4YOU PSYCHIATRIC HOSPITAL

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HOSPITAL

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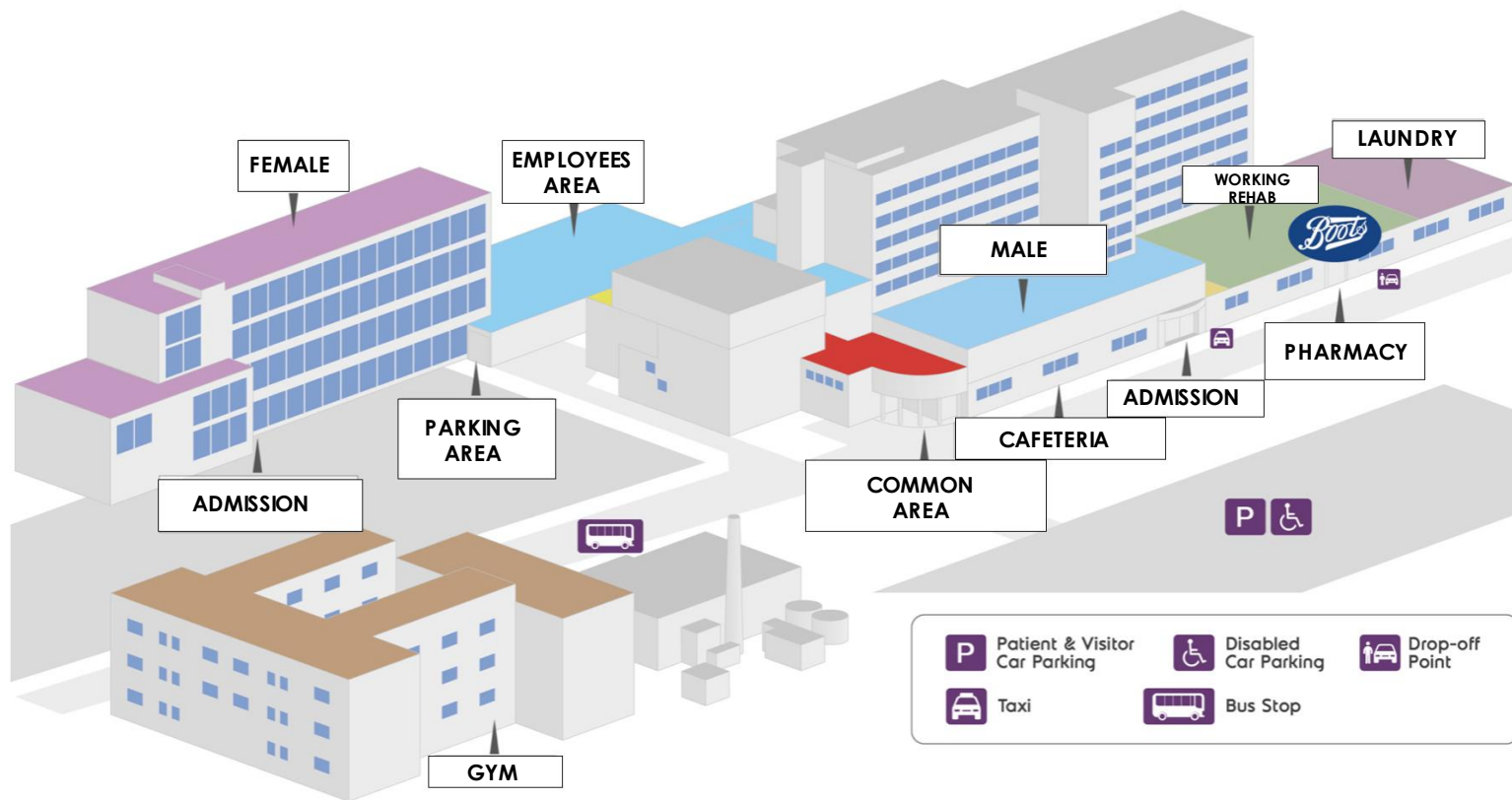

PSYCHIATRIC HOSPITAL

HOW DID WE GET THE IDEA

Hospital map labels: FEMALE, EMPLOYEES AREA, LAUNDRY, WORKING REHAB, MALE, Boots, PHARMACY, ADMISSION, PARKING AREA, CAFETERIA, COMMON AREA, ADMISSION, GYM

Legend:
- P — Patient & Visitor Car Parking
- Disabled Car Parking
- Drop-off Point
- Taxi
- Bus Stop

Department	Level
Accident & Emergency (A&E)	3
Acute Coronary Care Unit (ACCU)	8
Ambulatory Emergency Care (AEC)	3
Blood Tests	3
Boots	3
Café	3
Children & Young Person's Unit	10
Clinical Investigations Department	3
Day Surgery (DCUK)	3
Department of Anaesthetics	5
Diabetes	4

Department	Level
Discharge Lounge	2
Douglas Macmillan Haematology & Oncology Unit	3
Emergency Assessment Unit	4
Friends Shop	3
FOPAS	2
Intensive Care Unit (ICU)	5
Kingston Wing (PPU)	4
Library	4
MRI/CT Suite	3
Multifaith Prayer Room	4

Department	Level
Nutrition & Dietetics	4
Orthopaedic Outpatients	3
Orthotics	3
Outpatients	3
Paediatrics Outpatients	10
PALS (Patient Advice & Liaison)	3
Pathology	3
Main Hospital Pharmacy	3
Physiotherapy	3
Pre-Assessment Clinic	6
Queensway Day Hospital	2

Department	Level
Radiology/X-Ray	3
Reception (Main)	3
Rehabilitation Unit	2
Restaurant 'The Canteen'	2
Sterile Services Department (SSD)	5
Symphony Hub	2
Theatre Admission Lounge	7
Ward 6A	6
Ward 6B	6
Ward 7A	7
Ward 7B	7

Department	Level
Ward 8A	8
Ward 8B	8
Ward 9A	9
Ward 9B	9
Yeovil Academy	4
Women's Hospital	
- Freya Ward	2
- Jasmine Ward	1
- Labour Ward	3
- Outpatients	G
- Special Care Baby Unit	2

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Why does the psychiatric hospital need this application?

- ❏ What is a DBMS?
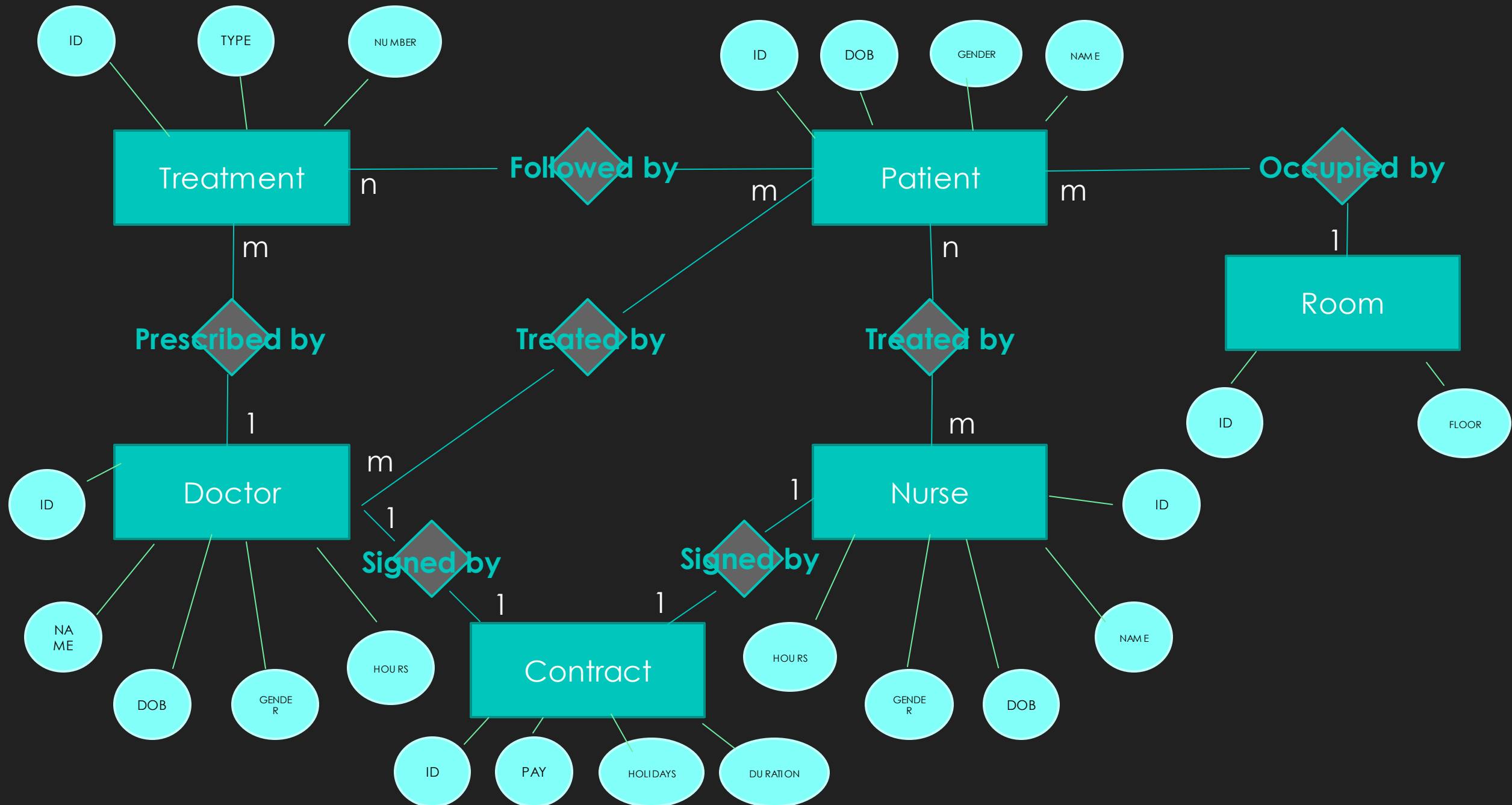- ❏ More organized method
- ❏ Daily examples

☐ Access of information

☐ Relational Database

☐ Adapts to changes
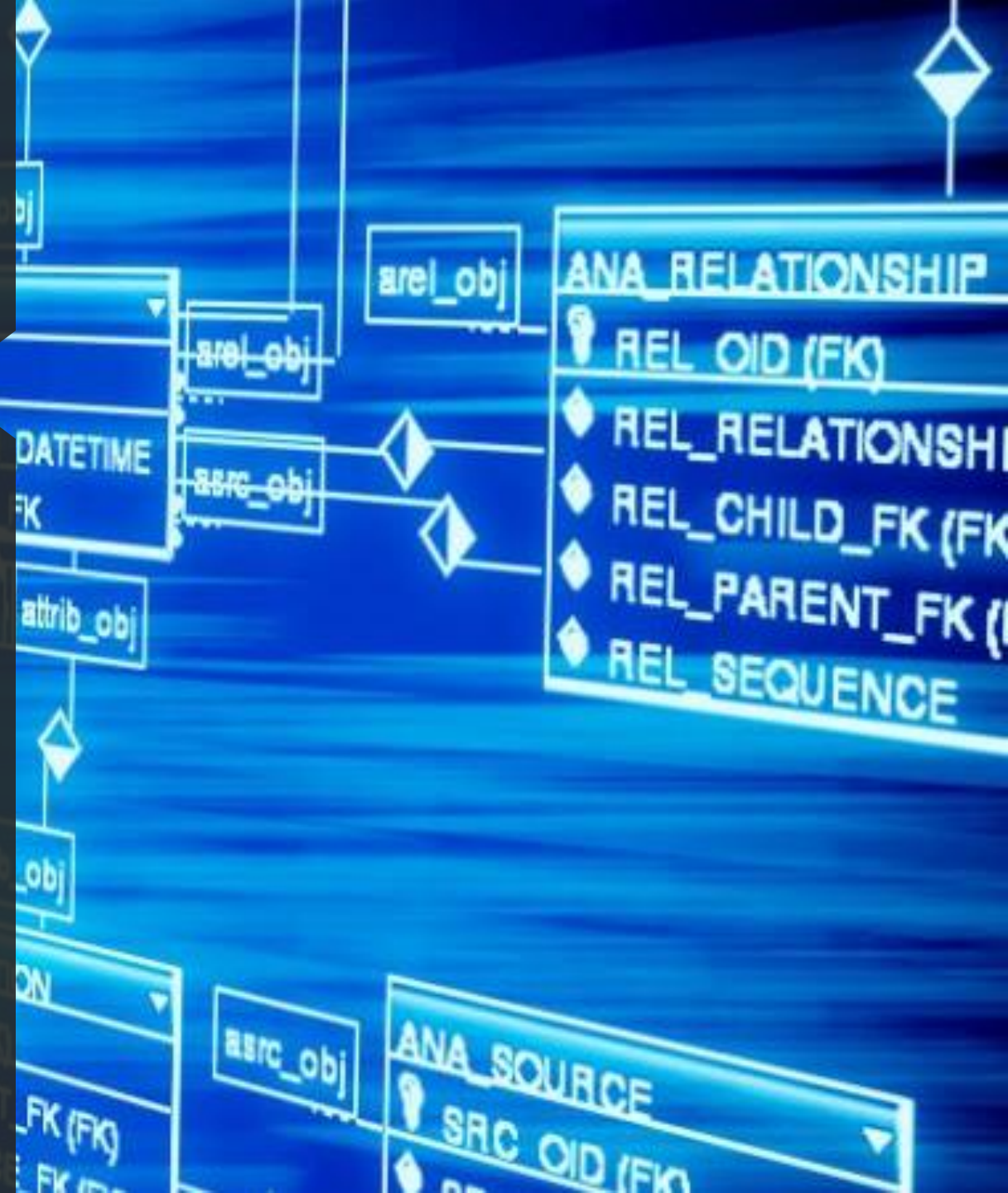
☐ Prevents data loss

The main reasons to apply a DBMS are:

Database Management System

We have six entities.

- Patient
- Doctor
- Nurse
- Room
- Contract
- Treatment

Entity-Relationship Diagram

Treatment (ID, TYPE, NUMBER)

Patient (ID, DOB, GENDER, NAME)

Doctor (ID, NAME, DOB, GENDER)

Nurse (ID, HOURS, NAME, GENDER, DOB)

Contract (ID, PAY, HOLIDAYS, DURATION, HOURS)

Room (ID, FLOOR)

Relationships:
- Treatment — n — **Followed by** — m — Patient
- Treatment — m — **Prescribed by** — 1 — Doctor
- Doctor — m — **Treated by** — m — Patient
- Patient — n — **Treated by** — m — Nurse
- Patient — m — **Occupied by** — 1 — Room
- Doctor — 1 — **Signed by** — 1 — Contract
- Contract — 1 — **Signed by** — 1 — Nurse

tables

- Room
- Patient – 1-to-m relationship with room
- Treatment – 1-to-m relationship with doctor

ROOM

ID	TYPE	FLOOR
1	BEDROOM	1
2	BEDROOM	1
3	KITCHEN	2
4	COMMON	3

PATIENT

ID	NAME	GENDER	DOB	ROOM ID
1	SOFIA	FEMALE	14-03-1999	1
2	ALEJANDRA	FEMALE	07-12-1999	1
3	GABRIEL	MALE	21-06-1999	2
4	JAVIER	MALE	25-08-1998	3

TREATMENT

ID	TYPE	NUMBER	DOCTOR ID
1	DEXEDRINE	3	1
2	CELEXA	2	1
3	PAXIL	5	2
4	XANAX	1	3

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tables

- Doctor – 1-to-1 relationship with contract

- Nurse– 1-to-1 relationship with contract

- Contract– relationship with doctor and nurse established in the other tables

DOCTOR

ID	NAME	GENDER	DOB	HOURS	CONTRACT ID
1	MARIA	FEMALE	04-05-1975	36	1
2	JOSÉ	MALE	19-02-1977	40	2
3	JESÚS	MALE	25-12-1960	20	3
4	MAGDALENA	FEMALE	07-08-1966	50	4

NURSE

ID	NAME	GENDER	DOB	HOURS	CONTRACT ID
1	CRISTINA	FEMALE	06-04-1990	55	5
2	RAMÓN	MALE	29-02-1989	50	6
3	PAMELA	FEMALE	30-06-1996	45	7
4	EDUARDO	MALE	24-07-1997	60	8

CONTRACT

ID	MONEY	DURATION	HOLIDAYS
1	1728	30-06-2022	15
2	1920	30-06-2022	15
3	960	30-06-2022	30
4	2400	30-06-2022	10
5	1540	30-06-2022	20
6	1400	30-06-2022	20
7	1260	30-06-2022	10
8	1680	30-06-2022	15

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PATIENT- TREATMENT	
PATIENT ID	TREATMENT ID
1	1
2	3
3	2
4	4
1	3
3	4
2	1

NURSE-PATIENT	
NURSE ID	PATIENT ID
1	1
2	3
3	2
4	4
1	3
3	4
2	1

DOCTOR - PATIENT	
DOCTOR ID	PATIENT ID
1	1
2	3
3	2
4	4
1	3
3	4
2	1

Tables for the many-to-many relationships

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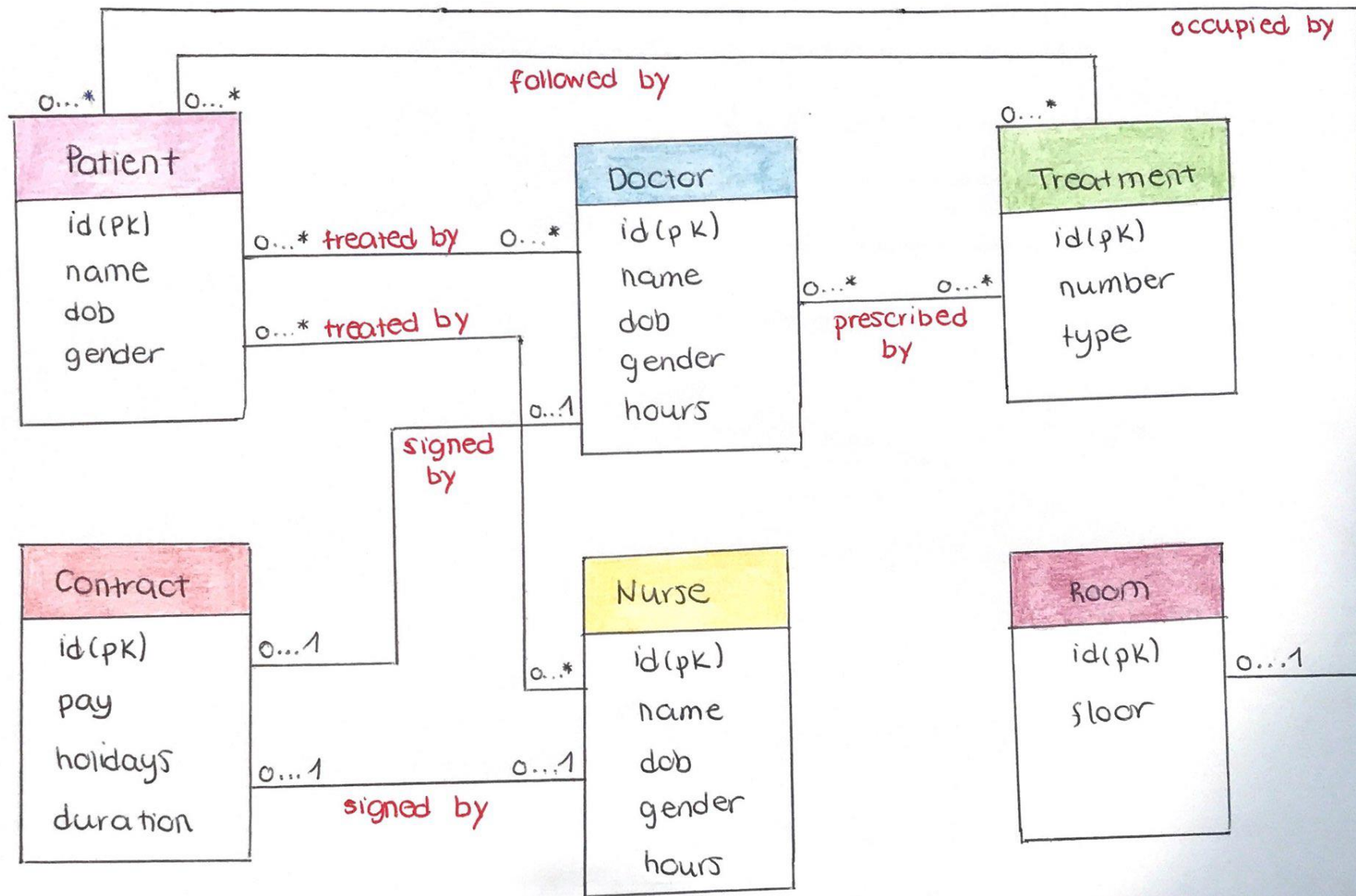
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