

Introduction to SQL and Databases
SQL queries
More SQL filters
SQL joins
Review: Databases and SQL
Video: Wrap-up
Reading: Glossary terms from week 4
Quiz: Weekly challenge 4
Congratulations on completing Course 4!

# Congratulations! You passed!

Grade received: **90%**

To pass 80% or higher

Go to next item

## Weekly challenge 4

Quiz - 50 min

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

☐ The analyst can identify the patches from SQL.

☒ The analyst can identify the patches from the database.

☐ SQL will send out a spreadsheet about the patches.

☐ SQL will automatically produce a report when the patches have been installed.

☒ Receive Grade

☐ Correct To Pass: 80% or higher

Your grade: **90%**

View Feedback

We keep your highest score

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

☐ database key

☒ primary key

☐ foreign key

☐ relational key

☐ correct

3. Which of these SQL statements queries the employees table? Select all that apply.
1 / 1 point

☐ SELECT employees

FROM \*;

☒ SELECT employee\_id, device\_id

FROM employees

WHERE employee\_id > 1100;

☐ correct

☒ SELECT \*

FROM employees;

☐ correct

☐ SELECT employees

FROM employee\_id;

4. Both an employees table and a machines table contain an employee\_id column, and you want to return only the records that share a value in this column. Which keyword should be part of your query?
1 / 1 point

☒ INNER JOIN

☐ BETWEEN

☐ WHERE

☐ FULL OUTER JOIN

☐ correct

5. Which SQL keyword indicates the condition for a filter?
1 / 1 point

☐ SELECT

☐ INNER JOIN

☒ WHERE

☐ FROM

☐ correct

6. You work with a table that has one column for name. Some of these names have prefixes. You want to identify all of the doctors, which query will return every name that starts with the prefix "Dr. "?
1 / 1 point

☒ WHERE name LIKE 'Dr. %';

☐ WHERE name = "Dr. %";

☐ WHERE name = "Dr. \_";

☐ WHERE name LIKE 'Dr. \_';

☐ correct

7. You need to perform a SQL join. You want to return all the columns with records matching on the employee\_id column between the employees and machines tables. You also want to return all records from the machines table. Which of the following queries would you use?
0 / 1 point

☒ SELECT \*

FROM employees

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

☐ SELECT \*

FROM employees

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

☐ SELECT \*

FROM employees

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

☐ SELECT \*

FROM employees

FULL OUTER JOIN machines ON employees.employee\_id = machines.employee\_id;

☒ Incorrect

Please review the video on types of joins: 1'.

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?

☒ 8

☐ 2

☐ 4

☐ 6

☐ correct

9. You are working with the Chinook database and are responsible for filtering for invoices with a total that is more than 50. 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 > 50
4 --???

```

Run

Reset

InvoiceId	CustomerId	InvoiceDate	BillingAddress	BillingCity	BillingState	BillingCountry	BillingPostalCode
96	45	2010-01-28 00:00:00	Frankfurt, DE	Frankfurt	None	Germany	60508
194	46	2011-04-28 00:00:00	3 Chatham Street	Dublin	Dublin	Ireland	None
299	26	2012-08-05 00:00:00	2224 N. Berry Street	Fort Worth	Tx	USA	76124
404	6	2013-11-13 00:00:00	Rizkova 3176/6	Prague	None	Czech Republic	14300

How many invoices have a total that is more than 50?

☐ 2

☐ 1

☒ 4

☐ 3

☐ correct

10. You are working with the Chinook database and are responsible for filtering for the customers that live in the city of "Mountain View" and work for the company of "Google Inc. ". 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, city, company
2 FROM customers
3 where city = "Mountain View" AND company = "Google Inc."
4 --???

```

Run

Reset

FirstName	LastName	City	Company
Frank	Harris	Mountain View	Google Inc.

How many customers live in Mountain View and work for Google Inc.?

☐ 4

☒ 1

☐ 2

☐ correct