Purdue University  
Computer Science Department  
CS 448: Introduction to Database Systems  
Prof: Bharat Bhargava  

CS 448 – Homework #3 (3 points)  

Due: 02/22/2018, before class  


**Question 1** (1 point)  
Problem 18.13. (page 689 in 7th edition)  
Do the work for Q1 (page 189) and Q1A (page 191) and do part b) of the question.  
Or  
Do the work for Q1 (page 100) and Q1A (page 101) and do part b) of the question.  

**Question 2** (1 point)  
Problem 14.2. (page 496 in 7th edition)  
Or  
Problem 15.2 (page 537 in 6th edition)
Discuss insertion, deletion, and modification anomalies. Why are they considered bad? Illustrate with examples.

**Question 3** (1 point)
Problem 14.5. (page 496 in 7th edition)
Or
Problem 15.5 (page 537 in 6th edition)

What is functional dependency? What are the possible sources of the information that defines the functional dependencies that hold among the attributes of a relation schema?