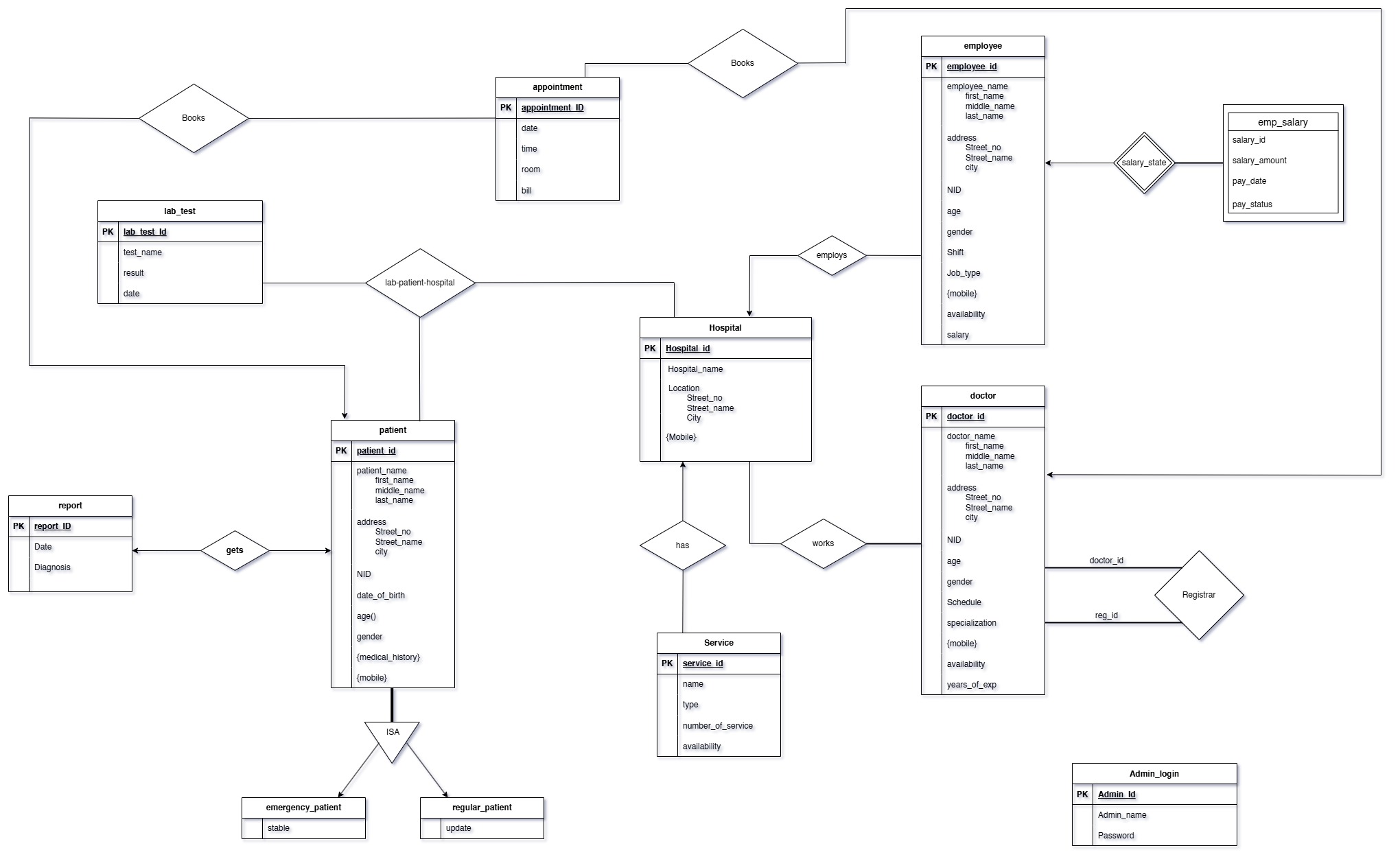
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Course : CSE311  
Section : 1  
  
Topic : Hospital Management system

**ERD:**



**Relation schema:**  
  
Admin\_login (Admin-id, Admin\_name, Password)

Hospital (Hospital-id, Hospital\_name, Street \_no, Street\_name, City)

Hospital\_Mobile (hospital-id, mobile)

Service (service- id, name, type, number\_of\_service, availability, **Hospital-id**)

Doctor (Doctor- id, first\_name, middle\_name, last\_name, Street\_no, Street\_name, city, NID, age, gender, Schedule, specialization, availability, years\_of\_exp)

Doc\_mobile(Doctor-id, mobile)

Registrar (Doctor-id, reg-id)

Works (Hospital-id, Doctor-id)

Employee (Employee -id, first\_name, middle\_name, last\_name, Street\_no, Street\_ name, city, NID, age, gender, Shift, Job\_type, availability, salary, **Hospital-id**)

emp\_salary (Employee-id, salary-id, salary-amount, pay-date, pay-status)

Patient (Patient-id, first\_name, middle\_name, last\_name, Street\_no, Street\_name, city, NID, Date\_Of\_Birth, gender)

Pat\_Mobile (Patient-id,mobile)

Pat\_Medical\_History (Patient-id, Medical-History)

emergency\_patient (patient-id, stable)

regular\_patient (patient-id, update)

Report (report-id, Date, Diagnosis, **patient-id**)

lab\_test (lab-test-id, test\_name, result, date)

lab\_patient\_hospital (Hospital-id, Patient-id, lab-test-id)

Appointment (Appointment-Id, date, time, room, bill, **Patient-id**, **Doctor- id**)

Instructions:

1. Entities: strong entities (Hospital, Patient, Doctor, Employee, Service etc.),  
   weak entities(emp\_salary)
2. Relationships:

One-to-one (patient and report),  
One-to-Many (Hospital and Employee, Hospital and Service) /Many-to-One (Doctor and Appointment),  
Many-to-Many (Doctor and hospital)

1. Specialization (emergency\_patient, regular\_patient)
2. Role(registrar)
3. Ternary Relationship (lab\_patient\_hospital)
4. Composite (address and name), multivalued (phone and medical history) and derived attributes(age)