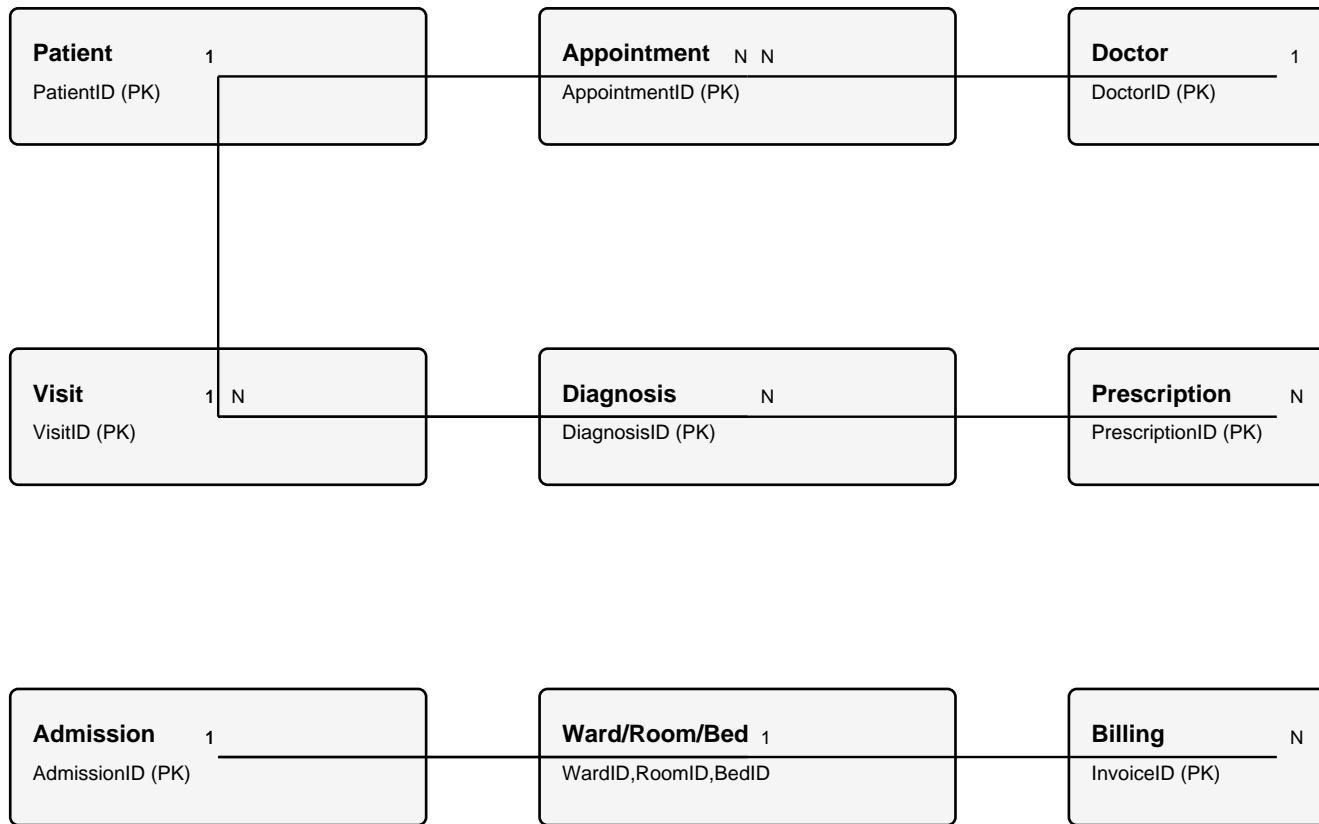


# CCAS 4.3 - Assignment 2

## Hospital Management System — ERD & Relational Model

Amr Tamer — 202200713



PK = Primary Key | FK = Foreign Key | M:N resolved using join tables (e.g., PrescriptionItem).

## Relational Data Model (Tables, PK, FK)

|                         |  |
|-------------------------|--|
| <b>Patient</b>          | PatientID PK   FirstName   LastName   Phone   DOB                          |
| <b>Doctor</b>           | DoctorID PK   FirstName   LastName   Specialty   DepartmentID FK           |
| <b>Appointment</b>      | AppointmentID PK   PatientID FK   DoctorID FK   Status   DateTime          |
| <b>Visit</b>            | VisitID PK   PatientID FK   DoctorID FK   VisitType   Notes                |
| <b>Diagnosis</b>        | DiagnosisID PK   VisitID FK   Code   Description   DoctorID FK             |
| <b>Prescription</b>     | PrescriptionID PK   VisitID FK   PatientID FK   DoctorID FK   Date         |
| <b>PrescriptionItem</b> | PrescriptionItemID PK   PrescriptionID FK   MedicationID FK   Dosage   Qty |
| <b>Medication</b>       | MedicationID PK   Name   Strength   Form                                   |
| <b>Admission</b>        | AdmissionID PK   PatientID FK   WardID FK   RoomID FK   BedID FK   Dates   |
| <b>Ward/Room/Bed</b>    | WardID PK   RoomID PK   BedID PK   |
| <b>BillingInvoice</b>   | InvoiceID PK   PatientID FK   VisitID FK   TotalAmount   Date              |