Experiment – 3

List out the entities and identify the relationship between them. Also, identify related attributes supposed to be recorded while considering the normalization rule for Hospital Management software.

Entities:

1. Patient:

- Attributes: PatientID (Primary Key), Name, Date of Birth, Gender, Contact Information..

2. Doctor:

- Attributes: DoctorID (Primary Key), Name, Specialization, Contact Information, Certification, etc.

3. Diagnosis:

- Attributes: DiagnosisID (Primary Key), Name, Description, Cost, Duration, etc.

Relationships:

1. Patient-Doctor Relationship:

- A patient can have a primary doctor, and a doctor can have multiple patients.

2. Appointment-Doctor Relationship:

- An appointment is associated with one doctor, and a doctor can have multiple appointments.

3. Diagnosis-Patient Relationship:

- A patient can receive multiple treatments, and a treatment can be administered to multiple patients.

Normalization rules should be applied to ensure data consistency and integrity. These rules include First Normal Form (1NF), Second Normal Form (2NF), and Third Normal Form (3NF) to minimize redundancy and data anomalies. This ER diagram provides a foundation for designing the database schema for a Hospital Management Software.