

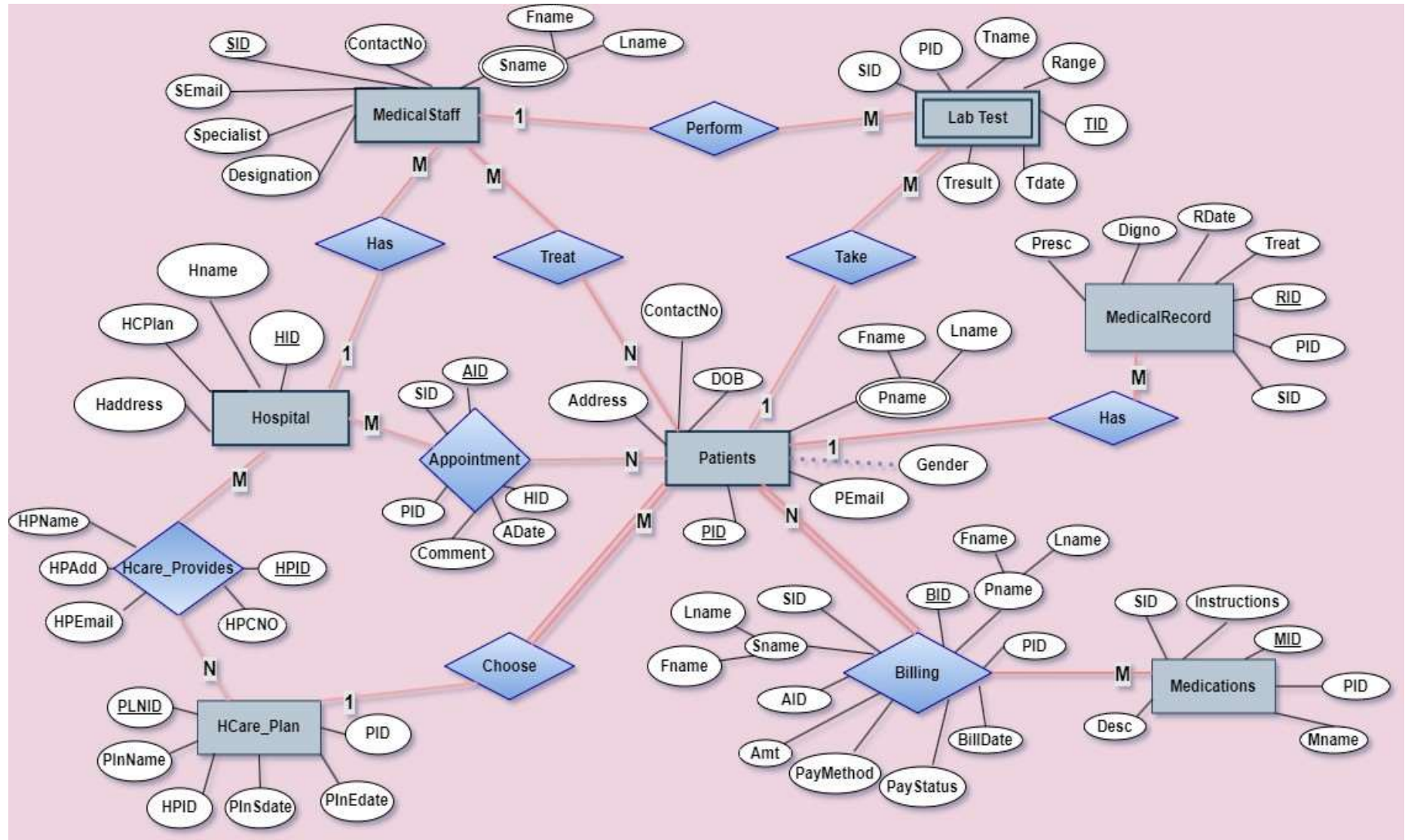
DELIVERABLE 1

Group N

PROJECT TOPIC: HEALTHCARE MANAGEMENT SYSTEMS

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Entity Relationship Diagram (ERD)



ABBREVIATIONS:

- PID - PATIENT ID
- Pname - PATIENT NAME
- fname, lname - FIRST NAME, LAST NAME
- DOB - DATE OF BIRTH
- HID - HOSPITAL ID
- Haddress - HOSPITAL ADDRESS
- HCPlan - HEALTHCARE PLAN
- SID - STAFF ID / MEDICAL STAFF ID
- Sname - STAFF NAME
- SEmail - STAFF EMAIL
- AID - APPOINTMENT ID
- ADate - APPOINTMENT DATE
- RID - RECORD ID / MEDICAL RECORD ID
- RDate - RECORD DATE
- Diagno - DIAGNOSIS
- Treat - TREATMENT
- Presc - PRESCRIPTION
- BID - BILL ID
- Amt - AMOUNT / BILLING AMOUNT
- payStatus - PAYMENT STATUS
- pmethod - PAYMENT METHOD
- MID - MEDICATION ID
- Mname - MEDICATION NAME
- desc - DESCRIPTION / MEDICATION DESCRIPTION
- HCareProviders - HEALTHCARE PROVIDERS
- HCarePlan - HEALTHCARE PLAN
- HPID - HEALTHCARE PROVIDER ID
- HPName - HEALTHCARE PROVIDER NAME
- HPAdd - HEALTHCARE PROVIDER ADDRESS
- HPCNO - HEALTHCARE PROVIDER CONTACT NO
- HPEmail - HEALTHCARE PROVIDER EMAIL
- PLNID - HEALTHCARE PLAN ID
- PlnName - HEALTHCARE PLAN NAME
- PlnSdate - HEALTHCARE PLAN START DATE
- PlnEdate - HEALTHCARE PLAN END DATE
- TID - TEST ID / LAB TEST ID
- Tdate - LAB TEST DATE
- TName - LAB TEST NAME
- Tresults - LAB TEST RESULTS

List of schema from ER diagram

- Patients(PID, Pname[fname , lname], DOB , Gender , address , ContactNo , PEmail)
- Hospital(HID , Hname , Haddress ,HCPlan)
- MedicalStaff(SID , Sname [Fname , lname], Specialist ,ContactNo , SEmail , Designation)
- Appointment(AID , PID , SID , ADate , Comment,HID)
- MedicalRecords(RID , PID , SID , Rdate , Diagno, Treat , Presc)
- Billing(BID , PID , Pname[fname,lname] , SID , sname[Lname,fname], AID, BillDate , Amt , payStatus , pmethod)
- Medications(MID , Mname, PID , SID , desc , Instructions)
- Hcare_provides (HPID , HPName , HPAdd , HPCNO , HPEmail)
- Hcare_plan (PLNID , PID , HPID , PlnName , PlnSdate , PlnEdate)
- LabTests(TID , PID, SID , Tdate , TName , TResults , Range)

Business Rules:

- A Patient can book an appointment in many Hospitals, and each hospital can enroll many patients.
- A Patient can take many lab tests, each lab test is associated with only one patient.
- A Patient can get treated by many medical staff, and also a medical staff can perform treatment to many patients.
- A Patient can have many medical records, each medical record is associated with only one patient.
- A health care plan can be chosen by many patients, each patient can choose only one healthcare plan.
- A MedicalStaff can perform many lab tests, each lab test performed is associated with only one medical staff.
- A Patient can be billed for many medications, and each medication can have 0 or many patients.
- Each medical staff is associated with one hospital, and one hospital can have many medical staff.
- A Healthcare Plan can be provided to many hospitals and each hospital can also have many health care plans.