

Week 3 Core Quiz

Question 1

For which of these tasks would you need to use a **WHERE** clause? Check all that apply.

Ans: For a table that includes which of many offices each employee works, finding all the employees in the Chicago office

For a table of inventory items, including quantity and price, finding all inventory items priced under \$5

Question 2

The following query will fail:

SELECT name, shop, aisle FROM fun.inventory WHERE price + 5;

What are the issues with this query? Check all that apply.

Ans: The expression in the **WHERE** clause must evaluate to a Boolean value

Question 3

Write and run a query on **wax.crayons** to find colors with **205** as the **red** value.

Which of the following colors are returned? Check all that apply.

Ans: Antique Brass

Mahogany

Silver

Wisteria

Question 4

Select the expressions that are equivalent to **x != 2** in SQL. Check all that apply.

Ans: NOT x = 2

x <> 2

x < 2 OR x > 2

Question 5

Which of the following would include a row with **bool1 = true**, **bool2 = false**, and **bool3 = true** in the result set? Check all that apply.

Ans: SELECT * FROM table_name WHERE bool1 AND bool2 OR bool3

SELECT * FROM table_name WHERE NOT (bool1 AND bool2)

SELECT * FROM table_name WHERE NOT bool2 AND bool3

Question 6

Which of the following would provide results that include a row with **int_x=-25**?

Check all that apply.

Ans: SELECT * FROM table_name WHERE int_x BETWEEN -50 AND 0;

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

Question 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	g pa	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

Check all the students whose rows would be included in the results of

SELECT name FROM students WHERE absences < 2;

Ans: Asa Quigg

Kiran Patil

Question 8

The **offices** table in the **default** database on the VM includes one row with **NULL** in **state_province** column. Which of the following would provide that row in the result?

Check all that apply.

Ans: SELECT * from default.offices WHERE state_province="Santa Fe" OR state_province IS NULL

SELECT * from default.offices WHERE state_province IS NULL

Question 9

The following shows Amaal Al-Amin's data 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.)

id	name	age	g pa	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? Check all that apply.

Ans: WHERE gpa > 3.50 OR absences < 3

Question 10

You have a database in which some bad data in the column named **score** is marked with **NULL** and some is marked with the value **-1**. For your purposes, you can do more with values marked **-1**, so you want to replace all **NULL** values in the **score** column with **-1** but otherwise leave the **score** values as they are. Which of the following will do this? Check all that apply.

Ans: ifnull(score, -1) Note: For some engines this is **nvl(score, -1)**

CASE WHEN score IS NULL THEN -1 ELSE score END

if(score IS NULL, -1, score)