

DAMG6210

Notes for September 23, 2022 – Friday Class

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The objective is to make 10 English questions that you want your database to answer. We are trying to find the purpose of the database. What does your database do? The purpose is to make things useful.

Can we think of questions that can be asked without looking at the data?

1. Example – International students have job restrictions.
2. Can I work at Harvard?
 - a. For something like this to happen, an agreement between Northeastern and Harvard would probably facilitate jobs in Harvard for Northeastern students.
 - b. Information like – the contact number of the person at Harvard can be included as part of the database.

Database development is an iterative process that goes back and forth. After getting an abstraction of what we are trying to do, we can proceed to get data from multiple sources.

Some questions that can be asked for the jobs database:

1. Are there jobs at Northeastern University as an international student in the research field?
2. Are there research jobs for international students at NEU?
 - a. How to make a database to answer this question?
 - b. We can make it searchable by subject? What if people want to do web development in that department to help the research group with a better website?
 - c. What are some good questions that people care about? – our objective
3. What is my probability of getting an on-campus job?
4. Do I require a work-study permit for doing this on-campus job?
5. As an international student, how do I apply for work-study jobs?
 - a. Which faculties are aware that students can be hired through work-study?
 - b. What are the factors that make it more likely for an international student to get approved for work-study?
 - c. How do we make the professors aware that there are eligible work-study international students?
6. Does this particular company give me H1B sponsorship?
 - a. Which companies give which types of work visas?
 - b. How does NEU hire?
7. Which companies can hire an international student?
 - a. A company should have an EIN number
 - b. If I'm a business, how do I hire an international student?
 - i. Check for STEM
8. What companies would be willing to hire international students part-time while the students are studying such that it does not violate the visa status?
9. Who are the people who are hiring at the Northeastern research institutes?

10. What skills are the most important for me to get a job?
 - a. Should I learn statistics or calculus?
 - b. Where to learn them from?
 - c. How long will it take me to really learn this skill? What's the timeframe?
11. Where are the job listings for Northeastern University?
 - a. There can be interviews of actual employees on how they got their jobs