Analysis Of The ERD's Relationship

1. Depatments → **Doctors:** One department can have many doctors, but each doctor belongs to only one department.
So, One To Many Relation.

2. Doctors → **Appointments:** One doctor can have many appointments, but each appointment is associated with only one doctor.
So, One To Many Relation.

3. Patients → **Appointments :** One patient can have many appointments, but each appointment is tied to only one patient.
So, One To Many Relation.

If My ERD/Answer is wrong, Then Provide me The correct ERD or Answer.

Thanks…

After The Inserting Data in Table/Entity:

Departments:

SELECT * FROM `Departments` LIMIT 50 (0.000 s) Edit

Modify	DepartmentID	Name	Location
edit	1	Cardiology	Dhaka Medical College, Building A
edit	2	Neurology	Cumilla Medical College, Building B
edit	3	Orthopedics	Sir Salimullah Medical College, Building C
edit	4	Pediatrics	Shaheed Suhrawardy Medical College, Building D
edit	5	Radiology	Sher-e-Bangla Medical College, Building E

Doctors:

`SELECT * FROM `Doctors` LIMIT 50` (0.000 s) Edit

Modify	DoctorID	Name	Specialization	Phone	DepartmentID
☐ edit	1	Dr. Mizanur Rahman	Cardiologist	1111111111	1
☐ edit	2	Dr. Farzana Sultana Nipa	Neurologist	2222222222	2
☐ edit	3	Dr. Abu Baker	Orthopedic Surgeon	3333333333	3
☐ edit	4	Dr. Shamsul Alam Sabuj.	Pediatrician	4444444444	4
☐ edit	5	Dr. Md. Abdul Wohab Khan	Radiologist	5555555555	5

Appointments:

`SELECT * FROM `Appointments` LIMIT 50` (0.000 s) Edit

Modify	AppointmentID	Date	Time	Status	DoctorID	PatientID
☐ edit	6	2030-12-21	10:00:00	Scheduled	1	1
☐ edit	7	2024-12-19	11:00:00	Completed	2	2
☐ edit	8	2025-12-23	12:00:00	Scheduled	3	3
☐ edit	9	2024-12-16	09:00:00	Cancelled	4	4
☐ edit	10	2055-12-25	14:00:00	Scheduled	5	5

Patients:

`SELECT * FROM `Patients` LIMIT 50` (0.000 s) Edit

Modify	PatientID	Name	Age	Gender	Phone
☐ edit	1	Abu Hanif	45	Male	99889898
☐ edit	2	Sumaiya Afrin	30	Female	56565646
☐ edit	3	Mehedi Hassan	60	Male	76767676
☐ edit	4	Lubna Begum	12	Female	6565656565
☐ edit	5	Mohammed Habibur Rahman	25	Male	434343434