CLINIC
MANGEMENT SYSTEM

PREPARED BY

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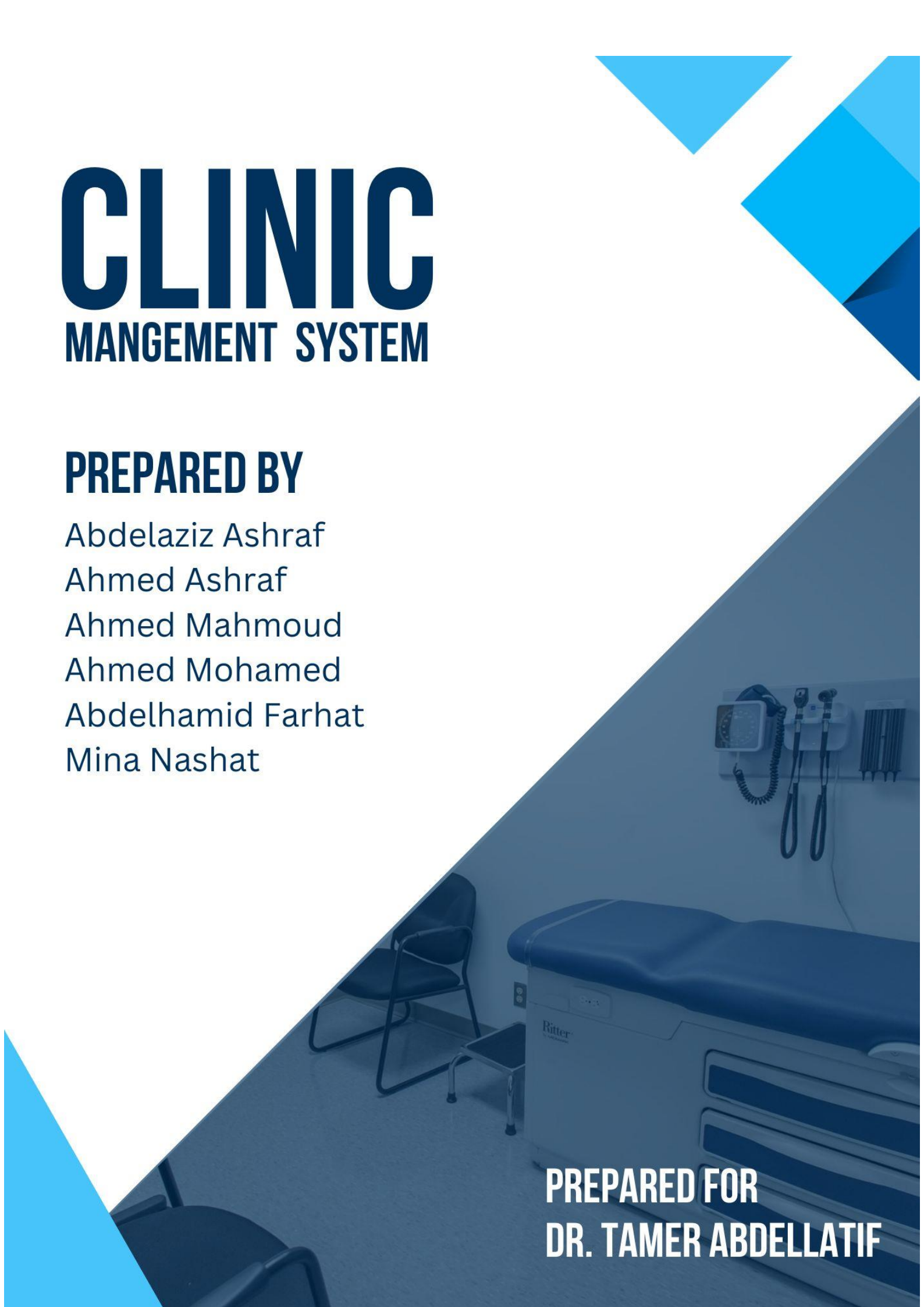

PREPARED FOR
DR. TAMER ABDELLATIF

Table of Contents

List of Figures

Table of abbreviations

Abbreviation	Stands For
P	Patients
PA	Paramedics
A	Appointments
P	Procedures
I	Insurance
MS	Medical supplies
S	Suppliers
B	Bills
R	Rooms
MS	Medical_Waste
D	Doctors
E	Equipment
MI	Medical_investigations

Introduction:

Dr Ashraf Shabib's clinic is a surgery clinic located in Qena governorate in the city of Qus. It is a clinic that specializes in surgical operations, and it is operated and managed by its owner Dr Ashraf Mohamed Shabib. The goal of the system is to create a tool for managing the workflow of The owner. There was a need for a database that would keep track of patients, appointments, procedures, medication, etc. After contacting the business owner and discussing what will be needed in this database, we began conducting our first actions in the project and that takes us to chapter one.

Fig1. clinic skitch [1]

1 .1 Database analysis

1. Patients:

- P Name
- P gender
- P id
- P Date of birth
- P age
- P Address
- P Phone number
- P Insurance
- P Allergies
- P Medical history

3. Appointments:

- A Patient id
- A patient name
- A NO.
- A type
- A time
- A Follow update.

4. Procedures:

- P CPT
- P Patient name
- P equipment
- P number
- P cost
- P date and time
- P paramedics name
- P medical supplies
- P Duration
- P room

5. Insurance:

- I Provider name
- I Policy number
- I patient name
- I patient SSN
- I discount.

6. Medical_Supplies

- MS id
- MS name
- MS total amount

2. Paramedics:

- PA Id
- PA Name
- PA phone
- PA address
- PA e-mail
- PA SSN
- PA Gender
- PA Salary
- PA Role
- PA experience
- PA skills
- PA Shift
- PA qualification

- MS consumption
- MS available
- MS expiry date.

7. Suppliers

- S name
- S phone
- S email
- S address

8. Bills

- B Patient ID
- B patient name
- B Service date
- B Total amount

9. Rooms

- R capacity
- R number
- R type
- R contents
- R floor

10. Medical_Waste

- MW company name
- MW phone number
- MW date

11. Doctors

- D Id
- D Name
- D phone
- D address
- D e-mail
- D Salary
- D experience
- D Shift

12. Equipment

- E type
- E amount
- E serial number
- E last maintenance date
- E sterilization

13. Medical_Investigations

- MI patient name
- MI Diagnosis
- MI Needs a procedure.
- MI medications
- MI medical lab analysis
- MI medical Radiology

1.2 Electronic copy of ERD

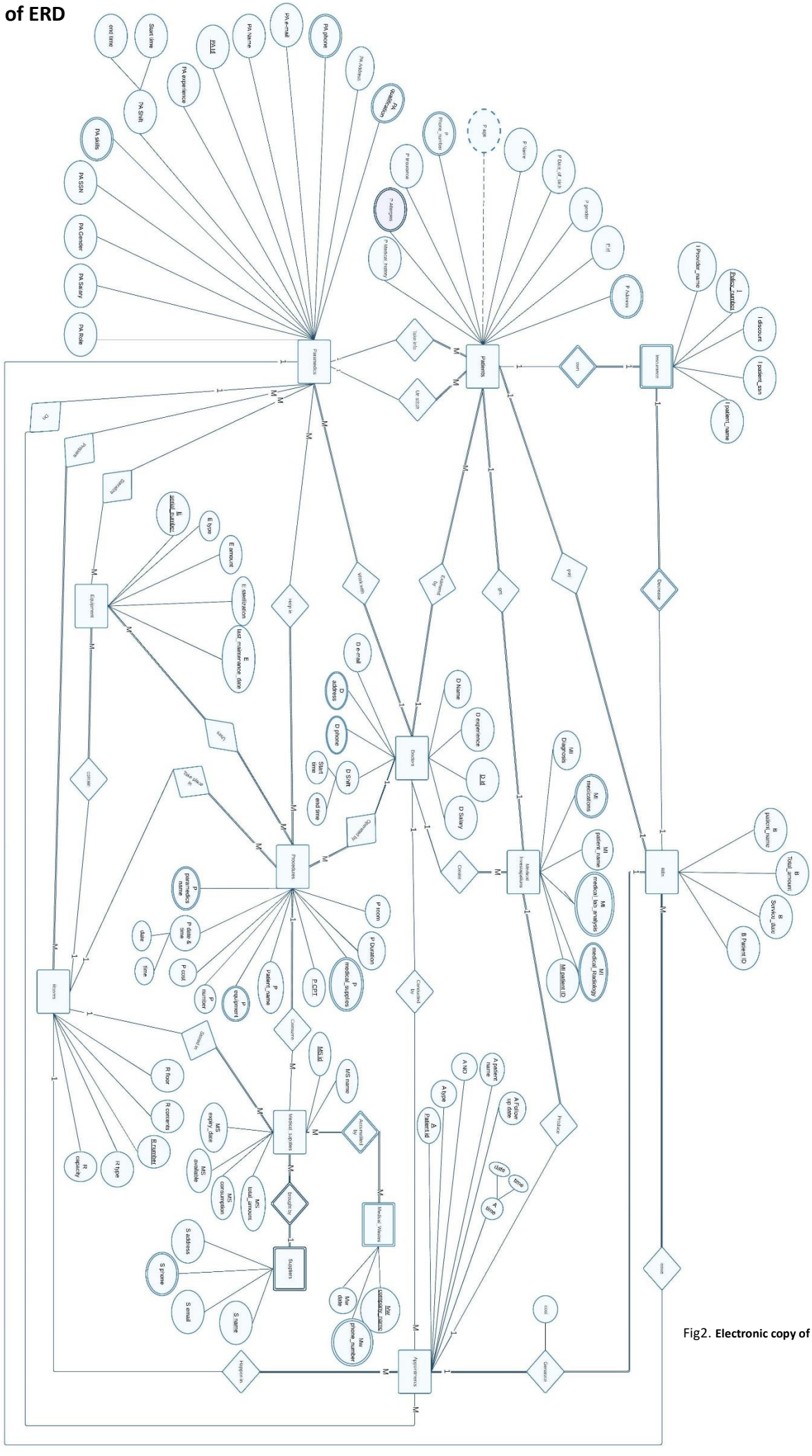

Fig2. **Electronic copy of ERD** [2]

1.3 Relationships

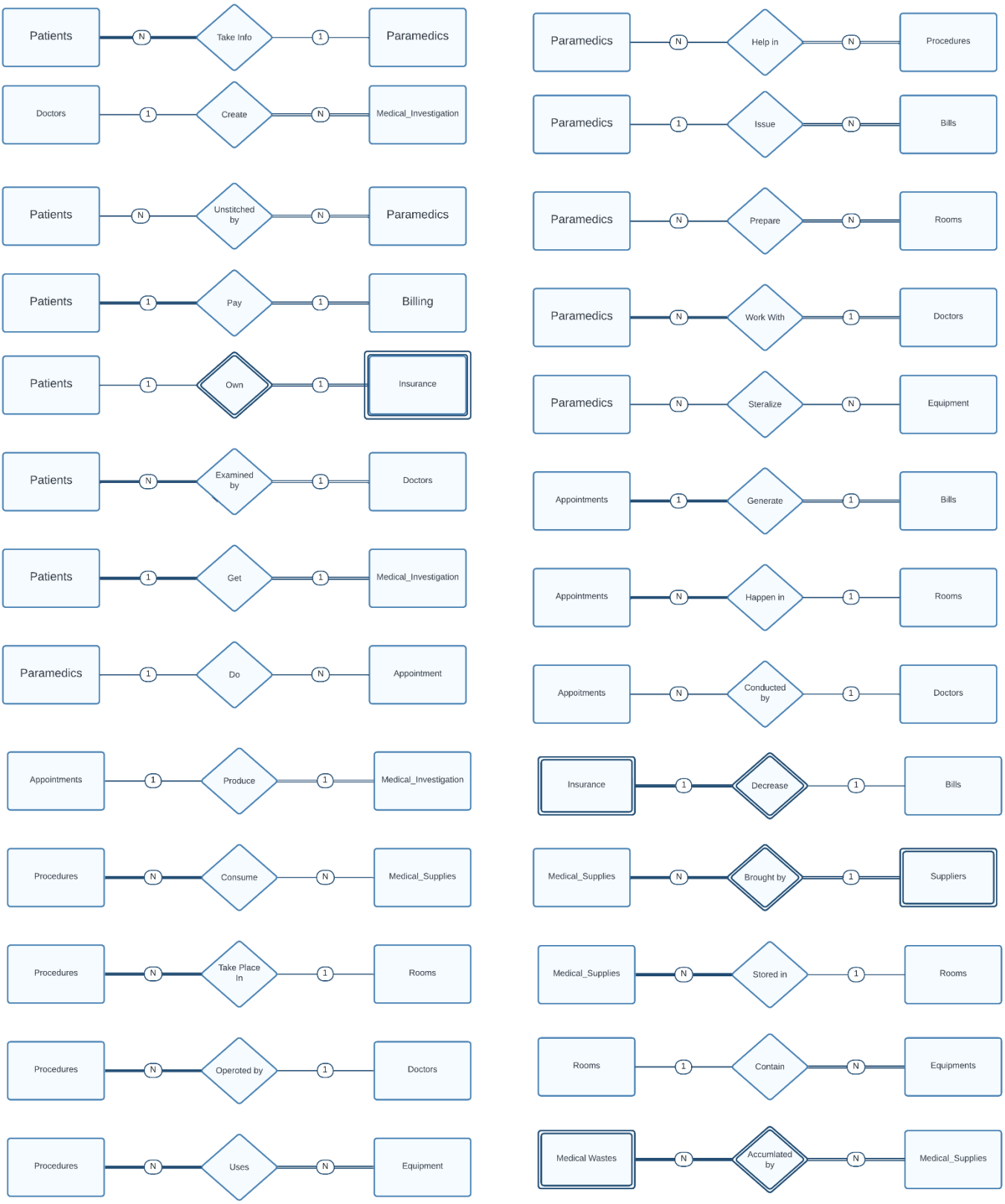

Fig3. **relationships** [3]

1.4 Physical copy of ERD

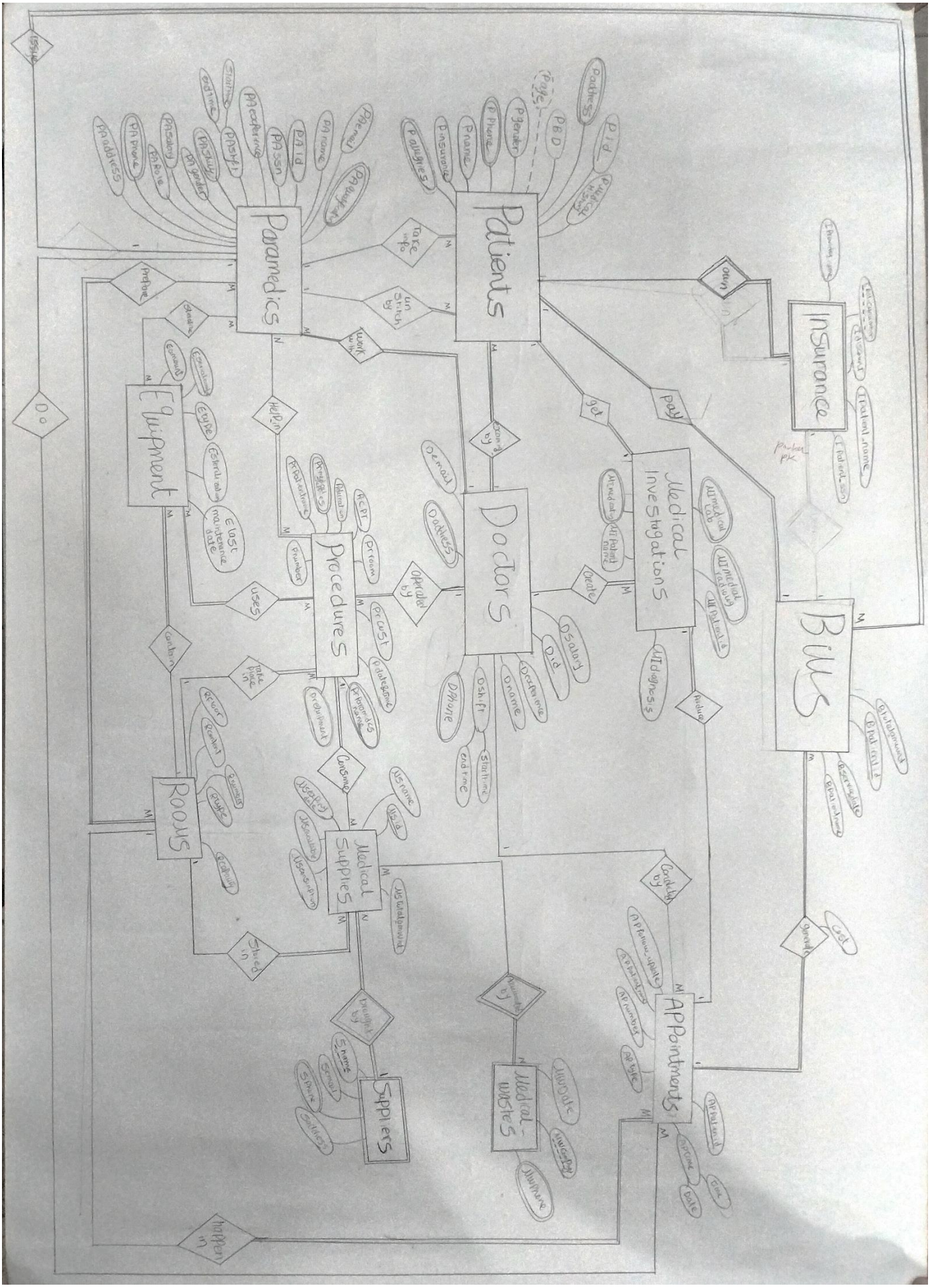

Fig4. **Physical copy of ERD** [4]

2.1 Summary on what's to come.

In this phase we are going to express what we analyzed in the previous phase in what is called a mapping form and apply to it the fundamental rules of database. This phase is called the pre implementation phase as it is the last step we take before we start coding the project on the interpreter, this step is vital as it helps avoid making mistakes and gives us better understanding of the system as a whole.

We provided in the upcoming pages an electronic copy of the relational schema as well as a picture of the physical copy at hand to help more with grasping the essence of the work.

2.2 Electronic copy of the relational schema.

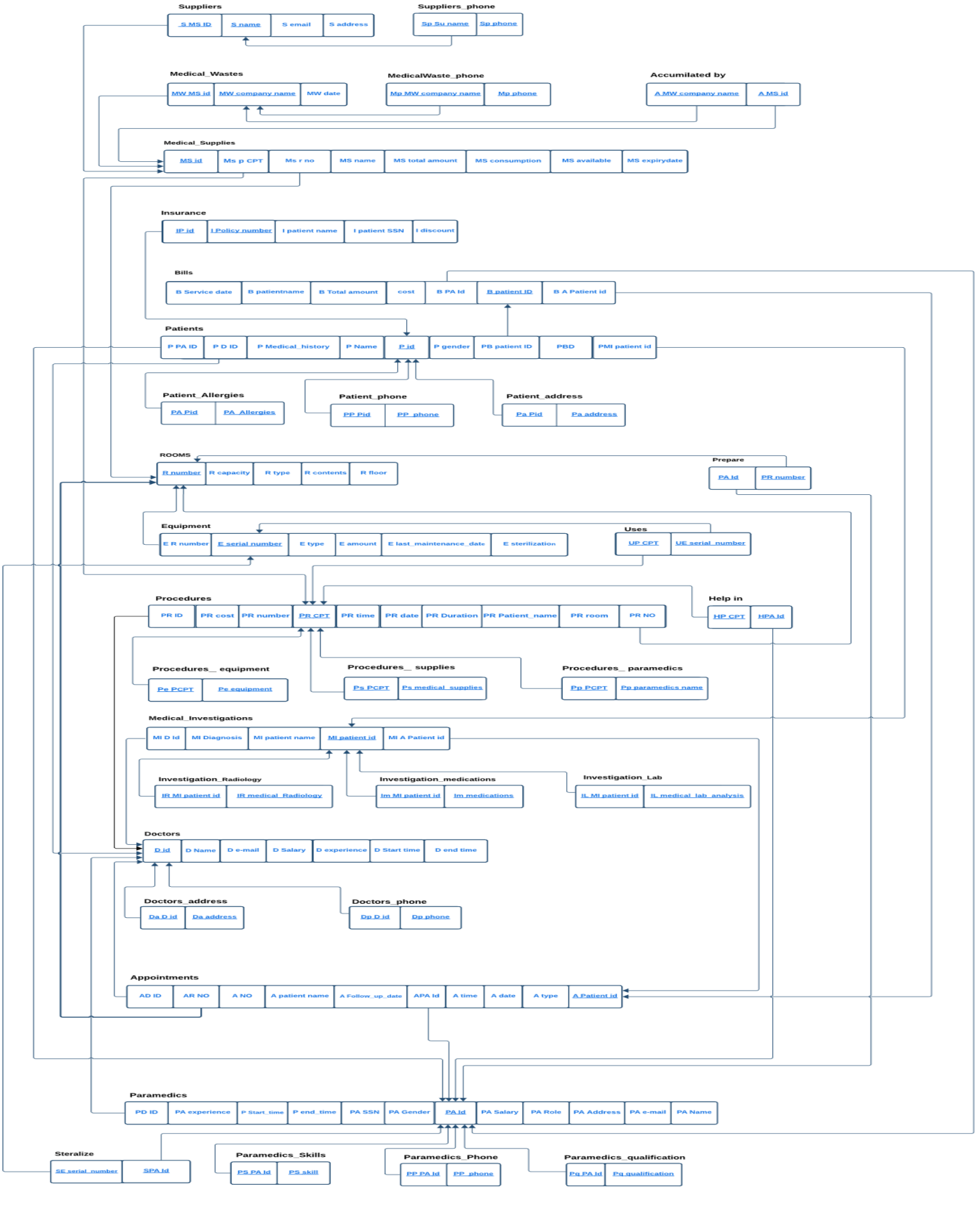

Fig5. **Electronic copy of relational schema** [5]

2.3 Physical copy of relational schema.

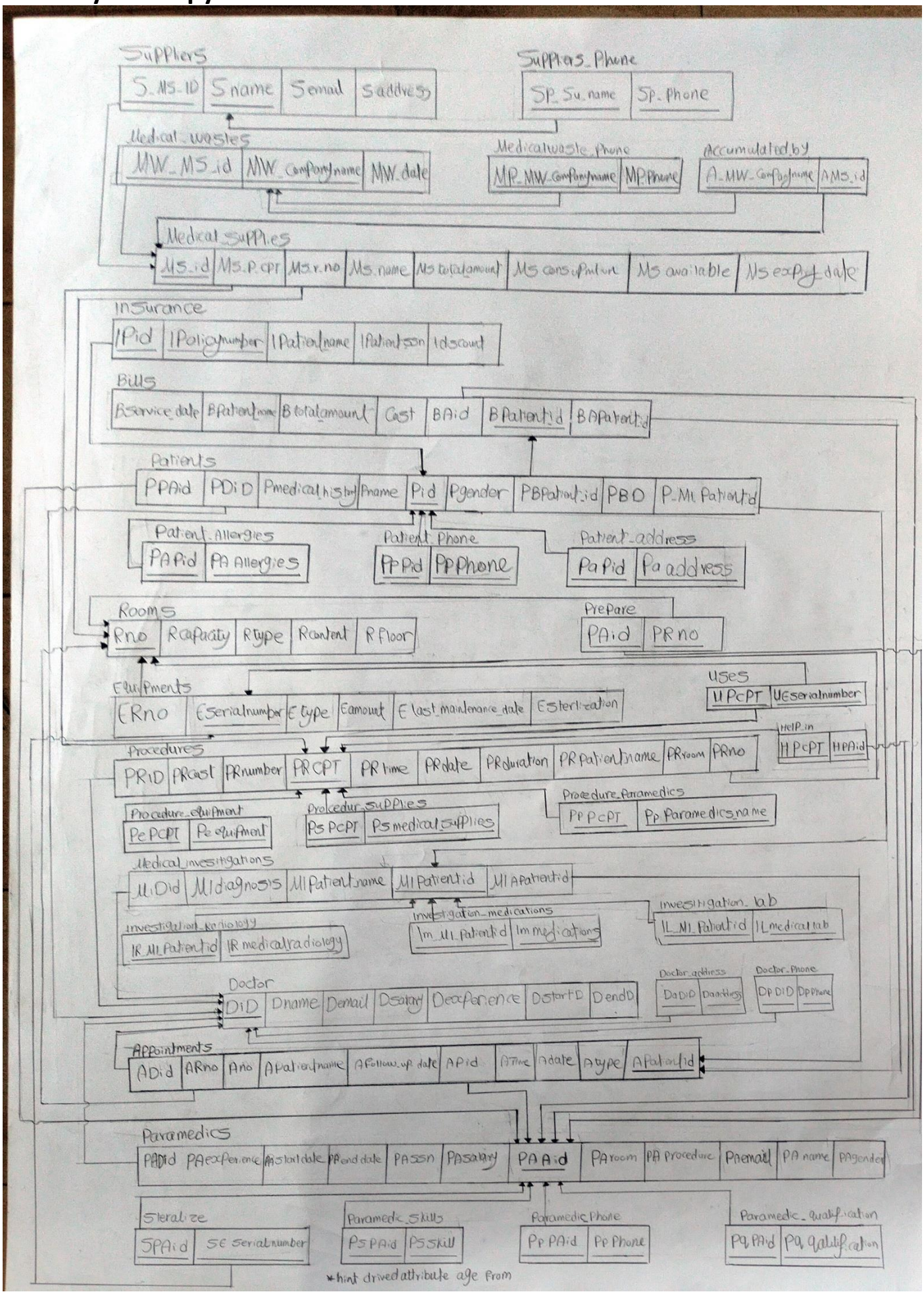

Fig6. **Physical copy of relational schema** [6]