3DB3 Assignment 1

Entity	Attributes	Constraints
Persons: Parent entity set for physicians, nurses and patients	 PID First Name Last Name Gender Date of Birth Street City Province Postal Code 	 CHECK constraint on gender as to "male" or "female" PID is unique and distinct
Physicians : Child entity set for Persons	 Number of years in practice Annual Salary (CAD) Speciality 	
Nurses : Child Schema entity set for Persons	 Number of years in practice Annual Salary (CAD) 	
Patient : Child entity set for Persons	1. Health Insurance	 Check constraint on 'Health Insurance Type with value of 'public', 'private', or 'self-funded'
Hospital : Entity Set with all hospitals	 Name Street Address City Annual Budget (CAD) 	1. Hospital name should be unique and distinct
Department : Weak Entity Set with all departments	Name Annual Budget Hospital name	
Phone Numbers : Weak Entity Set with all phone numbers	 Number Contact Type 	1. Check constraint on 'Contact Type' with values as 'home', 'work', and 'phone'
Medical Tests : Weak Entity Set with all medical tests	 MTID Name of Test Fee Test Date Results 	1. 'MTID' should be unique and distinct
Drugs : Entity Set with all prescribed drugs	 Code Name Category Unit Cost 	1. 'Code' should be unique and distinct and have a length of 8

Relationship	Attributes	Constraints
Admit : Relationship between	1. Admission Date	Many to Many
hospitals and patients		
Prescribe : Ternary	 Date of Prescription 	Many to Many
Relationship between	2. Dosage	
physicians, drugs and patients		
Diagnose : Relationship	1. Disease	One Physician, Many Patients
between physicians and	2. Date of Diagnosis	
patients	3. Prognosis	
Contain : Relationship between		Many to Many
hospitals and departments		
Care : Relationship between		Many Nurses, One
nurses and patients		Patient
U ndergo : Relationship		One Patient, Many Medical
between Patients and Medical		Tests
Tests		
Has : Relationship between		One Person, Many Phone
Persons and Phone Numbers		Numbers
Belongs To : Relationship		One Physician, Many
between Nurses, Physicians,		Departments, Many
and Departments		Nurses