## Assignment\_1 Entity Descriptions

PERSON: Person is an entity with attributes (personID: int, age: int, gender: str, ethnicity:

str and phoneNO: str). The primary key for the entity is personID.

It has a ISA relationship with PATIENT and EMPLOYEE (ie. Patient is a Person and

Employee is a Person)

PATIENT: Patient is an entity with attributes (personID: int, dateOfDeath: Date)

personID is a foreign key from PERSON The primary key for Patient is personID Patient has a "ISA" relationship with *PERSON* 

Patient has a many-to-many relationship with DISEASE Patient has a total many-to-one relation with LABRECORD

Patient has a total many-to-one relation with ADMISSIONRECORD

EMPLOYEE: Employee is an entity with attributes (personID: int, role: str, hName: str, deptID:

int)

personID is a foreign key from PERSON hName is a foreign key from HOSPITAL deptID is a foreign key from DEPARTMENT The primary key for Employee is personID Employee has a "ISA" relationship with PERSON

Employee has a partial Many-to-One relationship with DEPARTMENT

Employee has a total Many-to-One relationship with HOSPITAL

DISEASE: Disease is an entity with attributes (diseaseID: int, category: str, name: str)

The primary key for Disease is DiseaseID

Disease has a many to many relationship with PERSON

LABRECORD: LABRECORD is an entity with attribues (labID: int, personID: int)

personID is a foreign key from PERSON The primary key for LABRECORD is labID

LABRECORD has a total Many-to-One relationship with PATIENT

LABRECORD has a Totally Participation Many-to-Many relation with MEDICALTEST

MEDICALTEST: MedicalTest is an entity with attributes (mtID: int, mtName: str, mtType: str)

The primary key for MedicalTest is mtID

MedicalTest has a Totally Particiaption Many-to-Many relation with LABRECORD

ADMISSIONRECORD: ADMISSIONRECORD is an entity with attributes (aID: int, aDate: Date,

dDate: Date, personID: int, hName: str) personID is a foreign key from PERSON hName is a foreign key from HOSPITAL

The primary key for ADMISSIONRECORD is aID

ADMISSIONRECORD has a total many-to-one relationship with HOSPITAL

ADMISSIONRECORD has a many-to-many relationship with ICU

ADMISSIONRECORD has a total many-to-one relationship with PRESCRIPTION ADMISSIONRECORD has a total many-to-one relationship with PATIENT

PRESCRIPTION: PRESCRIPTION is an entity with attributes (rxNO: int, startDate: date, endDate:

date, aID: int)

aID is a foreign key from ADMISSIONRECORD

Primary key for Prescription is rxNO

PRESCRIPTION has a total many-to-one relationship with ADMISSIONRECORD PRESCRIPTION has a Totally Participation many-to-many relationship with DRUG

DRUG: DRUG is an entity with attributes (dID: int, dName: str, dType: str, dManf: str)

DRUG primary key is D ID

DRUG has a totally participation many-to-many relationship with PRESCRIPTION

HOSPITAL: HOSPITAL is an entity with attributes (hName: str, hAddress: str)

HOSPITAL primary key is hName

HOSPITAL has a many-to-many relationship with DEPARTMENT HOSPITAL has a total many-to-one relationship with EMPLOYEE

HOSPITAL has a total many-to-many relationship with ADMISSIONRECORD

HOSPITAL has a total many-to-one relationship with ICU

HOSPITAL is a supporting entity for ICU

DEPARTMENT: DEPARTMENT is an entity with attributes (deptID: int, deptName: str)

Primary key for Department is deptID

DEPARTMENT has a partial many-to-one relationship with EMPLOYEE

DEPARTMENT has a many-to-many relationship with HOSPITAL

ICU is a weak entity with attributes(hName: str, icuName: str, icuCap: int)

hName is a foreign key from HOSPITAL

ICU primary key is (hName, icuName) hName supports icuName

ICU has a total many-to-one relationship with HOSPITAL

ICU has a many-to-many relationship with ADMISSIONRECORD

HOSPDEPT: HOSPDEPT is an entity on the relationship between HOSPITAL and DEPARTMENT

its attributes are (hName: str, deptID: int, capacity: int)

hName is a foreign key from HOSPITAL deptID is a foreign key from DEPARTMENT HOSPDEPT primary key is (hName, deptID)

DIAGNOSIS: DIAGNOSIS is an entity on the relationship between PATIENT and DISEASE its

Attributes are (personID: int, diseaseID: int, diagData: str)

personID is a foreign key from PATIENT diseaseID is a foreign key from DISEASE

DIAGNOSIS primary key is (personID, diseaseID)

PATIENTTEST: PATIENTTEST is an entity on the relationship between LABRECORD and

MEDICALTEST. Its attributes are (labID: int, mtlD: int, dateOfTest: date,

valOfTest: int, outcome: str)

labID is a foreign key from LACRECORD mtID is a foreign key from MEDICALRECORD

ICUADMISSION: ICUADMISSION is an entity on the relationship between ADMISSIONRECORD

ICU. Its attributes are (aID: int, hName: str, icuName: str, enterDate: Date,

leaveDate: date)

aID is a foreign key from ADMISSIONRECORD (hName, icuName) is a foreign key from ICU

ICUADMISSION primary key is (aID, hName, icuName)

PRESCRIBED: PRESCRIBED is an entity on the relationship between PRESCRIPTION and DRUG

Its attributes are (rxNO: int, dID: int, dosage: int)

rxNO is a foreign key from PRESCRIPTION.

dID is a foreign key from DRUG

PRESCRIBED primary key is (rxNO, dID)