreign key in the relation)of the relation that represents the entity type of relationship type that has the attribute.

The primary key will be the combination of both.

STEP 7: (N-ary relations)

1. Bill: doctor,medicine,room -> Treatment





1st Normal form

