

Introduction to SQL and Databases

SQL queries

More SQL filters

SQL joins

Review: Databases and SQL

Video: Wrap-up!

1 min

Reading: Glossary terms from week 4

10 min

Quiz: Weekly challenge 4

10 questions

Congratulations on completing Course 4!

🎉 Congratulations! You passed!

Grade received: 90%

Latest Submission

Quiz - 10 min

Go to next item

To pass 80% or higher

Review Learning Objectives

1. A security analyst queries a database related to security patches. How can SQL help this analyst with their work?

1 / 1 point

SQL will automatically update the database when the patches have been installed.

SQL will automatically update the database when the patches have been installed.

The analyst can directly install patches from SQL.

The analyst can efficiently find the data they need.

Correct To pass 80% or higher

2. Fill in the blank: A column in which every row has a unique entry and which is used to identify a table is called a \_\_\_\_.

1 / 1 point

primary key

relational key

foreign key

database key

Correct

3. Which of these SQL statements queries the log\_in\_attempts table? Select all that apply.

1 / 1 point

SELECT \*

FROM log\_in\_attempts;

Correct

SELECT event\_id, username

FROM log\_in\_attempts

WHERE event\_id < 150;

Correct

SELECT log\_in\_attempts

FROM \*;

SELECT log\_in\_attempts

FROM event\_id;

4. What does INNER JOIN do?

1 / 1 point

Combine tables and save them as a new table

Filter databases to return only columns that exist in every table

Compare tables and return only the rows that have a matching value in a specified column

Return every row in joined tables

Correct

5. A security professional uses SQL to return records from a table and applies a filter to the query. Which of the following keywords would they need to use in their query? Select all that apply.

1 / 1 point

OR

SELECT

Correct

FROM

Correct

WHERE

Correct

6. Which query returns all records that start with the character 'a' from the name column in the employees table?

0 / 1 point

SELECT name

FROM employees

WHERE name = 'a';

SELECT name

FROM employees

WHERE name LIKE 'a';

SELECT name

FROM employees

WHERE name LIKE 'a';

SELECT name

FROM employees

WHERE name LIKE 'a%';

Incorrect

Please review the video on basic filters.

7. You need to perform a SQL join. You want to return all the columns with records matching on the device\_id column between the employees and machines tables. You also want to return all records from the employees table. Which of the following queries would you use?

1 / 1 point

SELECT \*

FROM employees

FULL OUTER JOIN machines ON employees.device\_id = machines.device\_id

SELECT \*

FROM employees

INNER JOIN machines ON employees.device\_id = machines.device\_id;

SELECT \*

FROM employees

LEFT JOIN machines ON employees.device\_id = machines.device\_id;

SELECT \*

FROM employees

RIGHT JOIN machines ON employees.device\_id = machines.device\_id;

Correct

8. You are working with the Chinook database. You want to return the employee\_id and email columns from the employees table. Replace --??? with the missing information to complete the query. (If you want to undo your changes to the query, you can click the Reset button.)

1 / 1 point

1 SELECT employee\_id, email

2 FROM employees

3 WHERE email = "laura@chinookcorp.com";

Run

Reset

What is the employee ID number of the employee with an email of laura@chinookcorp.com?

4

6

2

8

Correct

9. You are working with the Chinook database and are responsible for filtering for invoices with a total that is more than 20. Replace --??? with the missing information to complete the query. (If you want to undo your changes to the query, you can click the Reset button.)

1 / 1 point

1 SELECT \*

2 FROM invoices

3 WHERE total > 20

4 --???;

Run

Reset

How many invoices have a total that is more than 20?

3

1

4

2

Correct

10. You are working with the Chinook database and are responsible for filtering for customers that live in the country of 'USA' and the state with an abbreviation of 'CA'. Replace --??? with the missing information to complete the query. (If you want to undo your changes to the query, you can click the Reset button.)

1 / 1 point

1 SELECT first\_name, last\_name, address, country, state

2 FROM customers

3 WHERE country = "USA" AND state = "CA";

Run

Reset

What are the first names of the customers that live in the USA and the state with an abbreviation of CA?

Kathy, Michelle, Frank

Frank, Tim, Dan

Frank, Tim, Dan, Heather, Kathy

John, Michelle, Julia, Patrick

Correct

1