

Medical Record Database System

Group 6

Non- Trivial Functional Dependencies (3NF Form):

- 1) id_pha, name, dose, expiry_date, time_stamp → add_quantity
- 2) name, dose, expiry_date → quantity
- 3) id_doc, id_pat, id_pha, timestamp → description, medical_cert
- 4) id_dep → relation
- 5) id_staff → position
- 6) id_fac → department
- 7) id_emp → house, city, state, pin_code
- 8) id_std → entry_no, room_no, hostile_name, guardian_name, guardian_phone, house_no, state, pin_code
- 9) id_pha → name, qualification, house_no, city, state, pin_code, joining_date
- 10) id_doc → name, qualification, field, house_no, city, state, pin_code, joining_date
- 11) id_pat → name, gender, date_of_birth

Relational Schema:

- 1) Patient(id_pat, name, gender, date_of_birth)
Primary Key – id_pat
- 2) Doctor (id_doc, name, qualification, field, house_no, city, state, pin_code, joining_date) Primary Key – id_doc
- 3) Pharmacist (id_pha, name, qualification, house_no, city, state, pin_code, joining_date) Primary Key – id_pha
- 4) Student (id_std, entry_no, room_no, hostel_name, guardian_name, guardian_phone, house_no, state, pin_code)
Primary Key – id_std
Foreign Key – id_std references Patient
- 5) Employee(id_emp, house, city, state, pin_code)
Primary Key – id_emp
Foreign Key – id_emp references Patient
- 6) Faculty (id_fac, department)
Primary Key – id_fac
Foreign Key – id_fac references Employee
- 7) Staff (id_staff, position)
Primary Key – id_staff
Foreign Key – id_staff references Employee
- 8) Dependent(id_dep, relation)
Primary Key – id_dep
- 9) Depends_on(id_dep, id_fac)

Primary Key – id_dep, id_fac

Foreign Key – id_fac references Faculty

10) Prescription(id_doc, id_pat, id_pha, timestamp , description, medical_cert)

Primary Key – id_doc, id_pat, id_pha, timestamp

Foreign Key – id_doc references Doctor

Foreign Key – id_pat references Patient

Foreign Key – id_pha references Pharmacist

11) Suggested_med(id_doc, id_pat, id_pha, name, dose, timestamp)

Primary Key - id_doc, id_pat, id_pha, name, dose, timestamp

Foreign key - id_doc, id_pat, id_pha, timestamp references Prescription

Foreign Key - name, dose references Medicine

12) Test_result(id_doc, id_pat, id_pha, timestamp, test_results)

Primary Key – id_doc, id_pat, id_pha, timestamp, test_result

Foreign Key – id_doc, id_pat, id_pha, timestamp references Prescription

13) Pres_Disease(id_doc, id_pat, id_pha, timestamp, disease)

Primary Key – id_doc, id_pat, id_pha, timestamp, disease

Foreign Key – id_doc, id_pat, id_pha, timestamp references Prescription

14) Medicine(name, dose)

Primary Key – name, dose

15) Med_salts(name, dose, salt)

Primary Key – name, dose, salt

Foreign Key – name, dose references Medicine

16) Stock(name, dose, expiry_date, quantity)

Primary Key – name, dose, expiry_date

Foreign Key – name, dose references Medicine

- 17) Updates(id_pha, name, dose, expiry_date, time_stamp , add_quantity) Primary Key –
id_pha, name, dose, time_stamp, expiry_date
Foreign Key – id_pha references Pharmacist
Foreign Key – name, dose, expiry_date references Stock
- 18) Doc_phone(id_doc, phone_no)
Primary Key – id_doc, phone_no
Foreign Key – id_doc references Doctor
- 19) Emp_phone(id_emp, phone_no)
Primary Key – id_emp
Foreign Key - id_emp references Employee
- 20) Std_phone(id_std, phone_no)
Primary Key – id_std
Foreign Key - id_std references Student
- 21) Pha_phone(id_pha, phone_no)
Primary Key – id_pha, phone_no
Foreign Key - id_pha references Pharmacist