

MyHospitalApp Project

CSCI 380 Database Management Systems

Project Part C – Design

Version: 1.0.0

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Part 1: Table Specification

- ☒ Add key information to the specification of each table.

AFFILIATED_WITH (Physician, Department, PrimaryAffiliation[1])

Appointments (AppointmentID, Patient, PrepNurse, Physician, StartDateTime, EndDateTime, ExaminationRoom[1])

Blocks (BlockFloor, BlockCode)

Departments (DepartmentID, Name[30], Head)

Medications (Code, Name[30], Brand[30], Description[30])

Nurses (EmployeeID, Position[30], Registered[1], Person)

ON_Call (Nurse, BlockFloor, BlockCode, OnCallStart, OnCallEnd)

Patients (PatientID, InsuranceID, PCP, Person)

PERSONS (SSN, FirstName[30], LastName[30], Address1[30], Address2[30], City[30], State[2], ZipCode[10], Phone[30])

PHYSICIANS (EmployeeID, Position[30], Person)

Prescribes (Physician, Patient, Medication, PrescribedDateTime, Appointment, Dose[30])

Procedures (Code, Name[30], Cost)

Rooms (RoomNumber, RoomType[30], BlockFloor, BlockCode, Unavailable[1])

Stays (StayID, Patient, Room, StayStart, StayEnd)

Trained_In (Physician, Treatment, CertificationDate, CertificationExpires)

Undergoes (Patient, Procedures, Stay, DateUndergoes, Physician, AssistingNurse)

Part 2: Cardinalities

☒ Fill in the table with the cardinalities.

Relationship			Cardinality	
Parent	Child	Type	Max	Min
PERSONS	PHYSICIANS	ID-dependent inclusive subtype	1:N	M:O
PERSONS	Nurses	ID-dependent inclusive subtype	1:N	M:O
PERSONS	Patients	ID-dependent inclusive subtype	1:N	M:O
PHYSICIANS	AFFILIATED_WITH	ID-dependent associative	1:N	M:O
Department	AFFILIATED_WITH	ID-dependent associative	1:N	M:O
PHYSICIANS	Appointment	Strong	1:N	M:O
Nurses	Appointment	Strong	1:N	M:O
Patients	Appointment	Strong	1:N	M:O
Prescribes	Medications	ID-dependent multi-valued	1:N	O:M
Appointment	Prescribes	ID-dependent	1:1	M:O
PHYSICIANS	Prescribes	Strong	1:N	M:O
Patients	Prescribes	Strong	1:N	M:O
Blocks	Rooms	Strong	1:N	M:O
Nurses	ON_Call	ID-dependent associative	1:N	M:O
Blocks	ON_Call	ID-dependent associative	1:N	M:O
Patients	Stays	Strong	1:1	M:O
Rooms	Stays	Strong	1:N	M:O
PHYSICIANS	Trained_In	ID-dependent	1:N	M:O
Trained_In	Procedures	ID-dependent multivalued	1:N	O:M
PHYSICIANS	Undergoes	Strong	1:N	M:O
Nurses	Undergoes	Strong	1:N	M:O

