Homework Due 2018-03-02 by 5:00 pm

1 General Instructions

Please read these instructions carefully for each assignment, though they generally do not vary much between the assignments.

1. You need to follow carefully the specific instructions for the assignment as written below.

   It is advisable to print out this document and check off various points as they are addressed. It is easy to miss something when switching between the assignment and the solution on a single screen, especially on a laptop.

2. If you have questions concerning this homework email Jiaxuan Lu, mailto:jl5006@nyu.edu *in the way specified in the course description.*

3. Submit your homework in electronic form by uploading it to NYU Classes by the due date and time. Use only permitted software and format. E.g., if you are asked for a relational database specification using SQL Power Architect than that's what you must submit.

4. If you submit a scanned, handwritten assignment, it has to be written neatly, that is, it should be neatly divided into lines just as a typeset document, etc.

5. Show *all* your applicable work (other than for reading assignments, if any).

6. If you want to refer to a specific line in this document, refer to the small numbers in the left margin.

7. Your solution should be uploaded as a single `zip` file containing all the files that you need to produce. Assuming that your Net ID is abc123 and you are submitting your solution to Homework due 2034-02-15, your zip file should be named `20340215abc123.zip`, of course you need to specify the correct date and the correct Net ID.

8. Do not email your submission to any of the assistants. If you run into problems uploading your solution and the time for the submission has passed, please email Zvi Kedem *in the way specified in the course description* and if you have a solution, email the solution also.

9. Until the deadline that the system imposes you can resubmit your homework as many times as you like and you may want to submit it relatively frequently in case something happens to your partial work on your machine.

10. In addition, there is a one-hour automatic extension, which you can use without any penalty. But do not count on it as it is only there in case you have communication problems and did not succeed in uploading the solution because of them.

11. **Be sure to follow the academic integrity rules listed in the course description posted on NYU Classes**. The department and the GSAS treat academic integrity very seriously and I am required to report all possible violations.

2   Assignments

2.1   Description

1. Read and make sure you understand and know how to use the material in Unit 03.

2. A PDF file Homework_3_ER.pdf of two pages is enclosed. It is very similar to the solution for the second Homework, but the specifications are not necessarily the same so please read them carefully.

   For the application in that file, use SQL Power Architect to produce a diagram using the procedure and Crow's feet notation we demonstrated in class and in UniversityPowerArchitect.architect in the folder `Resources/Extras/ExtrasForUnit03`. Your diagram should be compact but readable and unambiguous.

   Please also note

   (a) Please pay attention to all the annotations on the second page of the Homework_3_ER.pdf.

   (b) Your solutions should include a second text file with annotations reflecting *everything* that the relational implementation needs to satisfy and which cannot be described in the first file using SQL Power Architect. Please use only .txt format.

   (c) Everything in Homework_3_ER.pdf needs to be specified in the solution. If it can be specified using SQL Power Architect, it *must* be put in the diagram and *not* put in annotations. If it cannot be specified using SQL Power Architect, it *must* be put in the annotations. It is for you to figure out where everything goes.

2.2   What to submit

Please submit a single zip file as described in item 7 of section 1.

The archive should contain two files

   (a) The drawing in the original format as produced in SQL Power Architect

   (b) The annotations in a text file (`txt` extension)

These file names must be consistent with your zip file name. If your zip file named `20340215abc123.zip`, your architect file must be named `20340215abc123.architect` and your txt file must be named `20340215abc123.txt`. In the text file, in front of the annotations, put

   (a) Your name

(b) Your N-number

(c) Your Net ID

(d) Information about the computer on which you have prepared your diagram, one of the following

- Your own computer
- Somebody else's computer and specify whose
- A lab computer