

New submission for: Lecture Exercise 23

Due: 12/02/2020 @ 11:59 PM EST

You are given the following statistics: TUPLES(R) = 100,000 TUPLES(S) = 500,000

Attribute	N.DISTINCT	MINVAL	MAXVAL
R.id	100,000	660120314923049	99214892348223
R.A	500	'aaa'	'zzz'
R.B	10,000	0	20,000
R.C	800	date '2018/1/1'	date '2022/12/31'
S.D	700	date '2018/8/10'	date '2022/9/30'
S.E	450	'bbb'	'zzz'
S.F	300	'Ameec'	'Zuvio'

The following queries:

- Q1: `SELECT * FROM R WHERE A = 'abc'` ;
- Q2: `SELECT * FROM R WHERE B <= 25 AND B>10` ;
- Q3: `SELECT * FROM R WHERE C = date '2021/1/1'` ;
- Q4: `SELECT * FROM S WHERE D <= date '2022/1/1' and D > date '2021/1/1'` ;
- Q5: `SELECT * FROM R WHERE A = 'abc' AND NOT(B <= 25 AND B>10)` ;
- Q6: `SELECT * FROM R WHERE A = 'abc' OR C = date '2021/1/1'` ;
- Q7: `SELECT * FROM R,S WHERE R.A=S.E` ;
- Q8: `SELECT * FROM R,S WHERE R.A=S.E AND R.C = date '2021/1/1' AND S.F <> 'Grogue'` ;

Question 1. What is the number of expected tuples in Q1? If your exact answer is not in the list below, choose the closest number.

- ☐ 75
- ☐ 5000
- ☐ 1
- ☒ 200
- ☐ 1,000,000
- ☐ 500
- ☐ 500,000
- ☐ 20,000
- ☐ 125
- ☐ 100,000
- ☐ 350
- ☐ 10,000,000

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Question 2. What is the number of expected tuples in Q2? If your exact answer is not in the list below, choose the closest number.

- ☒ 75
- ☐ 5000
- ☐ 1
- ☐ 200
- ☐ 1,000,000
- ☐ 500
- ☐ 500,000
- ☐ 20,000
- ☐ 125
- ☐ 100,000
- ☐ 350
- ☐ 10,000,000

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Question 3. What is the number of expected tuples in Q3? If your exact answer is not in the list below, choose the closest number.

- ☐ 75
- ☐ 5000
- ☐ 1
- ☐ 200
- ☐ 1,000,000
- ☐ 500
- ☐ 500,000
- ☐ 20,000
- ☒ 125
- ☐ 100,000
- ☐ 350
- ☐ 10,000,000

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Question 4. What is the number of expected tuples in Q4? If your exact answer is not in the list below, choose the closest number.

- ☐ 75
- ☐ 5000
- ☐ 1
- ☐ 200
- ☐ 1,000,000
- ☐ 500
- ☐ 500,000
- ☐ 20,000
- ☐ 125
- ☒ 100,000
- ☐ 350
- ☐ 10,000,000

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Question 5. What is the number of expected tuples in Q5? If your exact answer is not in the list below, choose the closest number.

- ☐ 75
- ☐ 5000
- ☐ 1
- ☒ 200
- ☐ 1,000,000
- ☐ 500
- ☐ 500,000
- ☐ 20,000
- ☐ 125
- ☐ 100,000
- ☐ 350
- ☐ 10,000,000

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Question 6. What is the number of expected tuples in Q6? If your exact answer is not in the list below, choose the closest number.

- ☐ 75
- ☐ 5000
- ☐ 1
- ☐ 200
- ☐ 1,000,000
- ☐ 500
- ☐ 500,000
- ☐ 20,000
- ☐ 125
- ☐ 100,000
- ☒ 350
- ☐ 10,000,000

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Question 7. What is the number of expected tuples in Q7? If your exact answer is not in the list below, choose the closest number.

- ☐ 75
- ☐ 5000
- ☐ 1
- ☐ 200
- ☐ 1,000,000
- ☐ 500
- ☐ 500,000
- ☐ 20,000
- ☐ 125
- ☐ 100,000
- ☐ 350
- ☒ 10,000,000

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Question 8. What is the number of expected tuples in Q8? If your exact answer is not in the list below, choose the closest number.

- ☐ 75
- ☐ 5000
- ☐ 1
- ☐ 200
- ☐ 1,000,000
- ☐ 500
- ☐ 500,000
- ☐ 20,000
- ☐ 125
- ☒ 100,000
- ☐ 350
- ☐ 10,000,000

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Question 9. You are given the following schedule. List all options below that are true about this schedule:

r2(y) r1(x) r3(y) w2(y) r2(z) r1(z) w2(z) w3(z) w1(x)

- ☐ r3(y) w3(z) is a conflict
- ☐ This schedule is serializable
- ☒ This schedule is not serializable
- ☒ r3(y) w2(y) is a conflict
- ☒ r2(z) w3(z) is a conflict
- ☐ r1(x) w1(x) is a conflict
- ☐ None of these options are correct
- ☐ r2(y) w3(z) is a conflict
- ☐ r1(z) w1(x) is a conlict

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