The Paper:
Write a 10-page paper on one of the following topics:

- Database security (Chapter 30)
- NoSQL Databases (Chapter 24)
- Distributed database concepts (Chapter 23)
- Query Optimization (Chapter 19)
- Big Data / MapReduce / Hadoop / HDFS (Chapter 25)

Select one of the topics that is of interest to you, read the chapter to gain some background information on this topic, then find at least two additional papers from (ACM, IEEE or other reputable sources) about your chosen topic. Make sure that at least one of the papers is from the last 5 years.

Target Audience:
Your target audience for this paper is individuals who have had a basic undergraduate database course.

Format of the paper:
- Use the ACM or IEEE format for publishing to write your paper. Note, the font type and size, figures, tables, two column format, [https://www.acm.org/publications/proceedings-template](https://www.acm.org/publications/proceedings-template), or [https://www.ieee.org/conferences_events/conferences/publishing/templates.html](https://www.ieee.org/conferences_events/conferences/publishing/templates.html)

The outline of the paper:
- Cover Page
- Abstract (No more than 300 words)
- Introduction
  - Statement of problem
  - Importance of the problem
- Literature Review (overall topic, mostly from the text, etc.)
  - More detailed explanation of the topic
  - Discussion of traditional approaches (discussed in the text)
- Your Focus Area
  - Discussion of innovative approaches/algorithms, contributions of the papers. (discussed in the scholarly journals, proceedings, etc.)
- Conclusion (No more than 300 words)
- References and Bibliography
- Other sections may be added at your discretion

Create a 15-minute presentation:
- Your presentation can be done live in class, or by creating a video that we will display in class). After the presentation we will have 5 minutes of Q/A if there are questions.

What to hand in?
- Hard copy of the paper.
- Electronic copy of the paper (Word or PDF)
- Copy of your PowerPoint presentation (schedule your presentation during the last two weeks of the course)