

# CSC 530: Database Theory (paper review)

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## Scope

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Graduate students are expected to conduct a **summary** review of at least two (2) **recent** and **highly cited** research papers that describe a modern database theory topic.

## Possible areas to choose from

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- Scalable data analysis and query processing.
- Distributed databases.
- Consistency, concurrency, coordination, and reliability in databases.
- Time series databases.
- Database security & secure data processing.
- Graph databases.
- Suggest your own.

**\*You must send me the papers of interest for the approval no later than August 1.**

## Requirements

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**Must and only include following (in maximum limit):**

- Problem Statement (up to 3 sentences);
- Hypothesis (up to 1 sentence);
- Specific Aims (up to 5 sentences, enumerated);
- Domain Importance (up to 5-7 sentences);
- Previous Work (up to 5-7 sentences);
- Data Importance and format (up to 5 sentences);
- Data example (up to 5 sentences);
- Validation/Success Criterion (up to 5 sentences);
- Methodology (up to 10 sentences);
- Key Results (up to 5-7 sentences);
- Key Conclusions (5 sentences);
- References (as needed; not within sentence limit).

Submit a review document in pdf format on Moodle.

**DUE DATE – Tuesday, August 8.**