

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

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

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.**

SQL

30a. (A-F) ____ **C** ____
F) ____ **—** ____

30b. (A-F) ____ **D** ____

30c. (A-

30d. (A-F) ____ **E** ____
F) ____ **D** ____

30e. (A-F) ____ **A** ____

30f. (A-

Database Design

31.

DMN₁N₂E **ER** **N₁G₁C₁** **N₂G₂C₂**

Name:

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32.

T F

Name:

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33.

