**Exemplar: Filter a SQL query**

experimentLabschedule1 houruniversal\_currency\_altNo costshow\_chartIntroductory

**Activity overview**

As a security analyst, knowing how to make better queries to retrieve specific pieces of data can help you find the security-related information you need more efficiently.

In this lab activity, you’ll apply basic filters to SQL queries to retrieve information from a MariaDB database.

MariaDB is a popular open source relational database that is compatible with MySQL.

This activity provides you with a great opportunity to apply what you’ve learned and add filters to SQL queries.

***Note:****The terms****row****and****record****are used interchangeably in this lab activity.*

**Scenario**

In this scenario, you need to get specific information about employees, their machines, and the departments they’re in. Your team needs this data to perform various tasks, such as running updates, posting a privacy notice in certain departments, and sending an alert to an employee with an issue on a machine.

You are responsible for finding the required information by querying a database. You’ll add filters to your queries to locate the information more quickly.

Here’s how you’ll do this task: **First**, you’ll list all organization machines and their operating systems. **Second**, you’ll list all machines with the operating system OS 2. **Third**, you’ll list all the employees in the Finance and Sales departments. **Fourth**, you’ll obtain information about machines.

You’re ready to add filters to SQL queries.

***Note:****In this lab you’ll be working with the organization database and the tables it contains.*

*The lab starts with the organization database in the MariaDB shell that is already open. This means you can start with the tasks as soon as you click the****Start Lab****button.*

*If you unintentionally exit the organization database in the MariaDB shell, you can reconnect by running the sudo mysql organization command.*

**Disclaimer:** For optimal performance and compatibility, it is recommended to use either **Google Chrome** or **Mozilla Firefox** browsers while accessing the labs.

**Start your lab**

Before you begin, you can review the instructions for using the Qwiklabs platform under the **Resources** tab in Coursera.

If you haven't already done so, click **Start Lab**. This brings up the terminal so that you can begin completing the tasks!

When you have completed all the tasks, refer to the **End your Lab** section that follows the tasks for information on how to end your lab.

**Task 1. List all organization machines**

In this task, you need to get a list of all organization machines and their operating systems. The data is contained in the machines table. You’ll need to use the SELECTkeyword to return specific columns.

* Run a SQL query to retrieve only the device\_id and operating\_system columns from the machines table.

The command to complete this step:

SELECT device\_id, operating\_system

FROM machines;

Copied!

The output lists only the selected columns from all the rows in the machines table:

+--------------+------------------+

| device\_id | operating\_system |

+--------------+------------------+

| a184b775c707 | OS 1 |

| a192b174c940 | OS 2 |

| a305b818c708 | OS 3 |

| a317b635c465 | OS 1 |

| a320b137c219 | OS 2 |

| a398b471c573 | OS 3 |

|... |

+--------------+------------------+

200 rows in set (0.028 sec)

How many rows were returned from the machines table? (You can view the number of rows at the bottom of the output.)

250

100

check200

300

**Answer**: The machines table returned 200 rows.

Click **Check my progress** to verify that you have completed this task correctly.

You have completed this task and retrieved the information from the machines table.

List all organization machines

*You have completed this task and retrieved the information from the machines table.*

MariaDB [organization]> clear

MariaDB [organization]> select device\_id, operating\_system

-> from machines;

+--------------+------------------+

| device\_id | operating\_system |

+--------------+------------------+

| a184b775c707 | OS 1 |

| a192b174c940 | OS 2 |

| a305b818c708 | OS 3 |

| a317b635c465 | OS 1 |

| a320b137c219 | OS 2 |

| a398b471c573 | OS 3 |

| a667b270c984 | OS 1 |

| a821b452c176 | OS 2 |

| a998b568c863 | OS 3 |

| b157c491d493 | OS 2 |

| b239c825d303 | OS 1 |

| b264c773d977 | OS 2 |

| b265c937d713 | OS 2 |

| b433c245d868 | OS 1 |

| b551c837d758 | OS 3 |

| b566c710d544 | OS 1 |

| b806c503d354 | OS 2 |

| b979c871d361 | OS 2 |

| c116d593e558 | OS 3 |

| c150d982e144 | OS 2 |

| c185d679e493 | OS 1 |

| c406d877e950 | OS 2 |

| c547d140e477 | OS 2 |

| c568d742e974 | OS 2 |

| c597d792e215 | OS 2 |

| c603d749e374 | OS 1 |

| c986d200e170 | OS 2 |

| d168e758f876 | OS 2 |

| d280e557f635 | OS 3 |

| d336e475f676 | OS 2 |

| d394e816f943 | OS 3 |

| d647e310f618 | OS 2 |

| d693e351f221 | OS 2 |

| d790e839f461 | OS 1 |

| d831e972f553 | OS 1 |

| d881e710f732 | OS 3 |

| e113f288g203 | OS 2 |

| e121f951g937 | OS 3 |

| e127f591g924 | OS 3 |

| e218f877g788 | OS 2 |

| e281f433g404 | OS 1 |

| e301f659g551 | OS 3 |

| e391f189g913 | OS 3 |

| e395f616g566 | OS 2 |

| e782f537g683 | OS 1 |

| f117g394h201 | OS 1 |

| f229g533h679 | OS 2 |

| f370g535h632 | OS 2 |

| f419g188h578 | OS 1 |

| f551g340h864 | OS 3 |

| f840g812h544 | OS 1 |

| f934g229h883 | OS 2 |

| f951g408h866 | OS 1 |

| f963g637h851 | OS 1 |

| g164h566i795 | OS 1 |

| g264h852i697 | OS 3 |

| g299h520i457 | OS 2 |

| g329h357i597 | OS 1 |

| g567h376i314 | OS 3 |

| g770h829i938 | OS 2 |

| g773h303i639 | OS 2 |

| g950h972i991 | OS 2 |

| g953h643i618 | OS 2 |

| h165i539j638 | OS 3 |

| h174i497j413 | OS 2 |

| h339i498j269 | OS 1 |

| h679i515j339 | OS 3 |

| h784i120j837 | OS 3 |

| h832i322j795 | OS 1 |

| h835i179j862 | OS 2 |

| i281j129k749 | OS 3 |

| i446j874k974 | OS 3 |

| i671j355k725 | OS 2 |

| i679j565k940 | OS 1 |

| i682j513k442 | OS 3 |

| i772j807k175 | OS 2 |

| i858j583k571 | OS 2 |

| j236k303l245 | OS 1 |

| j255k281l925 | OS 3 |

| j637k986l199 | OS 2 |

| j713k893l832 | OS 2 |

| j781k420l510 | OS 1 |

| j803k645l251 | OS 2 |

| k242l212m542 | OS 1 |

| k367l639m697 | OS 1 |

| k495l234m708 | OS 1 |

| k550l533m205 | OS 3 |

| k570l183m949 | OS 3 |

| k865l965m233 | OS 3 |

| k982l199m839 | OS 2 |

| l186m618n319 | OS 1 |

| l282m821n717 | OS 1 |

| l358m929n154 | OS 3 |

| l552m734n118 | OS 2 |

| l686m140n569 | OS 3 |

| l693m585n528 | OS 3 |

| l738m922n515 | OS 1 |

| l748m120n401 | OS 3 |

| m272n572o874 | OS 3 |

| m340n287o441 | OS 2 |

| m674n127o823 | OS 3 |

| m756n668o146 | OS 1 |

| m778n920o426 | OS 2 |

| m873n636o225 | OS 1 |

| m891n748o375 | OS 2 |

| n205o559p243 | OS 1 |

| n253o917p623 | OS 1 |

| n378o313p469 | OS 3 |

| n428o322p522 | OS 1 |

| n516o853p957 | OS 1 |

| n683o758p820 | OS 2 |

| n704o364p471 | OS 2 |

| o156p302q359 | OS 2 |

| o225p357q829 | OS 3 |

| o305p208q337 | OS 3 |

| o391p779q935 | OS 1 |

| o678p794q957 | OS 1 |

| o783p832q294 | OS 2 |

| p164q780r999 | OS 3 |

| p288q432r721 | OS 3 |

| p611q262r945 | OS 1 |

| p752q137r169 | OS 3 |

| p765q957r699 | OS 2 |

| p791q114r509 | OS 2 |

| p834q238r776 | OS 3 |

| p929q222r778 | OS 3 |

| q175r338s833 | OS 3 |

| q228r135s755 | OS 1 |

| q308r573s459 | OS 3 |

| q372r826s628 | OS 2 |

| q689r187s648 | OS 2 |

| q793r736s288 | OS 2 |

| q912r119s313 | OS 2 |

| r194s893t593 | OS 1 |

| r454s225t299 | OS 2 |

| r520s571t459 | OS 2 |

| r537s849t690 | OS 1 |

| r550s824t230 | OS 2 |

| r628s557t397 | OS 1 |

| s103t952u851 | OS 2 |

| s310t540u653 | OS 1 |

| s328t505u907 | OS 3 |

| s371t911u987 | OS 1 |

| s375t538u194 | OS 2 |

| s429t157u159 | OS 1 |

| s772t175u409 | OS 1 |

| s918t412u294 | OS 3 |

| t244u829v723 | OS 1 |

| t363u179v368 | OS 3 |

| t479u468v151 | OS 1 |

| t567u844v434 | OS 3 |

| t709u492v884 | OS 1 |

| t801u630v138 | OS 2 |

| t815u205v470 | OS 3 |

| t959u687v394 | OS 2 |

| u113v483w811 | OS 3 |

| u340v931w764 | OS 2 |

| u429v921w138 | OS 2 |

| u554v512w139 | OS 1 |

| u671v146w618 | OS 1 |

| u849v569w521 | OS 2 |

| u899v381w363 | OS 3 |

| u905v920w694 | OS 1 |

| v109w587x644 | OS 2 |

| v135w241x773 | OS 2 |

| v200w121x977 | OS 2 |

| v283w690x104 | OS 1 |

| v491w553x421 | OS 2 |

| v691w183x928 | OS 1 |

| v846w200x439 | OS 1 |

| v852w513x954 | OS 2 |

| w167x592y375 | OS 3 |

| w190x708y760 | OS 3 |

| w237x430y567 | OS 2 |

| w326x611y598 | OS 1 |

| w622x645y348 | OS 3 |

| w981x771y326 | OS 2 |

| w986x187y885 | OS 3 |

| x127y181z890 | OS 2 |

| x174y934z376 | OS 1 |

| x253y759z103 | OS 1 |

| x561y839z458 | OS 2 |

| x573y883z772 | OS 1 |

| x677y330z296 | OS 1 |

| x701y250z303 | OS 3 |

| y103z561a649 | OS 2 |

| y131z211a578 | OS 2 |

| y132z930a114 | OS 2 |

| y246z508a775 | OS 2 |

| y347z204a710 | OS 2 |

| y765z123a548 | OS 2 |

| y943z930a241 | OS 1 |

| y976z753a267 | OS 2 |

| z381a365b233 | OS 3 |

| z451a308b518 | OS 2 |

| z566a147b347 | OS 1 |

| z654a154b259 | OS 2 |

| z803a233b718 | OS 1 |

| z821a946b264 | OS 3 |

| z942a966b589 | OS 3 |

+--------------+------------------+

200 rows in set (0.021 sec)

MariaDB [organization]>

## Task 2. Retrieve a list of the machines with OS 2

In this task, you need to obtain a list of all machines with the 'OS 2' operating system because these machines need an update. To get this information, you’ll run your first SQL query with a filter.

* Select all the records from the machines table with a value of 'OS 2' in the operating\_system column. Replace the value X with the correct string:

SELECT device\_id, operating\_system

FROM machines

WHERE operating\_system = 'X';

The command to complete this step:

SELECT device\_id, operating\_system

FROM machines

WHERE operating\_system = 'OS 2';

Copied!

***Note:****The WHERE clause allows you to filter the results returned by a query by returning only the records that satisfy the condition.*

The output displays the selected columns of the machines table, filtered by the operating system:

+--------------+------------------+

| device\_id | operating\_system |

+--------------+------------------+

| a192b174c940 | OS 2 |

| a320b137c219 | OS 2 |

| a821b452c176 | OS 2 |

| b157c491d493 | OS 2 |

| b264c773d977 | OS 2 |

|... |

+--------------+------------------+

80 rows in set (0.264 sec)

How many machines in the database use the OS 2 operating system?

check80

88

200

44

**Answer**: There are 80 machines in the database that use the OS 2 operating system.

Click **Check my progress** to verify that you have completed this task correctly.

You have completed this task and retrieved all the records from the machines table with an operating\_system of OS 2.

Retrieve a list of the machines with OS 2

*You have completed this task and retrieved all the records from the machines table with an operating\_system of OS 2.*

MariaDB [organization]> SELECT device\_id, operating\_system

-> FROM machines

-> WHERE operating\_system = 'OS 2';

+--------------+------------------+

| device\_id | operating\_system |

+--------------+------------------+

| a192b174c940 | OS 2 |

| a320b137c219 | OS 2 |

| a821b452c176 | OS 2 |

| b157c491d493 | OS 2 |

| b264c773d977 | OS 2 |

| b265c937d713 | OS 2 |

| b806c503d354 | OS 2 |

| b979c871d361 | OS 2 |

| c150d982e144 | OS 2 |

| c406d877e950 | OS 2 |

| c547d140e477 | OS 2 |

| c568d742e974 | OS 2 |

| c597d792e215 | OS 2 |

| c986d200e170 | OS 2 |

| d168e758f876 | OS 2 |

| d336e475f676 | OS 2 |

| d647e310f618 | OS 2 |

| d693e351f221 | OS 2 |

| e113f288g203 | OS 2 |

| e218f877g788 | OS 2 |

| e395f616g566 | OS 2 |

| f229g533h679 | OS 2 |

| f370g535h632 | OS 2 |

| f934g229h883 | OS 2 |

| g299h520i457 | OS 2 |

| g770h829i938 | OS 2 |

| g773h303i639 | OS 2 |

| g950h972i991 | OS 2 |

| g953h643i618 | OS 2 |

| h174i497j413 | OS 2 |

| h835i179j862 | OS 2 |

| i671j355k725 | OS 2 |

| i772j807k175 | OS 2 |

| i858j583k571 | OS 2 |

| j637k986l199 | OS 2 |

| j713k893l832 | OS 2 |

| j803k645l251 | OS 2 |

| k982l199m839 | OS 2 |

| l552m734n118 | OS 2 |

| m340n287o441 | OS 2 |

| m778n920o426 | OS 2 |

| m891n748o375 | OS 2 |

| n683o758p820 | OS 2 |

| n704o364p471 | OS 2 |

| o156p302q359 | OS 2 |

| o783p832q294 | OS 2 |

| p765q957r699 | OS 2 |

| p791q114r509 | OS 2 |

| q372r826s628 | OS 2 |

| q689r187s648 | OS 2 |

| q793r736s288 | OS 2 |

| q912r119s313 | OS 2 |

| r454s225t299 | OS 2 |

| r520s571t459 | OS 2 |

| r550s824t230 | OS 2 |

| s103t952u851 | OS 2 |

| s375t538u194 | OS 2 |

| t801u630v138 | OS 2 |

| t959u687v394 | OS 2 |

| u340v931w764 | OS 2 |

| u429v921w138 | OS 2 |

| u849v569w521 | OS 2 |

| v109w587x644 | OS 2 |

| v135w241x773 | OS 2 |

| v200w121x977 | OS 2 |

| v491w553x421 | OS 2 |

| v852w513x954 | OS 2 |

| w237x430y567 | OS 2 |

| w981x771y326 | OS 2 |

| x127y181z890 | OS 2 |

| x561y839z458 | OS 2 |

| y103z561a649 | OS 2 |

| y131z211a578 | OS 2 |

| y132z930a114 | OS 2 |

| y246z508a775 | OS 2 |

| y347z204a710 | OS 2 |

| y765z123a548 | OS 2 |

| y976z753a267 | OS 2 |

| z451a308b518 | OS 2 |

| z654a154b259 | OS 2 |

+--------------+------------------+

80 rows in set (0.002 sec)

MariaDB [organization]>

## Task 3. List employees in specific departments

In this task, you need to retrieve a list of all the employees in the Finance and Sales departments to obtain their office numbers. A notice about handling confidential financial information will be posted to these offices.

1. Filter the rows returned from department column in the employees table to include only employees from the 'Finance' department. Replace X with the appropriate column name and Y with the appropriate value to complete the filter:

SELECT \*

FROM employees

WHERE X = 'Y';

The correct query to solve this step:

SELECT \*

FROM employees

WHERE department = 'Finance';

Copied!

The output displays the contents of the employees table, including only employees in the Finance department.

What is the employee\_id of the first row returned?

1049

1001

check1003

1119

**Answer**: The employee\_id of the first row returned is 1003.

1. Modify the previous query so that it returns employees who are in the 'Sales'department.

The correct query to solve this step:

SELECT \*

FROM employees

WHERE department = 'Sales';

Copied!

The output will display the contents of the employees table, including only employees in the Sales department.

How many employees work in the Sales department?

42

check33

17

10

**Answer**: There are 33 employees who work in the Sales department.

Click **Check my progress** to verify that you have completed this task correctly.

You have completed this task and retrieved the information about employees in the Finance and Sales departments from the employees table.

List employees in specific departments

*You have completed this task and retrieved the information about employees in the Finance and Sales departments from the employees table.*

ariaDB [organization]>

MariaDB [organization]> SELECT \*

-> FROM employees

-> WHERE department = 'Finance';

+-------------+--------------+----------+------------+-------------+

| employee\_id | device\_id | username | department | office |

+-------------+--------------+----------+------------+-------------+

| 1003 | d394e816f943 | sgilmore | Finance | South-153 |

| 1007 | h174i497j413 | wjaffrey | Finance | North-406 |

| 1008 | i858j583k571 | abernard | Finance | South-170 |

| 1010 | k242l212m542 | jlansky | Finance | South-109 |

| 1015 | p611q262r945 | jsoto | Finance | North-271 |

| 1017 | r550s824t230 | jclark | Finance | North-188 |

| 1018 | s310t540u653 | abellmas | Finance | North-403 |

| 1022 | w237x430y567 | arusso | Finance | West-465 |

| 1029 | d336e475f676 | ivelasco | Finance | East-156 |

| 1044 | s429t157u159 | tbarnes | Finance | West-415 |

| 1045 | t567u844v434 | pwashing | Finance | East-115 |

| 1046 | u429v921w138 | daquino | Finance | West-280 |

| 1047 | v109w587x644 | cward | Finance | West-373 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 |

| 1049 | NULL | jreckley | Finance | Central-295 |

| 1050 | y132z930a114 | csimmons | Finance | North-468 |

| 1062 | k367l639m697 | redwards | Finance | North-180 |

| 1069 | NULL | jpark | Finance | East-110 |

| 1076 | y347z204a710 | fgarcia | Finance | Central-270 |

| 1081 | d647e310f618 | qcorbit | Finance | South-290 |

| 1083 | f840g812h544 | gkoshi | Finance | West-165 |

| 1099 | v283w690x104 | anaser | Finance | West-357 |

| 1105 | b551c837d758 | kmei | Finance | Central-232 |

| 1122 | s103t952u851 | btorres | Finance | West-319 |

| 1136 | g299h520i457 | jhawes | Finance | West-416 |

| 1138 | i671j355k725 | sromero | Finance | South-329 |

| 1142 | m674n127o823 | lsilva | Finance | East-440 |

| 1144 | NULL | erobinso | Finance | Central-266 |

| 1147 | r454s225t299 | tvega | Finance | West-177 |

| 1148 | s328t505u907 | dharvey | Finance | South-181 |

| 1159 | d881e710f732 | jshen | Finance | East-193 |

| 1164 | i682j513k442 | fsmeltz | Finance | North-163 |

| 1174 | s371t911u987 | eortiz | Finance | North-428 |

| 1175 | t959u687v394 | jclark2 | Finance | North-194 |

| 1181 | z803a233b718 | sessa | Finance | South-207 |

| 1187 | f963g637h851 | bbode | Finance | East-351 |

| 1188 | g164h566i795 | noshiro | Finance | West-252 |

| 1195 | n516o853p957 | orainier | Finance | East-346 |

+-------------+--------------+----------+------------+-------------+

38 rows in set (0.001 sec)

MariaDB [organization]> SELECT \*

-> FROM employees

-> WHERE department = 'Sales';

+-------------+--------------+----------+------------+-------------+

| employee\_id | device\_id | username | department | office |

+-------------+--------------+----------+------------+-------------+

| 1009 | NULL | lrodriqu | Sales | South-134 |

| 1011 | l748m120n401 | drosas | Sales | South-292 |

| 1024 | y976z753a267 | iuduike | Sales | South-215 |

| 1025 | z381a365b233 | jhill | Sales | North-115 |

| 1035 | j236k303l245 | bisles | Sales | South-171 |

| 1039 | n253o917p623 | cjackson | Sales | East-378 |

| 1041 | p929q222r778 | cgriffin | Sales | North-208 |

| 1057 | f370g535h632 | mscott | Sales | South-270 |

| 1063 | l686m140n569 | lpope | Sales | East-226 |

| 1066 | o678p794q957 | ttyrell | Sales | Central-444 |

| 1071 | t244u829v723 | zdutchma | Sales | West-348 |

| 1072 | u905v920w694 | esmith | Sales | East-421 |

| 1078 | a667b270c984 | sharley | Sales | North-418 |

| 1085 | h339i498j269 | cperez | Sales | East-325 |

| 1086 | i281j129k749 | lmajumda | Sales | West-499 |

| 1089 | l358m929n154 | jpark2 | Sales | West-251 |

| 1091 | n378o313p469 | rtran | Sales | Central-230 |

| 1092 | o391p779q935 | lpark | Sales | West-227 |

| 1098 | u671v146w618 | tarchamb | Sales | North-423 |

| 1107 | d168e758f876 | akajwara | Sales | North-471 |

| 1109 | f229g533h679 | nlocklea | Sales | East-196 |

| 1110 | g567h376i314 | pchaudhu | Sales | Central-428 |

| 1111 | h835i179j862 | jlee | Sales | West-309 |

| 1116 | m272n572o874 | nzhao | Sales | South-100 |

| 1117 | n683o758p820 | dahmad | Sales | West-405 |

| 1118 | o305p208q337 | jpark3 | Sales | South-329 |

| 1119 | p164q780r999 | omubarak | Sales | West-409 |

| 1121 | r628s557t397 | mrojas | Sales | East-288 |

| 1130 | a317b635c465 | tsnow | Sales | Central-451 |

| 1169 | NULL | mmitchel | Sales | Central-250 |

| 1176 | u849v569w521 | nliu | Sales | West-220 |

| 1185 | d790e839f461 | revens | Sales | North-330 |

| 1186 | e281f433g404 | sacosta | Sales | North-460 |

+-------------+--------------+----------+------------+-------------+

33 rows in set (0.001 sec)

MariaDB [organization]>

## Task 4. Identify employee machines

Your team recently discovered that there are issues with machines in the South building. In this task, you need to obtain certain employee and computer information.

A machine in 'South-109' has an issue. You need to determine which employee uses that computer so you can send them an alert.

1. Write a query to identify which employee uses the office in 'South-109'. (The data must be returned from the office column in the employees table.)

The correct query to solve this step:

SELECT \*

FROM employees

WHERE office = 'South-109';

Copied!

Which of the following employees uses the computer with the issue?

jhill

checkjlansky

tsnow

nmitchell

**Answer**: The user ID of the employee with the computer issue is jlansky.

Next, your team has determined that there is an issue with all the machines in the South building. Offices in the organization are named with the building name, a hyphen, and the office number in that building (for example, 'South-109').

1. Modify the query you used in the previous step so that it returns information on all the employees in the 'South' building. Use the LIKE operator with % in this query.

The correct query to solve this step:

SELECT \*

FROM employees

WHERE office LIKE 'South%';

Copied!

***Note:****The LIKE keyword in SQL performs simple string matches. The matching pattern may include the wildcard % to represent a string of any length. This wildcard may be placed both before and after the targeted substring.*

Which department does the first employee listed in the South building belong to?

Sales

checkFinance

Marketing

Information Technology

**Answer**: The first employee on the list returned works in the Finance department.

Click **Check my progress** to verify that you have completed this task correctly.

You have completed this task and identified the employee who uses the office in South-109. You have also retrieved the information about all the machines in the South building.

Identify employee machines

*You have completed this task and identified the employee who uses the office in South-109. You have also retrieved the information about all the machines in the South building.*

MariaDB [organization]> SELECT \*

-> FROM employees

-> WHERE office = 'South-109';

+-------------+--------------+----------+------------+-----------+

| employee\_id | device\_id | username | department | office |

+-------------+--------------+----------+------------+-----------+

| 1010 | k242l212m542 | jlansky | Finance | South-109 |

+-------------+--------------+----------+------------+-----------+

1 row in set (0.001 sec)

MariaDB [organization]> SELECT \*

-> FROM employees

-> WHERE office LIKE 'South%';

+-------------+--------------+----------+------------------------+-----------+

| employee\_id | device\_id | username | department | office |

+-------------+--------------+----------+------------------------+-----------+

| 1003 | d394e816f943 | sgilmore | Finance | South-153 |

| 1004 | e218f877g788 | eraab | Human Resources | South-127 |

| 1005 | f551g340h864 | gesparza | Human Resources | South-366 |

| 1008 | i858j583k571 | abernard | Finance | South-170 |

| 1009 | NULL | lrodriqu | Sales | South-134 |

| 1010 | k242l212m542 | jlansky | Finance | South-109 |

| 1011 | l748m120n401 | drosas | Sales | South-292 |

| 1013 | n205o559p243 | zbernal | Information Technology | South-229 |

| 1020 | u899v381w363 | arutley | Marketing | South-351 |

| 1021 | v200w121x977 | smartell | Information Technology | South-138 |

| 1024 | y976z753a267 | iuduike | Sales | South-215 |

| 1035 | j236k303l245 | bisles | Sales | South-171 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 |

| 1057 | f370g535h632 | mscott | Sales | South-270 |

| 1058 | g264h852i697 | madebowa | Marketing | South-119 |

| 1059 | h832i322j795 | jnguyen | Marketing | South-255 |

| 1064 | NULL | ejones | Marketing | South-477 |

| 1081 | d647e310f618 | qcorbit | Finance | South-290 |

| 1084 | g950h972i991 | nhuynh | Human Resources | South-155 |

| 1090 | m891n748o375 | cpatel | Information Technology | South-351 |

| 1097 | t363u179v368 | jlee | Human Resources | South-254 |

| 1102 | y943z930a241 | kselassi | Marketing | South-378 |

| 1106 | c597d792e215 | jcohen | Marketing | South-395 |

| 1112 | i772j807k175 | ccruz | Information Technology | South-298 |

| 1116 | m272n572o874 | nzhao | Sales | South-100 |

| 1118 | o305p208q337 | jpark3 | Sales | South-329 |

| 1123 | t479u468v151 | ekonya | Human Resources | South-445 |

| 1125 | v491w553x421 | mrodgers | Marketing | South-490 |

| 1131 | b265c937d713 | asierra | Information Technology | South-159 |

| 1137 | h165i539j638 | mwood | Human Resources | South-166 |

| 1138 | i671j355k725 | sromero | Finance | South-329 |

| 1141 | l282m821n717 | cochuba | Human Resources | South-282 |

| 1145 | p752q137r169 | msosa | Human Resources | South-345 |

| 1148 | s328t505u907 | dharvey | Finance | South-181 |

| 1149 | t709u492v884 | klim | Information Technology | South-411 |

| 1165 | j713k893l832 | nwords | Marketing | South-128 |

| 1168 | m778n920o426 | jharris | Information Technology | South-305 |

| 1173 | r537s849t690 | ialcazar | Marketing | South-429 |

| 1181 | z803a233b718 | sessa | Finance | South-207 |

| 1196 | o225p357q829 | sshah2 | Information Technology | South-385 |

| 1198 | q308r573s459 | jmartine | Marketing | South-117 |

+-------------+--------------+----------+------------------------+-----------+

41 rows in set (0.001 sec)

MariaDB [organization]>

## Conclusion

Great work!

You now have practical experience in using SQL to

* apply the WHERE clause to filter what a SQL query returns and
* use the LIKE operator to filter for patterns.

You’re well on your way to running SQL queries to get specific data from a database.