**A** Lagunita is retiring and will shut down at 12 noon Pacific Time on March 31, 2020. A few courses may be open for self-enrollment for a limited time. We will continue to offer courses on other online learning platforms; visit http://online.stanford.edu.

Course > Views and Authorization > Authorization Quiz > Authorization Quiz

## $\square$ Bookmark this page

Each multiple-choice quiz problem is based on a "root question," from which the system generates different correct and incorrect choices each time you take the quiz.

Thus, you can test yourself on the same material multiple times. We strongly urge you to continue testing on each topic until you complete the quiz with a perfect score at least once. Simply click the "Reset" button at the bottom of the page for a new variant of the quiz.

After submitting your selections, the system will score your quiz, and for incorrect answers will provide an "explanation" (sometimes for correct ones too). These explanations should help you get the right answer the next time around. To prevent rapid-fire guessing, the system enforces a minimum of 10 minutes between each submission of solutions.

## **Multiple Choice**

SELECT ON S

4/4 points (graded)

[Q1] The following SQL statement over tables R(a,b), S(b,c), and T(a,c) requires certain privileges to execute:

```
UPDATE R
SET a = 10
WHERE b IN (SELECT c FROM S)
AND NOT EXISTS (SELECT a FROM T WHERE T.a = R.a)
```

Which of the following privileges is **not** useful for execution of this SQL statement?

UPDATE ON R(a)

SELECT ON T(b) ✓

○ SELECT ON R

[Q2] Consider a set of users A, B, C, D, E. Suppose user A creates a table T and thus is the owner of T. Now suppose the following set of statements is executed in order:

User A: grant update on T to B,C with grant option
 User B: grant update on T to D with grant option
 User C: grant update on T to D with grant option
 User D: grant update on T to E
 User A: revoke update on T from C cascade

After execution of statement 5, which of the following is true?

D and E do not have privilege UPDATE ON T, but B does

A no longer has privilege UPDATE ON T

○ B no longer has privilege UPDATE ON T

B has privilege UPDATE ON T 

✓

[Q3] The following SQL statement over tables R(c,d), S(f,g), and T(a,b) requires certain privileges to execute:

```
UPDATE T

SET a=1, b=2

WHERE a <= ALL (SELECT d FROM R)

OR EXISTS (SELECT f FROM S WHERE f > T.a)
```

Which of the following privileges is **not** useful for execution of this SQL statement?

SELECT ON R(c)	
SELECT ON R(d)	
UPDATE ON T	
UPDATE ON T(a)	
] Consider a set of users	U, V, W, X, and Y. Suppose user U creates a table T and thus is the owner of T. Now suppose the following set of statements is executed in ord
1. User U: grant s	select on T to V,W with grant option
2. User V: grant s	
3. User W: grant s	
4. User U: grant s	select on T to Y select on T from V restrict
	select on T from W cascade
ich of the following state	ments is true?
X does not have SELE	CT ON T privilege after statement 5
3 X does not have privil	ege SELECT ON T after statement 6 ❤️
W does not have privi	lege SELECT ON T after statement 5
Y does not have privil	ege SELECT ON T after statement 6
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