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COMP 421

Assignment 1

Question 1:

1. See attached Pdf.
2. Relational Model

* Employee(eid, name, salary, address)
* Senior(eid, name, salary, address, TimeSinceASenior) eid references Employee
* Project(Project Name, budget, max enrollment, objective, eid) eid references Employee
* Document(DocID, title, Project Name) ProjectName references Project
* Version(VersionNumber, DocID, eid) DocID references Document, eid references Employee
* Schedule(schID, ProjectName) ProjectName references Project
* Step(stepID, stepNum, schID, MilestoneObjective, EndTime, budget, Begin Time) schID references Schedule,
* Aspect(AspID, AspectName, Points, StepID) stepID references Step
* End of Step Report(repID, Report, eid, stepID) stepID references Step, eid references Employee
* Evaluation(evID, Grade,AspID, eid) AspID references Aspect, eid references Employee
* Contributes(eid,ProjectName, Date Assigned) eid references Employee, ProjectName references Project

Question 2:

1. Incorrect: The thick line from papers to authors shows that the system can record 1 to many scholars
2. True, there is no participation constraint on papers submitted to conference.
3. This is false, the Scholars relationships can be folled to the accept attribute on the submission relationship, those can be counted.
4. True, There is no participation constraint between Scholar and authors.
5. True, there no constraint to express this within the E/R diagram
6. False, There is no primary key on reviews to differentiate multiple reviews of the same paper
7. True, the review relationship is independent of the submits relationship
8. False, The Paper can only be submitted to one conference by the arrow between paper and submits.

Question 3: