

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

10 questions

Congratulations on completing Course 4!

🎉 Congratulations! You passed!

Latest Submission

Grade received

Weekly challenge 4

Quiz • 10 min

To pass 80% or higher

Retake the assignment in 23h 54m

Go to next item

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 find the patches from SQL.

☐

SQL will automatically update the patches if they have been installed.

☒

The analyst can efficiently find the data they need.

☐

SQL will send out a spreadsheet about the patches.

👍 Receive grade

To Pass 80% or higher

Your grade 90%

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We keep your highest score

Try again

Retake the quiz in 23h 54m

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

☐

relational key

☒

primary key

☐

database key

☐

foreign key

👍 Correct

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

1 / 1 point

☐

`SELECT employees`

☐

`FROM employees_id;`

☒

`SELECT employees_id, device_id`

☐

`FROM employees`

☐

`WHERE employees_id > 1100;`

👍 Correct

☒

`SELECT *`

☐

`FROM employees;`

👍 Correct

☐

`SELECT employees`

☐

`FROM *;`

4. What does `INNER JOIN` do?

1 / 1 point

☐

Combine tables and save them as a new table

☒

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

☐

Filter databases to return only columns that exist in every table

☐

Return every row in joined tables

👍 Correct

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

1 / 1 point

☒

`WHERE`

☐

`FROM`

☐

`SELECT`

☐

`INNER JOIN`

👍 Correct

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

0 / 1 point

☒

`SELECT name`

☐

`FROM employees`

☐

`WHERE name LIKE 'a%';`

☐

`SELECT name`

☐

`FROM employees`

☐

`WHERE name LIKE 'a%';`

☐

`SELECT name`

☐

`FROM employees`

☐

`WHERE name = 'a%';`

☐

`SELECT name`

☐

`FROM employees`

☐

`WHERE name = '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`

☐

`RIGHT 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;`

👍 Correct

8. You are working with the `Chinook` database. You want to return the `company` and `country` columns from the `customers` 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 company, country

2 FROM customers

3 WHERE company = "--???"

Run

Reset

Company	Country
JetBrains s.r.o.	Czech Republic

In what country is JetBrains s.r.o. located?

☐

Brazil

☐

Germany

☒

Czech Republic

☐

United States

👍 Correct

9. You are working with the `Chinook` database and want to filter on the `hiredate` column to find all employees hired on or after '2003-10-17' (October 17, 2003). 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.)

0 / 1 point

1 SELECT *

2 FROM employees

3 WHERE hiredate > 2003-10-17

4 --???

Run

Reset

EmployeeId	LastName	FirstName	Title	ReportsTo	BirthDate	HireDate	Address	City	State	Country	PostalCode	Phone	Fax	Email
1	Adams	Andrew	General Manager	None	1962-02-18 00:00:00	2003-08-14 00:00:00	11120 Jasper Ave NW	Edmonton	AB	Canada	T5K 0A1	+1 (780) 438-0462	+1 (780) 438-3457	andrew@chinookcorp.com
2	Edwards	Nancy	Sales Manager	1	1958-12-08 00:00:00	2002-05-01 00:00:00	825 8 Ave SW	Calgary	AB	Canada	T2P 2T3	+1 (403) 262-3443	+1 (403) 262-3122	nancy@chinookcorp.com
3	Phoebe	Jane	Sales Support Agent	2	1973-08-29 00:00:00	2002-04-01 00:00:00	1115 6 Ave SW	Calgary	AB	Canada	T2P 5K5	+1 (403) 262-3443	+1 (403) 262-3712	jane@chinookcorp.com
4	Park	Margaret	Sales Support Agent	2	1947-05-20 00:00:00	2003-05-03 00:00:00	683 28 Street SW	Calgary	AB	Canada	T2P 5G3	+1 (403) 263-4423	+1 (403) 263-4289	margaret@chinookcorp.com
5	Johnson	Steve	Sales Support Agent	2	1963-03-20 00:00:00	2003-10-17 00:00:00	77279 43 Ave	Calgary	AB	Canada	T2B 3Y7	+1 (780) 436-1087	+1 (780) 436-9543	steve@chinookcorp.com
6	Pitcheill	Michael	IT Manager	1	1973-07-01 00:00:00	2003-10-17 00:00:00	1827 Bowness Road NW	Calgary	AB	Canada	T3B 0C5	+1 (403) 246-9887	+1 (403) 246-9899	michael@chinookcorp.com
7	King	Robert	IT Staff	6	1978-05-20 00:00:00	2004-01-02 00:00:00	108 Columbia Boulevard West	Calgary	AB	Canada	T3B 3M8	+1 (403) 456-9986	+1 (403) 456-8885	robert@chinookcorp.com
8	Callahan	Laura	IT Staff	6	1968-01-09 00:00:00	2004-03-04 00:00:00	923 7 ST NW	Lettingridge	AB	Canada	T3B 3Y8	+1 (403) 467-3351	+1 (403) 467-8772	laura@chinookcorp.com

How many employees were hired on or after October 17, 2003?

☒

2

☐

1

☐

3

☐

4

👎 Incorrect

Please review [the video on filtering dates and numbers](#) !.

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 FirstName, LastName, address, country, state

2 FROM customers

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

Run

Reset

FirstName	LastName	Address	Country	State
Frank	Myers	1880 Appleton Highway	USA	CA
Tim	Geyer	1 Infinite Loop	USA	CA
Ben	Miller	542 Mt. Meilo Avenue	USA	CA

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

☒

Frank, Tim, Dan

☐

Kathy, Michelle, Frank

☐

John, Michelle, Julia, Patrick

☐

Frank, Tim, Dan, Heather, Kathy

👍 Correct

🔍