

## CSE 4331/5331 Data Models and Implementation

### Modules III and IV Summary & Test 3 details

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### Test 3 Details

- **December 5, 2023 (Tuesday) during class period**
  - ❖ I will make the paper for 60 mins; you will have 80 mins
  - ❖ You should not run out of time
- ~~If you are under quarantine and cannot take the test in person, please let me know at least a day or two prior to the test~~
  - ~~I can setup online test taking with lock down browser and Respondus~~
- **Answer questions in the space provided**
  - ❖ Anything outside that will not be considered or graded
  - ❖ You will do the whole test/exam on the test sheet and submit it at the end

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### Online Details

- ~~Make sure your answers are legible and easy to read~~
  - ~~I have shown some good and bad examples!~~
- ~~2.0 hours is more than sufficient to finish and upload~~
- ~~No additional time for upload~~
- ~~You need to come out of LDB (submit) and then upload on the assignment setup for that~~
- ~~Clarifications NOT POSSIBLE for those taking online test~~
  - ~~Therefore, write any assumptions clearly as part of the answer sheet~~

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### Material for Test 3 includes

- **Module III**
  - ❖ Big Data and its Characteristics
  - ❖ Cloud computing
  - ❖ Map/Reduce
    - Read from the book and go over my slides
    - Go over examples of solving problems using map/reduce
- **Module IV**
  - ❖ Algorithms for SQL operators, their costs
  - ❖ Reduction Factor and its usage
  - ❖ Single and Multi-relation optimization
  - ❖ Use of indexes
- ~~You also need some module one costs for file access etc.~~

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### Test 3 information



- Will be a collection of short answer questions, working out small code examples, applying to real-world problems, intuition behind usage etc.
- ❖ True/false with justification (1 + 1 points)
- ❖ Read questions carefully; Don't write long answers; consider points
- Point distribution for each sub-topic may vary
- 80% of Questions will be on these two modules
- Module 1 is needed for query optimization
- Module 2 is not included
- Similar to previous exams

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Thank You !!!



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<http://itlab.uta.edu>



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