The purpose of a worksheet is to provide a support structure for your study and to provide better coverage of routine introductory exercises prior to completing more challenging homework assignments. Much of the text comes from questions that arise during the course.

Please attempt the worksheet on your own. Answers are provided under the Practice module.

 To receive credit for completing the worksheet, you must write 'Done' in a textbox on D2L submission folder when you have finished the worksheet. Do not paste your work. Just say 'Done'.

1. Consider the relation R(L,M,N,O,P) with functional dependencies:

O -->N, NP --> L, O -->L, LP -->O

Find all keys.

2. Suppose relation R(A,B,C) currently has only the tuple (0,0,0), and it must always satisfy the functional dependencies A -->B and B -->C. Report a tuples that is a legal insertion into R (i.e., complies with the FDs) and another tuple that is an illegal insertion into R (violates the FDs).

3. Obtain the minimal cover of the following set of FDs:

F= {

ABC → D

AB → F  
BF → C }