

Homework due on 2021-09-21 by 23:59:00 New York Time

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1 General Instructions

1. You need to follow carefully the 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 with a relatively small screen.

If you do not have access to a printer, at least review your solution before the submission to make sure that you did all that you were requested to do and only what you were requested to do.

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

3. If you have questions concerning this homework email Chengyu Chen, <mailto:cc7027@nyu.edu>, in the way specified in the course syllabus.

To be sure that you get an answer to your question before the submission deadline, *do not delay your question to the date on which the assignment is due.*

If you still have unresolved questions, email Zvi Kedem, <mailto:zk1@nyu.edu>, including all relevant correspondence with the assistant(s) listed above, in the way specified in the course syllabus.

4. Submit your homework in an electronic form by uploading it 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 and the `.architect` format, then that's what you must submit.

5. If you submit a scanned, handwritten assignment when permitted, it has to be written neatly, that is, it should be neatly divided into lines just as a typeset document, etc. You may submit a handwritten assignment only when that is explicitly allowed. And, unless stated otherwise, you must submit such a handwritten assignment as a file in PDF format only.

6. It is important that you follow the directions precisely. Also, please *check* that you submitted what you intended to submit, as you are responsible for making sure of that. The best way to do is to download what you submitted to check that.

And the best way to manage your work is to dedicate a folder/directory to each assignment.

7. Do not email your submission to any of the assistants. If you did not submit your solution on time, please email Zvi Kedem, <mailto:zk1@nyu.edu>, in the way specified in the course syllabus with an explanation of what has happened, and if you have a solution (possibly partial), email the solution also.

If you do need to submit the solution by email, and *only* if you need to submit by email because you are late or for other reasons, please follow the format as described next. Assuming that you are submitting your solution to Homework due 2034-02-15 and your Net ID is abc123, all the files of your homework should be emailed as a zip file named 20340215abc123.zip. Of course you need to specify the correct date and the correct Net ID.

Do not communicate with any of the graders concerning a late submission.

8. Be sure to follow the academic integrity rules listed in the posted syllabus. The department, the GSAS, and NYU treat academic integrity very seriously and we are required to report all possible violations.

9. **Note:** Due to the unusual circumstances, we will be more able to extend deadlines, but generally only on a one-by-one case. All such requests need to be addressed to Zvi Kedem, <mailto:zk1@nyu.edu> in the way specified in the course syllabus, with a reason for such a request.

2 Homework

Reminder: If you are not officially registered in the class and the class does not show on Albert for you, do not submit any assignments.

Please read and follow carefully the instructions in [Section 1](#).

2.1 Description

There are a number of small, mostly trivial, assignments (though the description is long).

Precise submission details are given in [Section 3](#).

2.2 Assignments

1. You need to have a CIMS computer account. If you do not have one yet please follow <https://cims.nyu.edu/webapps/content/systems/userservices/accounts/obtain> to request an account. Your request should generally be automatically granted.
2. Read the syllabus for the class, `2433.pdf`. Decide whether you fully understand it. If you do not, state what needs to be clarified for full understanding.
3. Please read the file `University01.pdf` and follow the instructions in it.
4. As part of this assignment you will make sure that you are able to produce an ER diagram and an associated text file when required. In this assignment,
 - Reproduce the diagram `ER01.pdf` (it may be difficult to see, but note that the line under C is dotted) and modify the file `text01.txt`, both of which are part of this archive.

The diagram has the following shapes

- rectangles (use the not-rounded version)
- diamonds (rhombuses)
- rectangles with diamonds inside
- ellipses
- triangles

The diagram has the following types (formats) of lines

- regular
- double
- dashed
- with and without arrows

The diagram has the following types (formats) of text

- regular
- underlined
- underlined by dots

To produce your diagram, use draw.io <https://www.draw.io/>, which is free and does not require any installation, but installation can generally be done, so you can work locally, if you like. Use the **Basic** set of

templates and in it use the **Entity Relation** template; if it does not have what you need to complete the diagram, use also the **General** template. Try to fit it on one page. The *native format* you will use is **drawio**.

Start with the given **ER01.drawio**. Your drawing diagram should be a duplicate of the one in this assignment but put your own NetID in the cloud drawn there.

Don't be fanatical about the faithfulness of the duplication. It is enough to make sure that the various shapes are the same as the ones given and placed roughly in the same locations, that the lines are recognizable as the ones given, that the shapes are connected as in the diagram (note particularly that sometime connections are to vertexes and sometime to edges so reproduce that), and that the text in the shapes is formatted as given. But do try to be neat.

If the system does not allow you to upload **ER01.drawio**, state so in **Item 1d** of **Section 3**.

3 What to submit

Please upload 3 files, named *exactly* as specified and in the format *exactly* as specified.

1. **text01.txt** in the text format, by modifying the file in this assignment.

In that file

- Replace the Metadata with your information
- Leave the Annotations as they are
- Place your responses to items **Item 1**, **Item 2**, and **Item 3** of **Section 2.2** by placing appropriate text after the item label as listed below (so your first item will be labeled "(a)"):

- (a) Do you have a CIMS account *or* have you requested such an account? If one of the above holds just write "Yes".

If neither holds, explain why.

- (b) Have you read and understood the syllabus? If that's the case just write "Yes".

If that's not the case state that you are contacting the instructor by email, and send email to Zvi Kedem, <mailto:zk1@nyu.edu> with the subject line "2433 questions on syllabus" listing any issues that need clarification.

If neither holds explain why.

- (c) Have you read the case study **University01.pdf** and have you considered what it could mean? If that's the case, just write "Yes".

If you have not done so, explain why.

- (d) If you cannot upload any of **ER01.drawio**, state so. Otherwise leave this item empty.

2. A file with a diagram in the native format as produced by draw.io. The file should be called **ER01.drawio**.

3. A file with a PDF version of the diagram you have produced. The file should be called **ER01drawio.pdf**.