

Purdue University
Computer Science Department
CS44800 Homework 2 (Feedback)
Fall 2019

As usual, provide enough detail to support your answers. Make sure to answer all the questions. Also, if you are planning to submit your assignment handwritten, please write legibly. We encourage you to itemize your answers.

Most common errors were:

Question 1.

- No referential constraints are violated in (a), (b) and (d). For example, Employee.Super_SSN references Employee.SSN (same table). Since Super_SSN is not the PK, NULL values are OK. NULL values are only not accepted in the PK. Also, Dept_Locations.Dnumber references Department.Dnumber. It is perfectly fine to remove a tuple in Dept_Locations; however, removing a tuple in Departments that is being referenced by Dept_Location is not possible and indeed will violate a referential constraint.
- Missing to explain a way to enforce different than reject the operation.
- Modifying the operation (e.g., replacing data that was intended to be inserted).
- Some students argue about semantic constraints violation. If these were explained there were considered correct.

Question 2.

- Missing to explain the reason behind the composite attribute (break down the attribute).

Kindly remember to expand answer in detail for homework 2. We encourage you to answer the questions using your own words and not just copy text from the Textbook.