DMS IT2040 DMS Tutorial 2

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**Question 1**

Patient(ID, Fname, Lname, Sex, Age, DocID)

Patient.ContactNo(ID, ContactNo)

Treatment(ID, Result, Time)

Medicine(Code, Description)

Billed\_for(patientId, TreatmentId, Code, Date)

Room(Id, Type, extension, PatientId)

Employee(id, qualification, phone, salary, experience, Name) \*\*USES OPTION 1 cause employee could be more than whats mentioned here

Receptionist(id)

Receptionist\_extension(id, extension)

Nurse(id)

Taken\_care(nurseId, roomId)

Doctor(id, workplace, specialty, Hour, type)

**Question 2**

Organization(name, phoneNo)

Award(name, year, awardname, actorId, title)

MoviePerson(id, birthday, address, name)

Actor(id, picture, salary)

Acted(actorId, title)

Director(id)

Film(year, title, type, directorId)

**Question 3**

Option 1 to be taken since person could be more than faculty member and student, where other employees could be in the entity of person.

Person(SSN, bdate, address, Fname, Lname, Mname)

Student(SSN, Class)

Faculty(SSN, Rank, Foffice, phone, Rank, Salary)

Instructor\_Researcher(SSN)

Lecturer(SSN)

Teach(CN, LecSSN)

Undergrad(SSN, GPA, courseId, batchNo)

Course(CN, Cname,DeptNo)

Grad\_Student(SSN)

Grad\_student\_Degrees(SSN, Degree, year, LecturerSSN)

Batch(batchNo, noOfStudent)

Department(dname, dphone, dNo, FacultySSN)

Quiz Attempts

Employee(eid, ename, phone) \* Option 1

ATController(eid)

Pilot(eid, hours)

AuthorizedTo(pilotEid, model)

Airplane(regNo, model, HangerId)

Hanger(id, location, capacity)

AirplaneType(model, capacity, weight)

Fly(regNo, Piloteid,ATControllerEid)

Engineer(eid)

Quiz Attempt 2

Option 1 has to be chosen for Lectuere ISA because, both parent class and sub class has other relationships.

According to the question ISA has covering constraint.

Lecturer(id, contactNo, name)

VisitingLecturer(lecId, hours, rate)

PermenantLecturer(lecId, Salary)

Project(projId, name, StudentId)

Payment(payId, date, amount, projId)

Teach(lecId, courseId)

Course(cid, cname, credits)

Enrol(cid, id)

Student(id, name, gpa)