

CS327E Lecture 6 - Wednesday 2/10/2016

Reading Quiz

Q1: Ans = C

Q2: Ans = D

Q3: Ans = C

Q4: Ans = D

Q5: Ans = D

Concept Questions

1. Recall our retail store database. It keeps product details in the SKU_Data table that is shown below. How can we find out the number of different departments that have a product in this table?
 - a. You'll be including duplicate values.
 - b. You'll be including duplicate values again.
 - c. You'll still be including duplicate values.
 - d. This is the correct answer because you are filtering out the duplicates and you're also including the nulls.**
 - e. This is not the correct answer.

2. We have the same SKU_Data table as before. Now we want to generate a more user-friendly report that shows the name of each department along with the number of products it sells.
 - a. This is the correct answer because we will be getting counts for the null departments and getting the null groups.**
 - b. We are not using a group by statement here.
 - c. We are still not using a group by statement here.
 - d. This is not the correct answer because group by includes null groups. However when we say COUNT(DEPARTMENT) it's expecting a value for the Department, then we're going to get a NULL group, but the count is going to be zero.
 - e. This is not the correct answer

The takeaway message here is that if you **want** to include **null** groups, make sure to use **COUNT(*)**

3. We want to extend the previous report to include the SKU_Description field. That is, we would like to display the SKU_Description alongside the department name while still grouping by department. Can this be done with a select-from-group-by query?
 - a. This is not the correct answer because you will get random records since you don't know what to distinguish by.
 - b. This is not the correct answer because you will get random records since you don't know what to distinguish by.
 - c. This is not the correct answer because you will get random records since you don't know what to distinguish by.
 - d. This is the correct answer.**

4. What's wrong with this query?
 - a. The max of a date is actually fine, it just means the latest date.
 - b. The USING keyword is fine, since it is called bug_id in both tables.
 - c. There is nothing wrong with the GROUP BY, since we want to group by product_id.
 - d. This is the correct answer because you will give back a random bug_id, since there is a one to many relationship.**
 - e. This is not the correct answer.

5. How can we fix this query to include the products that have no bugs?
 - a. No, because the junction table only includes pairs that have relationships.
 - b. No, because the junction table only includes pairs that have relationships.
 - c. No, because the junction table only includes pairs that have relationships.
 - d. No, because the junction table only includes pairs that have relationships.
 - e. This is the correct answer because we will be actually going to the products table and making a left outer join.**

6. We have a table of test results. Each test can have several steps and the table tracks the progress of the testing by providing a completion date for each step in the test. How can we find those tests that are **completed**?
 - a. This is the correct answer because we are filtering out nulls in the completion date field and getting the test_name.**
 - b. This is not the correct answer because we are doing the filtering out first through WHERE, thus pulling out completion_date that have nulls before we are actually doing the group by. As a result, we are including the NULL value tests.
 - c. This is incorrect because we are grouping by test_step.
 - d. This is incorrect because we are grouping by test_step.