

CMPT 454 Report

You are to write a report on a topic related to databases, this is worth 6% of your final grade.

Requirements

Select an interesting database topic. You are to write a report of a *minimum* of 2,000 and a *maximum* of 3,000 words on your chosen topic. The report should discuss the topic and should be in your own words.

You have a large amount of leeway in your topic selection. The basic guidelines are as follows:

- It should be related to databases (!)
- We should not have covered it (in detail) in class, or in CMPT 354
- The report should not be a summary of a single informal source, such as a blog post
- In contrast, and ideally, your report may be a report on a recent academic paper in the database field or a summary of technical documentation related to some database technology
- You should clear your topic with me before starting work on it – see timeline

Suggested Topics

Find something that interests you. There are a lot of recent developments in database technology that we have not covered in detail in CMPT 454. Here are just a few suggestions – but do not feel any obligation to select something from this list.

- In-memory databases
- The effect of modern storage hardware on RDBMS
- Cloud databases and database as a service
- No SQL databases – note I am not particularly interested in a review of the different types of No SQL DBMSs – if your report is on this subject, I would want you to delve into details about a type or system
- Query optimization algorithms (not covered in 454)
- Other algorithms that support some technology (e.g. map-reduce)
- Big data technology, techniques or algorithms
- Index structures
- ...

Timeline

Deadlines for the report are as possible

- Decide on a topic; email me with a brief description of your topic – 28th February
- Finalize topic – 4th March
- Submit final report – 18th March

Assessment

The report and presentation will be assessed as follows:

- Depth and accuracy of content is appropriate – 4
- Clarity of explanation – 4
- Report is well organized and uses correct grammar and sentence structure – 2

The report should be substantially in your words – excessive use of quotations will be penalised.

Submission

You should submit your report as a .pdf file to the [CoursSys submission server](#). The online submission is due by 11:30am on Wednesday March 18th. You must also submit a hardcopy to me by the start of class on Wednesday March 18th.

[CMPT 454 Home](#)

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