

SQL

Tables and their Functional Dependencies :-

1) User(User_ID, Name, Date _of_birth, Medical_Insurance, Medical_History, Street, City, State)

FD= {User_ID \rightarrow Name, Date _of_birth, Medical Insurance, Medical History, Street, City, State}

2) User_phone_no(User_ID, phone_no)

FD= {User_ID \rightarrow phone_no}

{User_ID} is foreign key constraint

3) Patient(Patient_ID, organ_req, reason_of_procurement, Doctor_ID, User_ID)

FD= {Patient_ID, organ_req \rightarrow reason_of_procurement, Doctor_ID, User_ID}

{User_ID, Doctor_ID} are foreign key constraints

4) Donor(Donor_ID, organ_donated, reason_of_donation, Organization_ID, User_ID)

FD= {Donor_ID, organ_donated \rightarrow reason_of_donation, Organization_ID, User_ID}

{User_ID, Organization_ID} are foreign key constraints

5) Organ Available(Organ_ID, Organ_name, Donor_ID)

FD= {Organ_ID \rightarrow Organ_name, Donor_ID}

{Donor_ID} is foreign key constraint

6) Transaction(Patient_ID, Organ_ID, Donor_ID, Date_of_transaction,

Status)

FD={Patient_ID, Organ_ID -> Donor_ID, Date_of_transaction, Status}

{Patient_ID, Donor_ID} are foreign key constraints

7) Organization(Organization_ID, Organization_name, Location,

Government_approved)

FD={Organization_ID -> Organization_name, Location, Government_approved}

8) Organization_phone_no(Organization_ID, phone_no)

FD={Organization_ID -> phone_no}

{Organization_ID} are foreign key constraints

9) Doctor(Doctor_ID, Doctor_name, Department_name, Organization_id)

FD={Doctor_ID -> Doctor_name, Organization_id}

{Organization_ID} is foreign key constraint

10) Doctor_phone_no(Doctor_ID, phone_no)

FD={Doctor_ID -> phone_no}

{Doctor_ID} is foreign key constraint

11) Organization_head(Organization_ID, Employee_ID, Name, Date_of_joining, Term_length)

FD={Organization_ID, Employee_ID -> Name, Date_of_joining, Term_length}

