

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

Latest Submission

Quiz • 10 min

Weekly challenge 4

To pass 80% or higher

Retake the assignment in 23h 55m

Go to next item

Review Learning Objectives

1. A security analyst queries a table related to login attempts. How can SQL help this analyst with their work?

1 / 1 point

🔄 Try again

Retake the quiz in 23h 55m

📊 Your grade

100%

📝 View Feedback

We keep your highest score

1. A security analyst queries a table related to login attempts. How can SQL help this analyst with their work?

1 / 1 point

☐ SQL will automatically distribute reports to prevent unauthorized logins.

☒ The analyst will get a live update on new login attempts.

☐ SQL will automatically distribute a report on suspicious login attempts.

☐ The analyst will get a live update on new login attempts.

👍 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 _____.

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☐ database key

☒ primary key

☐ foreign key

☐ relational key

👍 Correct

3. Which of these SQL statements queries the `machines` table? Select all that apply.

1 / 1 point

☒ `SELECT *`
`FROM machines;`

👍 Correct

☒ `SELECT device_id, operating_system`
`FROM machines`
`WHERE operating_system = 'OS 2';`

👍 Correct

☐ `SELECT machines`
`FROM *;`

☐ `SELECT machines`
`FROM operating_system;`

4. Both an `employees` table and `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

☐ `FULL OUTER JOIN`

☐ `WHERE`

☐ `BETWEEN`

☒ `INNER JOIN`

👍 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

☒ `WHERE`

👍 Correct

☒ `FROM`

👍 Correct

☒ `SELECT`

👍 Correct

☐ `ON`

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. "?

👍 Like 👎 Dislike 🚩 Report an issue

☒ `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 `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`
`LEFT JOIN machines ON employees.device_id = machines.device_id;`

☐ `SELECT *`
`FROM employees`
`RIGHT JOIN machines ON employees.device_id = machines.device_id;`

☐ `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;`

👍 Correct

8. You are working with the `Chinook` database. You want to return the `lastname` and `title` 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 --???
```

```
2 SELECT *
```

```
3 FROM employees
```

```
4 WHERE lastname="Callahan";
```

Run

Reset

EmployeeId	LastName	FirstName	Title	ReportTo	BirthDate	HireDate	Address	City	State	Country	PostalCode	Phone	Fax	Email
8	Callahan	Laura	IT Staff	6	1968-01-09 00:00:00	2004-03-04 00:00:00	923 7 57 NW	Letteridge	AB	Canada	T1N 3Y6	+1 (403) 467-3353	+1 (403) 467-8772	laura@chinookcorp.com

What is the title of the employee with the last name of Callahan?

☐ IT Manager

☐ Sales Manager

☐ General Manager

☒ IT Staff

👍 Correct

9. You are working with the `Chinook` database and are responsible for filtering for the employees with a `birthdate` that is on or after '1973-01-01' (January 1, 1973). 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 firstName, lastname, birthdate
```

```
2 FROM employees
```

```
3 ORDER BY birthdate;
```

```
4 --???
```

Run

Reset

FirstName	LastName	BirthDate
Margaret	Park	1947-09-19 00:00:00
Nancy	Edwards	1958-12-08 00:00:00
Andrew	Adams	1962-02-18 00:00:00
Steve	Johnson	1952-03-03 00:00:00
Laura	Callahan	1968-01-09 00:00:00
Robert	King	1970-05-19 00:00:00
Michael	Mitchell	1971-07-01 00:00:00
Jane	Pearson	1973-08-29 00:00:00

How many employees were born on or after January 1, 1973?

☒ 2

☐ 3

☐ 1

☐ 4

👍 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 firstName, lastname, 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.?

☒ 1

☐ 4

☐ 2

☐ 3

👍 Correct

10