

Name: \_\_\_\_\_

Class Account:  
cs186-\_\_\_\_\_

## Similarity Joins

1a. Line # 7      1b. (A-D) C      1c. (A-D) C,D

2a. (A-C) A      2b. (A-C) B      2c.) i. N    ii. T    iii. N/T  
iv. C

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## Logging and Recovery

3. undoNextLSN= 40

4.

Transaction	Status	lastLSN
T2	Running	30
T3	Aborting	90

Page ID	recLSN
P1	40
P3	10
P4	100

5. LSN: 10  
100

6. LSNS: 10, 40, 60, 90,

7. LSNs: 90, 40, 30

8.

Phase	LSN	Record	prevLSN	undoNextLSN
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U	130	CLR Undo T3 LSN: 40	90	Null
U	140	T3 End	130	
U	150	CLR Undo T2 LSN: 30	30	Null
U	160	T2 End	150	

### Concurrency Control

9.  T  F      10.  T  F      11.  T  F
12.  T  F      13.  T  F
14. After step 7      15. After step 9      16.  T  F
17.  T  F      18. Lock: X

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### Query Processing and Optimization

19. 500,500 I/Os      20. 11,000 I/Os      21. 500 I/Os
- 22a. 100 tuples      22b. File Scan
- 22c. 1000 I/Os
- 23a. 5 tuples      23b. RegSC Index

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23c. \_\_\_\_ **4** \_\_\_\_ I/Os

24a. \_\_\_\_ **25** \_\_\_\_ tuples      24b. \_\_\_\_ **StudC Index** \_\_\_\_

24c. \_\_\_\_ **53** \_\_\_\_ I/Os

## Parallelism

25. \_\_\_\_ **300** \_\_\_\_ minutes    26. \_\_\_\_ **6** \_\_\_\_ days                      27. \$ \_\_\_\_ **90** \_\_\_\_

28. \_\_\_\_ **D** \_\_\_\_    29. **Jim. Ted could have skew/stragglers.**

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## SQL

30a. (A-F) \_\_\_\_ **C** \_\_\_\_  
F) \_\_\_\_ **—** \_\_\_\_

30b. (A-F) \_\_\_\_ **D** \_\_\_\_

30c. (A-

30d. (A-F) \_\_\_\_ **E** \_\_\_\_  
F) \_\_\_\_ **D** \_\_\_\_

30e. (A-F) \_\_\_\_ **A** \_\_\_\_

30f. (A-

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## Database Design

31.

**DMN<sub>1</sub>N<sub>2</sub>E**    **ER**    **N<sub>1</sub>G<sub>1</sub>C<sub>1</sub>**    **N<sub>2</sub>G<sub>2</sub>C<sub>2</sub>**

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32.

T     F

Name:

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33.

