Due May 28, 11:59 PM +07

1/1 point

Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

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returned? Check all that apply.

for which of these tasks would you need to use a WHERE clause? Check all that apply. ☐ For a table of web logs, which show the IP addresses of every visit, removing rows with duplicate IP addresses ☐ For a table that includes which of many offices each employee works, finding all the employees in the Chicago office ☐ Correct ☐ Correct Correct. A WHERE clause can look for rows that show the condition that the employee's office is Chicago. ☐ For a table of pets, including their owners and ages, finding the range of values in their ages ☐ For a table of inventory items, including quantity and price, finding all inventory items priced under \$5 ☐ Correct ☐ Correct Correct. A WHERE clause can look for rows that show the condition that the price is less than \$5. 2. The following query will fail: SELECT name, shop, aisle FROM fun.inventory WHERE price + 5; What is the issue with this query? ☐ The expression in the WHERE clause must be in the SELECT list ☐ The table reference in the FROM clause cannot have a dot (.) in the name. ☐ The table reference in the WHERE clause is not in the SELECT list ☐ Correct ☐ Correct ☐ Correct. The expression price + 5 returns a number, not a true or false value, so the engine be able to choose whether to include a row or not.		
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3. Write and run a query on wax.crayons to find colors with 205 as the red value. Which of the following colors are

	✓ Almond✓ Antique Brass	
	✓ CorrectCorrect. The red value is 205.	
	□ Atomic Tangerine□ Banana Mania☑ Mahogany	
	✓ CorrectCorrect. The red value is 205.	
	✓ Silver	
	□ Tan✓ Wisteria	
4.	Select the expressions that are equivalent to $\mathbf{x} = 2$ in SQL. Check all that apply. $\mathbf{x} < 2$	1/1 poi
	 ✓ Correct Correct. ⇒ is a valid alternative comparison operator that means "not equal to." 	
	<pre> x < 2 AND x > 2 x < 2 OR 2 > x ✓ x < 2 OR x > 2 </pre>	
	 ✓ Correct Correct. If x is not equal to 2, it must be either less than 2 or greater than 2. 	
	✓ NOT x = 2	
	Correct Correct. NOT negates the value returned by x = 2, so this expression is true when x = 2 is false and false when x = 2 is true.	
	□ x NOT = 2	

id	bool1	bool2	bool3
34	true	false	true

Which of the following would include that row in the result set? Check all that apply.

✓ SELECT * FROM table_name WHERE NOT (bool1 AND bool2)

Correct. This first evaluates the * AND in parentheses, which is **false**, and then the **NOT** negates that, giving a final evaluation of **true**. The row will be included.

- SELECT * FROM table_name WHERE bool1 AND NOT (bool2 OR bool3)
- SELECT * FROM table_name WHERE NOT bool1 OR bool2 AND bool3
- SELECT * FROM table_name WHERE NOT bool2 AND bool3

Correct. This first evaluates **NOT bool2**, which is **true**; then it compares **true AND bool3**, so the expression is **true**. The row will be included.

SELECT * FROM table_name WHERE bool1 AND bool2 OR bool3

Correct. This first evaluates **bool1 AND bool2** to be **false**, then compare **false OR bool3**. Since **bool3** is true, the expression is **true** and the row will be included.

6. Which of the following would provide results that include a row with int_x=-25? Check all that apply.

1/1 point

- SELECT * FROM table_name WHERE int_x IN (-50, 0);
- ✓ SELECT * FROM table_name WHERE int_x BETWEEN -50 AND 0;

Correct. Since $-50 \le -25 \le 0$, -25 is **BETWEEN -50 AND 0**.

SELECT * FROM table_name WHERE int_x NOT IN (-50, 0);

✓ Correct

Correct. Since -25 is neither -50 nor 0, -25 is **NOT IN (-50, 0)**.

- ☐ SELECT * FROM table_name WHERE int_x IN -50 AND 0;
- SELECT * FROM table_name WHERE int_x NOT IN -50 AND 0;
- SELECT * FROM table_name WHERE int_x BETWEEN (-50, 0);
- SELECT * FROM table_name WHERE int_x NOT BETWEEN -50 AND 0;
- SELECT * FROM table_name WHERE int_x NOT BETWEEN (-50, 0);

7. The following shows just a few rows from a table for students in a school. (GPA is grade point average, where 4.0 means the student is getting the highest scores possible. Absences is how many days the student has not attended school, and detention is a punishment for bad behavior.)

students

id	name	age	gpa	absences	detentions
930	Olufunmilayo Ayton	16	4.00	3	2
667	Vincent Michaelson	15	2.53	12	0
907	Asa Quigg	15	3.57	1	0
168	Kiran Patil	17	3.28	0	3
368	Amaal Al-Amin	16	4.00	NULL	2

368	Amaal Al-Amin	16	4.00	NULL	2				
Check all	the students whose rows woul	ld be included in the	results of						
SELECT r	name FROM students WHERE	absences < 2;							
Oluft	unmilayo Ayton								
☐ Vince	ent Michaelson								
✓ Asa (Quigg								
_	rect rrect. This student has 1 absend	ce, and 1 < 2.							
✓ Kirar	n Patil								
_	rect rrect. This student has 0 absend	ces, and 0 < 2.							
Ama:	al Al-Amin								
	es table in the default databas ving would provide that row in			NULL in state	e_province column. Which of	1			
☐ SELE	CT * from default.offices WHER	RE state_province IS	NOT NULL						
✓ SELE	SELECT * from default.offices WHERE state_province IS NULL								
$\overline{}$	rect rrect. Since state_province is	NULL , the expressio	n in the WHE	RE clause is t	rue and the row is included.				
✓ SELE	CCT * from default.offices WHER	RE state_province="S	anta Fe" OR s	tate_province	IS NULL				
_	rect rrect. Since state_province is N	IULL, the expression	in the WHER	E clause is * tr	ue and the row is included.				
☐ SELE	CT * from default.offices WHER	RE state_province="S	Santa Fe" AND	state_provinc	e IS NOT NULL				
☐ SELE	CT * from default.offices WHER	RE state_province="S	anta Fe" AND	state_provinc	e IS NULL				

means the student is getting the highest scores possible. Absences is how many days the student has not attended school, and detention is a punishment for bad behavior.)								
id	name	age	gpa	absences	detentions			
368	Amaal Al-Amin	16	4.00	NULL	2			
Which of the following WHERE clauses would include Amaal's row when used in a SELECT query?								
○ WHERE gpa > 3.50 AND absences < 3								
WHER	RE gpa > 3.50 OR absences < 3	3						
O WHER	RE absences < 3							
O WHER	RE NOT absences < 3							
O WHER	RE gpa < 3.50 AND absences •	< 3						
O WHER	RE gpa < 3.50 OR absences < 3	3						
	rect. An OR expression is tr o	ue even if only o		anda ia Amus Dasaus				
	It of absences < 3 is irreleva	-	ne or the oper	anus is true. Becaus	e gpa > 3.50 is true , the			
You have a with the v in the sco	It of absences < 3 is irrelevant	ant. ad data in the col you can do more	lumn named s	score is marked with narked -1, so you wan	NULL and some is marked nt to replace all NULL values	1/1		
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