**Activity: Complete a SQL join**

**Activity overview**

As a security analyst, you’ll often find that you need data from more than one table.

Previously, you learned that a **relational database** is a structured database containing tables that are related to each other.

**SQL joins** enable you to combine tables that contain a shared column. This is helpful when you need to connect information that appears in different tables.

In this lab activity, you’ll use SQL joins to connect separate tables and retrieve needed information.

Get ready to apply what you’ve learned and **join** some data!

***Note:****The terms****row****and****record****are used interchangeably.*

**Scenario**

In this scenario, you’ll investigate a recent security incident that compromised some machines.

You are responsible for getting the required information from the database for the investigation.

Here’s how you’ll do this task: **First**, you’ll use an inner join to identify which employees are using which machines. **Second**, you’ll use left and right joins to find machines that do not belong to any specific user and users who do not have any specific machine assigned to them. **Finally**, you’ll use an inner join to list all login attempts made by all employees.

You’re ready to join tables in SQL!

***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. Match employees to their machines**

First, you must identify which employees are using which machines. The data is located in the machines and employees tables.

You must use a SQL inner join to return the records you need based on a connecting column. In the scenario, both tables include the device\_id column, which you’ll use to perform the join.

1. Run the following query to retrieve all records from the machines table:

SELECT \*

FROM machines;

Copied!

You’ll note that this query is not sufficient to perform the join and retrieve the information you need.

1. Complete the query to perform an inner join between the machines and employees tables on the device\_id column. Replace X and Y with this column name:

SELECT \*

FROM machines

INNER JOIN employees ON machines.X = employees.Y;

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***Note:****Placing the employees table after INNER JOIN makes it the right table.****Note:****If the output of the query is too wide for your shell, press the****Open Linux Console****button described in the Lab features section to open a full-screen view of the Bash shell, where you can re-enter the query.*

How many rows did the inner join return?

85

132

124

check185

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

You have completed this task and identified which employees are using which machines using INNER JOIN.

Match employees to their machines

*You have completed this task and identified which employees are using which machines using INNER JOIN.*

MariaDB [organization]> SELECT \*

-> FROM machines;

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

| device\_id | operating\_system | email\_client | OS\_patch\_date | employee\_id |

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

| a184b775c707 | OS 1 | Email Client 1 | 2021-09-01 | 1156 |

| a192b174c940 | OS 2 | Email Client 1 | 2021-06-01 | 1052 |

| a305b818c708 | OS 3 | Email Client 2 | 2021-06-01 | 1182 |

| a317b635c465 | OS 1 | Email Client 2 | 2021-03-01 | 1130 |

| a320b137c219 | OS 2 | Email Client 2 | 2021-03-01 | 1000 |

| a398b471c573 | OS 3 | Email Client 2 | 2021-12-01 | 0 |

| a667b270c984 | OS 1 | Email Client 1 | 2021-03-01 | 1078 |

| a821b452c176 | OS 2 | Email Client 2 | 2021-12-01 | 1104 |

| a998b568c863 | OS 3 | Email Client 1 | 2021-12-01 | 1026 |

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| b239c825d303 | OS 1 | Email Client 1 | 2021-03-01 | 1001 |

| b264c773d977 | OS 2 | Email Client 2 | 2021-03-01 | 1157 |

| b265c937d713 | OS 2 | Email Client 1 | 2021-09-01 | 1131 |

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| b551c837d758 | OS 3 | Email Client 1 | 2021-03-01 | 1105 |

| b566c710d544 | OS 1 | Email Client 1 | 2021-06-01 | 1183 |

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| b979c871d361 | OS 2 | Email Client 1 | 2021-03-01 | 1053 |

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| c150d982e144 | OS 2 | Email Client 2 | 2021-06-01 | 1132 |

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| u849v569w521 | OS 2 | Email Client 1 | 2021-06-01 | 1176 |

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| u905v920w694 | OS 1 | Email Client 1 | 2021-09-01 | 1072 |

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| v691w183x928 | OS 1 | Email Client 2 | 2021-09-01 | 1177 |

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| v852w513x954 | OS 2 | Email Client 1 | 2021-12-01 | 1151 |

| w167x592y375 | OS 3 | Email Client 1 | 2021-12-01 | 1048 |

| w190x708y760 | OS 3 | Email Client 2 | 2021-03-01 | 1126 |

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| w622x645y348 | OS 3 | Email Client 1 | 2021-03-01 | 1074 |

| w981x771y326 | OS 2 | Email Client 2 | 2021-06-01 | 0 |

| w986x187y885 | OS 3 | Email Client 2 | 2021-12-01 | 1178 |

| x127y181z890 | OS 2 | Email Client 1 | 2021-06-01 | 1127 |

| x174y934z376 | OS 1 | Email Client 2 | 2021-06-01 | 1179 |

| x253y759z103 | OS 1 | Email Client 2 | 2021-12-01 | 1023 |

| x561y839z458 | OS 2 | Email Client 1 | 2021-09-01 | 0 |

| x573y883z772 | OS 1 | Email Client 1 | 2021-12-01 | 1075 |

| x677y330z296 | OS 1 | Email Client 2 | 2021-06-01 | 1153 |

| x701y250z303 | OS 3 | Email Client 2 | 2021-03-01 | 1101 |

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| y131z211a578 | OS 2 | Email Client 1 | 2021-03-01 | 1180 |

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| y347z204a710 | OS 2 | Email Client 2 | 2021-12-01 | 1076 |

| y765z123a548 | OS 2 | Email Client 2 | 2021-06-01 | 1154 |

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| z654a154b259 | OS 2 | Email Client 2 | 2021-12-01 | 1077 |

| z803a233b718 | OS 1 | Email Client 2 | 2021-12-01 | 1181 |

| z821a946b264 | OS 3 | Email Client 2 | 2021-06-01 | 0 |

| z942a966b589 | OS 3 | Email Client 1 | 2021-09-01 | 1155 |

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

200 rows in set (0.050 sec)

MariaDB [organization]> SELECT \*

-> FROM machines

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

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

| device\_id | operating\_system | email\_client | OS\_patch\_date | employee\_id | employee\_id | device\_id | username | department | office |

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

| a320b137c219 | OS 2 | Email Client 2 | 2021-03-01 | 1000 | 1000 | a320b137c219 | elarson | Marketing | East-170 |

| b239c825d303 | OS 1 | Email Client 1 | 2021-03-01 | 1001 | 1001 | b239c825d303 | bmoreno | Marketing | Central-276 |

| c116d593e558 | OS 3 | Email Client 1 | 2021-09-01 | 1002 | 1002 | c116d593e558 | tshah | Human Resources | North-434 |

| d394e816f943 | OS 3 | Email Client 2 | 2021-03-01 | 1003 | 1003 | d394e816f943 | sgilmore | Finance | South-153 |

| e218f877g788 | OS 2 | Email Client 1 | 2021-09-01 | 1004 | 1004 | e218f877g788 | eraab | Human Resources | South-127 |

| f551g340h864 | OS 3 | Email Client 2 | 2021-12-01 | 1005 | 1005 | f551g340h864 | gesparza | Human Resources | South-366 |

| g329h357i597 | OS 1 | Email Client 2 | 2021-06-01 | 1006 | 1006 | g329h357i597 | alevitsk | Information Technology | East-320 |

| h174i497j413 | OS 2 | Email Client 1 | 2021-03-01 | 1007 | 1007 | h174i497j413 | wjaffrey | Finance | North-406 |

| i858j583k571 | OS 2 | Email Client 2 | 2021-06-01 | 1008 | 1008 | i858j583k571 | abernard | Finance | South-170 |

| k242l212m542 | OS 1 | Email Client 1 | 2021-03-01 | 1010 | 1010 | k242l212m542 | jlansky | Finance | South-109 |

| l748m120n401 | OS 3 | Email Client 1 | 2021-09-01 | 1011 | 1011 | l748m120n401 | drosas | Sales | South-292 |

| m756n668o146 | OS 1 | Email Client 2 | 2021-09-01 | 1012 | 1012 | m756n668o146 | nmason | Information Technology | North-160 |

| n205o559p243 | OS 1 | Email Client 2 | 2021-06-01 | 1013 | 1013 | n205o559p243 | zbernal | Information Technology | South-229 |

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| r550s824t230 | OS 2 | Email Client 1 | 2021-03-01 | 1017 | 1017 | r550s824t230 | jclark | Finance | North-188 |

| s310t540u653 | OS 1 | Email Client 2 | 2021-12-01 | 1018 | 1018 | s310t540u653 | abellmas | Finance | North-403 |

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| u899v381w363 | OS 3 | Email Client 1 | 2021-06-01 | 1020 | 1020 | u899v381w363 | arutley | Marketing | South-351 |

| v200w121x977 | OS 2 | Email Client 2 | 2021-03-01 | 1021 | 1021 | v200w121x977 | smartell | Information Technology | South-138 |

| w237x430y567 | OS 2 | Email Client 2 | 2021-06-01 | 1022 | 1022 | w237x430y567 | arusso | Finance | West-465 |

| x253y759z103 | OS 1 | Email Client 2 | 2021-12-01 | 1023 | 1023 | x253y759z103 | aalonso | Information Technology | West-393 |

| y976z753a267 | OS 2 | Email Client 2 | 2021-06-01 | 1024 | 1024 | y976z753a267 | iuduike | Sales | South-215 |

| z381a365b233 | OS 3 | Email Client 2 | 2021-12-01 | 1025 | 1025 | z381a365b233 | jhill | Sales | North-115 |

| a998b568c863 | OS 3 | Email Client 1 | 2021-12-01 | 1026 | 1026 | a998b568c863 | apatel | Human Resources | West-320 |

| b806c503d354 | OS 2 | Email Client 1 | 2021-12-01 | 1027 | 1027 | b806c503d354 | mrah | Marketing | West-246 |

| c603d749e374 | OS 1 | Email Client 1 | 2021-12-01 | 1028 | 1028 | c603d749e374 | aestrada | Human Resources | West-121 |

| d336e475f676 | OS 2 | Email Client 2 | 2021-06-01 | 1029 | 1029 | d336e475f676 | ivelasco | Finance | East-156 |

| e391f189g913 | OS 3 | Email Client 2 | 2021-12-01 | 1030 | 1030 | e391f189g913 | mabadi | Marketing | West-375 |

| f419g188h578 | OS 1 | Email Client 1 | 2021-06-01 | 1031 | 1031 | f419g188h578 | dkot | Marketing | West-408 |

| g773h303i639 | OS 2 | Email Client 2 | 2021-12-01 | 1032 | 1032 | g773h303i639 | jrafael | Information Technology | Central-309 |

| i679j565k940 | OS 1 | Email Client 1 | 2021-03-01 | 1034 | 1034 | i679j565k940 | bsand | Human Resources | East-484 |

| j236k303l245 | OS 1 | Email Client 1 | 2021-12-01 | 1035 | 1035 | j236k303l245 | bisles | Sales | South-171 |

| k550l533m205 | OS 3 | Email Client 2 | 2021-09-01 | 1036 | 1036 | k550l533m205 | rjensen | Marketing | Central-239 |

| l693m585n528 | OS 3 | Email Client 1 | 2021-06-01 | 1037 | 1037 | l693m585n528 | dtanaka | Information Technology | West-468 |

| m873n636o225 | OS 1 | Email Client 2 | 2021-06-01 | 1038 | 1038 | m873n636o225 | btang | Human Resources | Central-260 |

| n253o917p623 | OS 1 | Email Client 2 | 2021-09-01 | 1039 | 1039 | n253o917p623 | cjackson | Sales | East-378 |

| o783p832q294 | OS 2 | Email Client 2 | 2021-09-01 | 1040 | 1040 | o783p832q294 | dtarly | Human Resources | East-237 |

| p929q222r778 | OS 3 | Email Client 1 | 2021-06-01 | 1041 | 1041 | p929q222r778 | cgriffin | Sales | North-208 |

| q175r338s833 | OS 3 | Email Client 1 | 2021-06-01 | 1042 | 1042 | q175r338s833 | acook | Human Resources | West-381 |

| s429t157u159 | OS 1 | Email Client 1 | 2021-03-01 | 1044 | 1044 | s429t157u159 | tbarnes | Finance | West-415 |

| t567u844v434 | OS 3 | Email Client 2 | 2021-12-01 | 1045 | 1045 | t567u844v434 | pwashing | Finance | East-115 |

| u429v921w138 | OS 2 | Email Client 2 | 2021-12-01 | 1046 | 1046 | u429v921w138 | daquino | Finance | West-280 |

| v109w587x644 | OS 2 | Email Client 2 | 2021-03-01 | 1047 | 1047 | v109w587x644 | cward | Finance | West-373 |

| w167x592y375 | OS 3 | Email Client 1 | 2021-12-01 | 1048 | 1048 | w167x592y375 | tmitchel | Finance | South-288 |

| y132z930a114 | OS 2 | Email Client 2 | 2021-06-01 | 1050 | 1050 | y132z930a114 | csimmons | Finance | North-468 |

| z451a308b518 | OS 2 | Email Client 1 | 2021-03-01 | 1051 | 1051 | z451a308b518 | itraora | Marketing | Central-134 |

| a192b174c940 | OS 2 | Email Client 1 | 2021-06-01 | 1052 | 1052 | a192b174c940 | jdarosa | Marketing | East-195 |

| b979c871d361 | OS 2 | Email Client 1 | 2021-03-01 | 1053 | 1053 | b979c871d361 | nemmanue | Human Resources | Central-259 |

| c547d140e477 | OS 2 | Email Client 1 | 2021-03-01 | 1054 | 1054 | c547d140e477 | tcook | Information Technology | West-248 |

| d831e972f553 | OS 1 | Email Client 1 | 2021-09-01 | 1055 | 1055 | d831e972f553 | awilliam | Marketing | Central-256 |

| e782f537g683 | OS 1 | Email Client 1 | 2021-03-01 | 1056 | 1056 | e782f537g683 | ankala | Marketing | North-139 |

| f370g535h632 | OS 2 | Email Client 2 | 2021-09-01 | 1057 | 1057 | f370g535h632 | mscott | Sales | South-270 |

| g264h852i697 | OS 3 | Email Client 1 | 2021-03-01 | 1058 | 1058 | g264h852i697 | madebowa | Marketing | South-119 |

| h832i322j795 | OS 1 | Email Client 1 | 2021-09-01 | 1059 | 1059 | h832i322j795 | jnguyen | Marketing | South-255 |

| i446j874k974 | OS 3 | Email Client 1 | 2021-03-01 | 1060 | 1060 | i446j874k974 | tbecker | Information Technology | North-164 |

| j255k281l925 | OS 3 | Email Client 1 | 2021-06-01 | 1061 | 1061 | j255k281l925 | nhersh | Human Resources | East-163 |

| k367l639m697 | OS 1 | Email Client 1 | 2021-12-01 | 1062 | 1062 | k367l639m697 | redwards | Finance | North-180 |

| l686m140n569 | OS 3 | Email Client 2 | 2021-12-01 | 1063 | 1063 | l686m140n569 | lpope | Sales | East-226 |

| n428o322p522 | OS 1 | Email Client 1 | 2021-12-01 | 1065 | 1065 | n428o322p522 | imoore | Human Resources | West-490 |

| o678p794q957 | OS 1 | Email Client 1 | 2021-09-01 | 1066 | 1066 | o678p794q957 | ttyrell | Sales | Central-444 |

| p288q432r721 | OS 3 | Email Client 2 | 2021-12-01 | 1067 | 1067 | p288q432r721 | lwhite | Marketing | North-277 |

| q689r187s648 | OS 2 | Email Client 1 | 2021-12-01 | 1068 | 1068 | q689r187s648 | djames | Information Technology | West-438 |

| s772t175u409 | OS 1 | Email Client 1 | 2021-06-01 | 1070 | 1070 | s772t175u409 | tbailey | Human Resources | North-204 |

| t244u829v723 | OS 1 | Email Client 2 | 2021-06-01 | 1071 | 1071 | t244u829v723 | zdutchma | Sales | West-348 |

| u905v920w694 | OS 1 | Email Client 1 | 2021-09-01 | 1072 | 1072 | u905v920w694 | esmith | Sales | East-421 |

| v135w241x773 | OS 2 | Email Client 2 | 2021-12-01 | 1073 | 1073 | v135w241x773 | srobinso | Marketing | Central-494 |

| w622x645y348 | OS 3 | Email Client 1 | 2021-03-01 | 1074 | 1074 | w622x645y348 | dcoleman | Information Technology | East-126 |

| x573y883z772 | OS 1 | Email Client 1 | 2021-12-01 | 1075 | 1075 | x573y883z772 | fbautist | Marketing | East-267 |

| y347z204a710 | OS 2 | Email Client 2 | 2021-12-01 | 1076 | 1076 | y347z204a710 | fgarcia | Finance | Central-270 |

| z654a154b259 | OS 2 | Email Client 2 | 2021-12-01 | 1077 | 1077 | z654a154b259 | ldavis | Human Resources | East-241 |

| a667b270c984 | OS 1 | Email Client 1 | 2021-03-01 | 1078 | 1078 | a667b270c984 | sharley | Sales | North-418 |

| b433c245d868 | OS 1 | Email Client 1 | 2021-06-01 | 1079 | 1079 | b433c245d868 | gmedina | Marketing | North-456 |

| c568d742e974 | OS 2 | Email Client 2 | 2021-09-01 | 1080 | 1080 | c568d742e974 | gmoon | Marketing | North-156 |

| d647e310f618 | OS 2 | Email Client 2 | 2021-06-01 | 1081 | 1081 | d647e310f618 | qcorbit | Finance | South-290 |

| e301f659g551 | OS 3 | Email Client 2 | 2021-12-01 | 1082 | 1082 | e301f659g551 | mjohnson | Information Technology | East-151 |

| f840g812h544 | OS 1 | Email Client 2 | 2021-12-01 | 1083 | 1083 | f840g812h544 | gkoshi | Finance | West-165 |

| g950h972i991 | OS 2 | Email Client 1 | 2021-12-01 | 1084 | 1084 | g950h972i991 | nhuynh | Human Resources | South-155 |

| h339i498j269 | OS 1 | Email Client 1 | 2021-03-01 | 1085 | 1085 | h339i498j269 | cperez | Sales | East-325 |

| i281j129k749 | OS 3 | Email Client 1 | 2021-06-01 | 1086 | 1086 | i281j129k749 | lmajumda | Sales | West-499 |

| j803k645l251 | OS 2 | Email Client 1 | 2021-12-01 | 1087 | 1087 | j803k645l251 | ibisset | Information Technology | North-230 |

| k865l965m233 | OS 3 | Email Client 2 | 2021-12-01 | 1088 | 1088 | k865l965m233 | rgosh | Marketing | East-157 |

| l358m929n154 | OS 3 | Email Client 2 | 2021-03-01 | 1089 | 1089 | l358m929n154 | jpark2 | Sales | West-251 |

| m891n748o375 | OS 2 | Email Client 2 | 2021-12-01 | 1090 | 1090 | m891n748o375 | cpatel | Information Technology | South-351 |

| n378o313p469 | OS 3 | Email Client 2 | 2021-12-01 | 1091 | 1091 | n378o313p469 | rtran | Sales | Central-230 |

| o391p779q935 | OS 1 | Email Client 2 | 2021-06-01 | 1092 | 1092 | o391p779q935 | lpark | Sales | West-227 |

| p765q957r699 | OS 2 | Email Client 1 | 2021-06-01 | 1093 | 1093 | p765q957r699 | etargary | Human Resources | Central-247 |

| r194s893t593 | OS 1 | Email Client 2 | 2021-06-01 | 1095 | 1095 | r194s893t593 | glopez | Information Technology | East-457 |

| s375t538u194 | OS 2 | Email Client 1 | 2021-12-01 | 1096 | 1096 | s375t538u194 | kjeffers | Information Technology | East-419 |

| t363u179v368 | OS 3 | Email Client 2 | 2021-03-01 | 1097 | 1097 | t363u179v368 | jlee | Human Resources | South-254 |

| u671v146w618 | OS 1 | Email Client 2 | 2021-09-01 | 1098 | 1098 | u671v146w618 | tarchamb | Sales | North-423 |

| v283w690x104 | OS 1 | Email Client 1 | 2021-03-01 | 1099 | 1099 | v283w690x104 | anaser | Finance | West-357 |

| w326x611y598 | OS 1 | Email Client 2 | 2021-03-01 | 1100 | 1100 | w326x611y598 | mjin | Human Resources | Central-371 |

| x701y250z303 | OS 3 | Email Client 2 | 2021-03-01 | 1101 | 1101 | x701y250z303 | ichowdhu | Human Resources | East-233 |

| y943z930a241 | OS 1 | Email Client 2 | 2021-09-01 | 1102 | 1102 | y943z930a241 | kselassi | Marketing | South-378 |

| a821b452c176 | OS 2 | Email Client 2 | 2021-12-01 | 1104 | 1104 | a821b452c176 | mreed | Information Technology | West-288 |

| b551c837d758 | OS 3 | Email Client 1 | 2021-03-01 | 1105 | 1105 | b551c837d758 | kmei | Finance | Central-232 |

| c597d792e215 | OS 2 | Email Client 1 | 2021-09-01 | 1106 | 1106 | c597d792e215 | jcohen | Marketing | South-395 |

| d168e758f876 | OS 2 | Email Client 1 | 2021-09-01 | 1107 | 1107 | d168e758f876 | akajwara | Sales | North-471 |

| e113f288g203 | OS 2 | Email Client 2 | 2021-03-01 | 1108 | 1108 | e113f288g203 | jwashing | Human Resources | North-226 |

| f229g533h679 | OS 2 | Email Client 2 | 2021-03-01 | 1109 | 1109 | f229g533h679 | nlocklea | Sales | East-196 |

| g567h376i314 | OS 3 | Email Client 1 | 2021-12-01 | 1110 | 1110 | g567h376i314 | pchaudhu | Sales | Central-428 |

| h835i179j862 | OS 2 | Email Client 2 | 2021-06-01 | 1111 | 1111 | h835i179j862 | jlee | Sales | West-309 |

| i772j807k175 | OS 2 | Email Client 1 | 2021-12-01 | 1112 | 1112 | i772j807k175 | ccruz | Information Technology | South-298 |

| j781k420l510 | OS 1 | Email Client 1 | 2021-09-01 | 1113 | 1113 | j781k420l510 | pjaimes | Human Resources | East-366 |

| l552m734n118 | OS 2 | Email Client 2 | 2021-03-01 | 1115 | 1115 | l552m734n118 | esmith2 | Information Technology | Central-204 |

| m272n572o874 | OS 3 | Email Client 2 | 2021-09-01 | 1116 | 1116 | m272n572o874 | nzhao | Sales | South-100 |

| n683o758p820 | OS 2 | Email Client 1 | 2021-12-01 | 1117 | 1117 | n683o758p820 | dahmad | Sales | West-405 |

| o305p208q337 | OS 3 | Email Client 2 | 2021-03-01 | 1118 | 1118 | o305p208q337 | jpark3 | Sales | South-329 |

| p164q780r999 | OS 3 | Email Client 2 | 2021-12-01 | 1119 | 1119 | p164q780r999 | omubarak | Sales | West-409 |

| q912r119s313 | OS 2 | Email Client 1 | 2021-06-01 | 1120 | 1120 | q912r119s313 | rbradsha | Marketing | Central-200 |

| r628s557t397 | OS 1 | Email Client 1 | 2021-12-01 | 1121 | 1121 | r628s557t397 | mrojas | Sales | East-288 |

| s103t952u851 | OS 2 | Email Client 2 | 2021-03-01 | 1122 | 1122 | s103t952u851 | btorres | Finance | West-319 |

| t479u468v151 | OS 1 | Email Client 1 | 2021-06-01 | 1123 | 1123 | t479u468v151 | ekonya | Human Resources | South-445 |

| u340v931w764 | OS 2 | Email Client 2 | 2021-09-01 | 1124 | 1124 | u340v931w764 | claw | Human Resources | Central-172 |

| v491w553x421 | OS 2 | Email Client 2 | 2021-03-01 | 1125 | 1125 | v491w553x421 | mrodgers | Marketing | South-490 |

| w190x708y760 | OS 3 | Email Client 2 | 2021-03-01 | 1126 | 1126 | w190x708y760 | lmiller | Information Technology | West-296 |

| x127y181z890 | OS 2 | Email Client 1 | 2021-06-01 | 1127 | 1127 | x127y181z890 | jterranc | Information Technology | Central-256 |

| y103z561a649 | OS 2 | Email Client 1 | 2021-03-01 | 1128 | 1128 | y103z561a649 | mpirato | Human Resources | West-205 |

| z566a147b347 | OS 1 | Email Client 1 | 2021-12-01 | 1129 | 1129 | z566a147b347 | plopez | Marketing | West-326 |

| a317b635c465 | OS 1 | Email Client 2 | 2021-03-01 | 1130 | 1130 | a317b635c465 | tsnow | Sales | Central-451 |

| b265c937d713 | OS 2 | Email Client 1 | 2021-09-01 | 1131 | 1131 | b265c937d713 | asierra | Information Technology | South-159 |

| c150d982e144 | OS 2 | Email Client 2 | 2021-06-01 | 1132 | 1132 | c150d982e144 | creddy | Human Resources | Central-210 |

| d693e351f221 | OS 2 | Email Client 2 | 2021-09-01 | 1133 | 1133 | d693e351f221 | pfrey | Marketing | Central-164 |

| e395f616g566 | OS 2 | Email Client 2 | 2021-03-01 | 1134 | 1134 | e395f616g566 | akhatri | Human Resources | West-159 |

| f934g229h883 | OS 2 | Email Client 2 | 2021-03-01 | 1135 | 1135 | f934g229h883 | khamamot | Information Technology | East-186 |

| g299h520i457 | OS 2 | Email Client 1 | 2021-09-01 | 1136 | 1136 | g299h520i457 | jhawes | Finance | West-416 |

| h165i539j638 | OS 3 | Email Client 1 | 2021-03-01 | 1137 | 1137 | h165i539j638 | mwood | Human Resources | South-166 |

| i671j355k725 | OS 2 | Email Client 2 | 2021-03-01 | 1138 | 1138 | i671j355k725 | sromero | Finance | South-329 |

| j637k986l199 | OS 2 | Email Client 1 | 2021-06-01 | 1139 | 1139 | j637k986l199 | emorton | Human Resources | North-300 |

| k982l199m839 | OS 2 | Email Client 2 | 2021-03-01 | 1140 | 1140 | k982l199m839 | apatel2 | Human Resources | East-385 |

| l282m821n717 | OS 1 | Email Client 1 | 2021-12-01 | 1141 | 1141 | l282m821n717 | cochuba | Human Resources | South-282 |

| m674n127o823 | OS 3 | Email Client 2 | 2021-03-01 | 1142 | 1142 | m674n127o823 | lsilva | Finance | East-440 |

| n704o364p471 | OS 2 | Email Client 2 | 2021-09-01 | 1143 | 1143 | n704o364p471 | sstark | Information Technology | East-282 |

| p752q137r169 | OS 3 | Email Client 2 | 2021-12-01 | 1145 | 1145 | p752q137r169 | msosa | Human Resources | South-345 |

| q228r135s755 | OS 1 | Email Client 2 | 2021-09-01 | 1146 | 1146 | q228r135s755 | ulemere | Human Resources | Central-171 |

| r454s225t299 | OS 2 | Email Client 2 | 2021-12-01 | 1147 | 1147 | r454s225t299 | tvega | Finance | West-177 |

| s328t505u907 | OS 3 | Email Client 2 | 2021-12-01 | 1148 | 1148 | s328t505u907 | dharvey | Finance | South-181 |

| t709u492v884 | OS 1 | Email Client 2 | 2021-06-01 | 1149 | 1149 | t709u492v884 | klim | Information Technology | South-411 |

| u554v512w139 | OS 1 | Email Client 1 | 2021-03-01 | 1150 | 1150 | u554v512w139 | lmarin | Marketing | Central-364 |

| v852w513x954 | OS 2 | Email Client 1 | 2021-12-01 | 1151 | 1151 | v852w513x954 | sshah | Human Resources | North-272 |

| x677y330z296 | OS 1 | Email Client 2 | 2021-06-01 | 1153 | 1153 | x677y330z296 | ncardena | Marketing | Central-363 |

| y765z123a548 | OS 2 | Email Client 2 | 2021-06-01 | 1154 | 1154 | y765z123a548 | obryand | Marketing | North-182 |

| z942a966b589 | OS 3 | Email Client 1 | 2021-09-01 | 1155 | 1155 | z942a966b589 | zjones | Human Resources | East-122 |

| a184b775c707 | OS 1 | Email Client 1 | 2021-09-01 | 1156 | 1156 | a184b775c707 | dellery | Marketing | East-417 |

| b264c773d977 | OS 2 | Email Client 2 | 2021-03-01 | 1157 | 1157 | b264c773d977 | lstein | Human Resources | Central-343 |

| c406d877e950 | OS 2 | Email Client 1 | 2021-06-01 | 1158 | 1158 | c406d877e950 | bnaser | Human Resources | Central-243 |

| d881e710f732 | OS 3 | Email Client 2 | 2021-03-01 | 1159 | 1159 | d881e710f732 | jshen | Finance | East-193 |

| e127f591g924 | OS 3 | Email Client 2 | 2021-12-01 | 1160 | 1160 | e127f591g924 | spham | Marketing | West-353 |

| f951g408h866 | OS 1 | Email Client 2 | 2021-03-01 | 1161 | 1161 | f951g408h866 | jjenkins | Information Technology | East-433 |

| g953h643i618 | OS 2 | Email Client 2 | 2021-06-01 | 1162 | 1162 | g953h643i618 | iortega | Information Technology | West-381 |

| h679i515j339 | OS 3 | Email Client 1 | 2021-09-01 | 1163 | 1163 | h679i515j339 | cwilliam | Marketing | East-216 |

| i682j513k442 | OS 3 | Email Client 1 | 2021-03-01 | 1164 | 1164 | i682j513k442 | fsmeltz | Finance | North-163 |

| j713k893l832 | OS 2 | Email Client 1 | 2021-03-01 | 1165 | 1165 | j713k893l832 | nwords | Marketing | South-128 |

| k495l234m708 | OS 1 | Email Client 2 | 2021-09-01 | 1166 | 1166 | k495l234m708 | nyoung | Marketing | Central-397 |

| l738m922n515 | OS 1 | Email Client 1 | 2021-03-01 | 1167 | 1167 | l738m922n515 | tblackwe | Marketing | North-443 |

| m778n920o426 | OS 2 | Email Client 2 | 2021-06-01 | 1168 | 1168 | m778n920o426 | jharris | Information Technology | South-305 |

| o156p302q359 | OS 2 | Email Client 1 | 2021-03-01 | 1170 | 1170 | o156p302q359 | lalvarez | Human Resources | North-278 |

| p834q238r776 | OS 3 | Email Client 2 | 2021-03-01 | 1171 | 1171 | p834q238r776 | plopez2 | Information Technology | Central-496 |

| q372r826s628 | OS 2 | Email Client 1 | 2021-09-01 | 1172 | 1172 | q372r826s628 | akhan | Marketing | Central-360 |

| r537s849t690 | OS 1 | Email Client 2 | 2021-09-01 | 1173 | 1173 | r537s849t690 | ialcazar | Marketing | South-429 |

| s371t911u987 | OS 1 | Email Client 2 | 2021-06-01 | 1174 | 1174 | s371t911u987 | eortiz | Finance | North-428 |

| t959u687v394 | OS 2 | Email Client 2 | 2021-06-01 | 1175 | 1175 | t959u687v394 | jclark2 | Finance | North-194 |

| u849v569w521 | OS 2 | Email Client 1 | 2021-06-01 | 1176 | 1176 | u849v569w521 | nliu | Sales | West-220 |

| v691w183x928 | OS 1 | Email Client 2 | 2021-09-01 | 1177 | 1177 | v691w183x928 | aezra | Human Resources | East-190 |

| w986x187y885 | OS 3 | Email Client 2 | 2021-12-01 | 1178 | 1178 | w986x187y885 | nlannist | Marketing | North-196 |

| x174y934z376 | OS 1 | Email Client 2 | 2021-06-01 | 1179 | 1179 | x174y934z376 | asalas | Human Resources | North-445 |

| y131z211a578 | OS 2 | Email Client 1 | 2021-03-01 | 1180 | 1180 | y131z211a578 | medwards | Human Resources | Central-340 |

| z803a233b718 | OS 1 | Email Client 2 | 2021-12-01 | 1181 | 1181 | z803a233b718 | sessa | Finance | South-207 |

| a305b818c708 | OS 3 | Email Client 2 | 2021-06-01 | 1182 | 1182 | a305b818c708 | mmora | Information Technology | Central-250 |

| b566c710d544 | OS 1 | Email Client 1 | 2021-06-01 | 1183 | 1183 | b566c710d544 | lquraish | Human Resources | East-400 |

| c986d200e170 | OS 2 | Email Client 2 | 2021-09-01 | 1184 | 1184 | c986d200e170 | ptsosie | Human Resources | Central-247 |

| d790e839f461 | OS 1 | Email Client 1 | 2021-06-01 | 1185 | 1185 | d790e839f461 | revens | Sales | North-330 |

| e281f433g404 | OS 1 | Email Client 2 | 2021-12-01 | 1186 | 1186 | e281f433g404 | sacosta | Sales | North-460 |

| f963g637h851 | OS 1 | Email Client 1 | 2021-06-01 | 1187 | 1187 | f963g637h851 | bbode | Finance | East-351 |

| g164h566i795 | OS 1 | Email Client 1 | 2021-09-01 | 1188 | 1188 | g164h566i795 | noshiro | Finance | West-252 |

| h784i120j837 | OS 3 | Email Client 2 | 2021-12-01 | 1189 | 1189 | h784i120j837 | slefkowi | Human Resources | West-342 |

| k570l183m949 | OS 3 | Email Client 1 | 2021-12-01 | 1192 | 1192 | k570l183m949 | rlaghari | Information Technology | East-138 |

| l186m618n319 | OS 1 | Email Client 2 | 2021-12-01 | 1193 | 1193 | l186m618n319 | esantiag | Information Technology | Central-300 |

| m340n287o441 | OS 2 | Email Client 2 | 2021-09-01 | 1194 | 1194 | m340n287o441 | zwarren | Human Resources | West-212 |

| n516o853p957 | OS 1 | Email Client 1 | 2021-09-01 | 1195 | 1195 | n516o853p957 | orainier | Finance | East-346 |

| o225p357q829 | OS 3 | Email Client 1 | 2021-12-01 | 1196 | 1196 | o225p357q829 | sshah2 | Information Technology | South-385 |

| p791q114r509 | OS 2 | Email Client 1 | 2021-09-01 | 1197 | 1197 | p791q114r509 | aabara | Information Technology | North-159 |

| q308r573s459 | OS 3 | Email Client 1 | 2021-03-01 | 1198 | 1198 | q308r573s459 | jmartine | Marketing | South-117 |

| r520s571t459 | OS 2 | Email Client 2 | 2021-03-01 | 1199 | 1199 | r520s571t459 | areyes | Human Resources | East-100 |

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

185 rows in set (0.070 sec)

MariaDB [organization]>

**Task 2. Return more data**

You now must return the information on all machines and the employees who have machines. Next, you must do the reverse and retrieve the information of all employees and any machines that are assigned to them.

To achieve this, you’ll complete a left join and a right join on the employees and machines tables. The results will include all records from one or the other table. You must link these tables using the common device\_id column.

1. Run the following SQL query to connect the machines and employees tables through a left join. You must replace the keyword X in the query:

SELECT \*

FROM machines

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

Copied!

***Note:****In a left join, all records from the table referenced after FROM and before LEFT JOIN are included in the result. In this case, all records from the machines table are included, regardless of whether they are assigned to an employee or not.*

What is the value in the username column for the last record returned?

cgriffin

checkNULL

asundara

close~~areyes~~

1. Run the following SQL query to connect the machines and employees tables through a right join. You must replace the keyword X in the query to solve the problem:

SELECT \*

FROM machines

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

Copied!

***Note:****In a right join, all records from the table referenced after RIGHT JOIN are included in the result. In this case, all records from the employees table are included, regardless of whether they have a machine or not.*

What is the value in the username column for the last record returned?

cgriffin

asundara

NULL

checkareyes

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

You have completed this task and performed a left join and right join on the employees and machines tables.

Return more data

*You have completed this task and performed a left join and right join on the employees and machines tables.*

ariaDB [organization]>

MariaDB [organization]>

MariaDB [organization]> SELECT \*

-> FROM machines

-> left JOIN employees ON machines.device\_id = employees.device\_id;

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

| device\_id | operating\_system | email\_client | OS\_patch\_date | employee\_id | employee\_id | device\_id | username | department | office |

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

| a320b137c219 | OS 2 | Email Client 2 | 2021-03-01 | 1000 | 1000 | a320b137c219 | elarson | Marketing | East-170 |

| b239c825d303 | OS 1 | Email Client 1 | 2021-03-01 | 1001 | 1001 | b239c825d303 | bmoreno | Marketing | Central-276 |

| c116d593e558 | OS 3 | Email Client 1 | 2021-09-01 | 1002 | 1002 | c116d593e558 | tshah | Human Resources | North-434 |

| d394e816f943 | OS 3 | Email Client 2 | 2021-03-01 | 1003 | 1003 | d394e816f943 | sgilmore | Finance | South-153 |

| e218f877g788 | OS 2 | Email Client 1 | 2021-09-01 | 1004 | 1004 | e218f877g788 | eraab | Human Resources | South-127 |

| f551g340h864 | OS 3 | Email Client 2 | 2021-12-01 | 1005 | 1005 | f551g340h864 | gesparza | Human Resources | South-366 |

| g329h357i597 | OS 1 | Email Client 2 | 2021-06-01 | 1006 | 1006 | g329h357i597 | alevitsk | Information Technology | East-320 |

| h174i497j413 | OS 2 | Email Client 1 | 2021-03-01 | 1007 | 1007 | h174i497j413 | wjaffrey | Finance | North-406 |

| i858j583k571 | OS 2 | Email Client 2 | 2021-06-01 | 1008 | 1008 | i858j583k571 | abernard | Finance | South-170 |

| k242l212m542 | OS 1 | Email Client 1 | 2021-03-01 | 1010 | 1010 | k242l212m542 | jlansky | Finance | South-109 |

| l748m120n401 | OS 3 | Email Client 1 | 2021-09-01 | 1011 | 1011 | l748m120n401 | drosas | Sales | South-292 |

| m756n668o146 | OS 1 | Email Client 2 | 2021-09-01 | 1012 | 1012 | m756n668o146 | nmason | Information Technology | North-160 |

| n205o559p243 | OS 1 | Email Client 2 | 2021-06-01 | 1013 | 1013 | n205o559p243 | zbernal | Information Technology | South-229 |

| p611q262r945 | OS 1 | Email Client 2 | 2021-03-01 | 1015 | 1015 | p611q262r945 | jsoto | Finance | North-271 |

| q793r736s288 | OS 2 | Email Client 1 | 2021-03-01 | 1016 | 1016 | q793r736s288 | sbaelish | Human Resources | North-229 |

| r550s824t230 | OS 2 | Email Client 1 | 2021-03-01 | 1017 | 1017 | r550s824t230 | jclark | Finance | North-188 |

| s310t540u653 | OS 1 | Email Client 2 | 2021-12-01 | 1018 | 1018 | s310t540u653 | abellmas | Finance | North-403 |

| t815u205v470 | OS 3 | Email Client 1 | 2021-06-01 | 1019 | 1019 | t815u205v470 | mcouliba | Information Technology | North-108 |

| u899v381w363 | OS 3 | Email Client 1 | 2021-06-01 | 1020 | 1020 | u899v381w363 | arutley | Marketing | South-351 |

| v200w121x977 | OS 2 | Email Client 2 | 2021-03-01 | 1021 | 1021 | v200w121x977 | smartell | Information Technology | South-138 |

| w237x430y567 | OS 2 | Email Client 2 | 2021-06-01 | 1022 | 1022 | w237x430y567 | arusso | Finance | West-465 |

| x253y759z103 | OS 1 | Email Client 2 | 2021-12-01 | 1023 | 1023 | x253y759z103 | aalonso | Information Technology | West-393 |

| y976z753a267 | OS 2 | Email Client 2 | 2021-06-01 | 1024 | 1024 | y976z753a267 | iuduike | Sales | South-215 |

| z381a365b233 | OS 3 | Email Client 2 | 2021-12-01 | 1025 | 1025 | z381a365b233 | jhill | Sales | North-115 |

| a998b568c863 | OS 3 | Email Client 1 | 2021-12-01 | 1026 | 1026 | a998b568c863 | apatel | Human Resources | West-320 |

| b806c503d354 | OS 2 | Email Client 1 | 2021-12-01 | 1027 | 1027 | b806c503d354 | mrah | Marketing | West-246 |

| c603d749e374 | OS 1 | Email Client 1 | 2021-12-01 | 1028 | 1028 | c603d749e374 | aestrada | Human Resources | West-121 |

| d336e475f676 | OS 2 | Email Client 2 | 2021-06-01 | 1029 | 1029 | d336e475f676 | ivelasco | Finance | East-156 |

| e391f189g913 | OS 3 | Email Client 2 | 2021-12-01 | 1030 | 1030 | e391f189g913 | mabadi | Marketing | West-375 |

| f419g188h578 | OS 1 | Email Client 1 | 2021-06-01 | 1031 | 1031 | f419g188h578 | dkot | Marketing | West-408 |

| g773h303i639 | OS 2 | Email Client 2 | 2021-12-01 | 1032 | 1032 | g773h303i639 | jrafael | Information Technology | Central-309 |

| i679j565k940 | OS 1 | Email Client 1 | 2021-03-01 | 1034 | 1034 | i679j565k940 | bsand | Human Resources | East-484 |

| j236k303l245 | OS 1 | Email Client 1 | 2021-12-01 | 1035 | 1035 | j236k303l245 | bisles | Sales | South-171 |

| k550l533m205 | OS 3 | Email Client 2 | 2021-09-01 | 1036 | 1036 | k550l533m205 | rjensen | Marketing | Central-239 |

| l693m585n528 | OS 3 | Email Client 1 | 2021-06-01 | 1037 | 1037 | l693m585n528 | dtanaka | Information Technology | West-468 |

| m873n636o225 | OS 1 | Email Client 2 | 2021-06-01 | 1038 | 1038 | m873n636o225 | btang | Human Resources | Central-260 |

| n253o917p623 | OS 1 | Email Client 2 | 2021-09-01 | 1039 | 1039 | n253o917p623 | cjackson | Sales | East-378 |

| o783p832q294 | OS 2 | Email Client 2 | 2021-09-01 | 1040 | 1040 | o783p832q294 | dtarly | Human Resources | East-237 |

| p929q222r778 | OS 3 | Email Client 1 | 2021-06-01 | 1041 | 1041 | p929q222r778 | cgriffin | Sales | North-208 |

| q175r338s833 | OS 3 | Email Client 1 | 2021-06-01 | 1042 | 1042 | q175r338s833 | acook | Human Resources | West-381 |

| s429t157u159 | OS 1 | Email Client 1 | 2021-03-01 | 1044 | 1044 | s429t157u159 | tbarnes | Finance | West-415 |

| t567u844v434 | OS 3 | Email Client 2 | 2021-12-01 | 1045 | 1045 | t567u844v434 | pwashing | Finance | East-115 |

| u429v921w138 | OS 2 | Email Client 2 | 2021-12-01 | 1046 | 1046 | u429v921w138 | daquino | Finance | West-280 |

| v109w587x644 | OS 2 | Email Client 2 | 2021-03-01 | 1047 | 1047 | v109w587x644 | cward | Finance | West-373 |

| w167x592y375 | OS 3 | Email Client 1 | 2021-12-01 | 1048 | 1048 | w167x592y375 | tmitchel | Finance | South-288 |

| y132z930a114 | OS 2 | Email Client 2 | 2021-06-01 | 1050 | 1050 | y132z930a114 | csimmons | Finance | North-468 |

| z451a308b518 | OS 2 | Email Client 1 | 2021-03-01 | 1051 | 1051 | z451a308b518 | itraora | Marketing | Central-134 |

| a192b174c940 | OS 2 | Email Client 1 | 2021-06-01 | 1052 | 1052 | a192b174c940 | jdarosa | Marketing | East-195 |

| b979c871d361 | OS 2 | Email Client 1 | 2021-03-01 | 1053 | 1053 | b979c871d361 | nemmanue | Human Resources | Central-259 |

| c547d140e477 | OS 2 | Email Client 1 | 2021-03-01 | 1054 | 1054 | c547d140e477 | tcook | Information Technology | West-248 |

| d831e972f553 | OS 1 | Email Client 1 | 2021-09-01 | 1055 | 1055 | d831e972f553 | awilliam | Marketing | Central-256 |

| e782f537g683 | OS 1 | Email Client 1 | 2021-03-01 | 1056 | 1056 | e782f537g683 | ankala | Marketing | North-139 |

| f370g535h632 | OS 2 | Email Client 2 | 2021-09-01 | 1057 | 1057 | f370g535h632 | mscott | Sales | South-270 |

| g264h852i697 | OS 3 | Email Client 1 | 2021-03-01 | 1058 | 1058 | g264h852i697 | madebowa | Marketing | South-119 |

| h832i322j795 | OS 1 | Email Client 1 | 2021-09-01 | 1059 | 1059 | h832i322j795 | jnguyen | Marketing | South-255 |

| i446j874k974 | OS 3 | Email Client 1 | 2021-03-01 | 1060 | 1060 | i446j874k974 | tbecker | Information Technology | North-164 |

| j255k281l925 | OS 3 | Email Client 1 | 2021-06-01 | 1061 | 1061 | j255k281l925 | nhersh | Human Resources | East-163 |

| k367l639m697 | OS 1 | Email Client 1 | 2021-12-01 | 1062 | 1062 | k367l639m697 | redwards | Finance | North-180 |

| l686m140n569 | OS 3 | Email Client 2 | 2021-12-01 | 1063 | 1063 | l686m140n569 | lpope | Sales | East-226 |

| n428o322p522 | OS 1 | Email Client 1 | 2021-12-01 | 1065 | 1065 | n428o322p522 | imoore | Human Resources | West-490 |

| o678p794q957 | OS 1 | Email Client 1 | 2021-09-01 | 1066 | 1066 | o678p794q957 | ttyrell | Sales | Central-444 |

| p288q432r721 | OS 3 | Email Client 2 | 2021-12-01 | 1067 | 1067 | p288q432r721 | lwhite | Marketing | North-277 |

| q689r187s648 | OS 2 | Email Client 1 | 2021-12-01 | 1068 | 1068 | q689r187s648 | djames | Information Technology | West-438 |

| s772t175u409 | OS 1 | Email Client 1 | 2021-06-01 | 1070 | 1070 | s772t175u409 | tbailey | Human Resources | North-204 |

| t244u829v723 | OS 1 | Email Client 2 | 2021-06-01 | 1071 | 1071 | t244u829v723 | zdutchma | Sales | West-348 |

| u905v920w694 | OS 1 | Email Client 1 | 2021-09-01 | 1072 | 1072 | u905v920w694 | esmith | Sales | East-421 |

| v135w241x773 | OS 2 | Email Client 2 | 2021-12-01 | 1073 | 1073 | v135w241x773 | srobinso | Marketing | Central-494 |

| w622x645y348 | OS 3 | Email Client 1 | 2021-03-01 | 1074 | 1074 | w622x645y348 | dcoleman | Information Technology | East-126 |

| x573y883z772 | OS 1 | Email Client 1 | 2021-12-01 | 1075 | 1075 | x573y883z772 | fbautist | Marketing | East-267 |

| y347z204a710 | OS 2 | Email Client 2 | 2021-12-01 | 1076 | 1076 | y347z204a710 | fgarcia | Finance | Central-270 |

| z654a154b259 | OS 2 | Email Client 2 | 2021-12-01 | 1077 | 1077 | z654a154b259 | ldavis | Human Resources | East-241 |

| a667b270c984 | OS 1 | Email Client 1 | 2021-03-01 | 1078 | 1078 | a667b270c984 | sharley | Sales | North-418 |

| b433c245d868 | OS 1 | Email Client 1 | 2021-06-01 | 1079 | 1079 | b433c245d868 | gmedina | Marketing | North-456 |

| c568d742e974 | OS 2 | Email Client 2 | 2021-09-01 | 1080 | 1080 | c568d742e974 | gmoon | Marketing | North-156 |

| d647e310f618 | OS 2 | Email Client 2 | 2021-06-01 | 1081 | 1081 | d647e310f618 | qcorbit | Finance | South-290 |

| e301f659g551 | OS 3 | Email Client 2 | 2021-12-01 | 1082 | 1082 | e301f659g551 | mjohnson | Information Technology | East-151 |

| f840g812h544 | OS 1 | Email Client 2 | 2021-12-01 | 1083 | 1083 | f840g812h544 | gkoshi | Finance | West-165 |

| g950h972i991 | OS 2 | Email Client 1 | 2021-12-01 | 1084 | 1084 | g950h972i991 | nhuynh | Human Resources | South-155 |

| h339i498j269 | OS 1 | Email Client 1 | 2021-03-01 | 1085 | 1085 | h339i498j269 | cperez | Sales | East-325 |

| i281j129k749 | OS 3 | Email Client 1 | 2021-06-01 | 1086 | 1086 | i281j129k749 | lmajumda | Sales | West-499 |

| j803k645l251 | OS 2 | Email Client 1 | 2021-12-01 | 1087 | 1087 | j803k645l251 | ibisset | Information Technology | North-230 |

| k865l965m233 | OS 3 | Email Client 2 | 2021-12-01 | 1088 | 1088 | k865l965m233 | rgosh | Marketing | East-157 |

| l358m929n154 | OS 3 | Email Client 2 | 2021-03-01 | 1089 | 1089 | l358m929n154 | jpark2 | Sales | West-251 |

| m891n748o375 | OS 2 | Email Client 2 | 2021-12-01 | 1090 | 1090 | m891n748o375 | cpatel | Information Technology | South-351 |

| n378o313p469 | OS 3 | Email Client 2 | 2021-12-01 | 1091 | 1091 | n378o313p469 | rtran | Sales | Central-230 |

| o391p779q935 | OS 1 | Email Client 2 | 2021-06-01 | 1092 | 1092 | o391p779q935 | lpark | Sales | West-227 |

| p765q957r699 | OS 2 | Email Client 1 | 2021-06-01 | 1093 | 1093 | p765q957r699 | etargary | Human Resources | Central-247 |

| r194s893t593 | OS 1 | Email Client 2 | 2021-06-01 | 1095 | 1095 | r194s893t593 | glopez | Information Technology | East-457 |

| s375t538u194 | OS 2 | Email Client 1 | 2021-12-01 | 1096 | 1096 | s375t538u194 | kjeffers | Information Technology | East-419 |

| t363u179v368 | OS 3 | Email Client 2 | 2021-03-01 | 1097 | 1097 | t363u179v368 | jlee | Human Resources | South-254 |

| u671v146w618 | OS 1 | Email Client 2 | 2021-09-01 | 1098 | 1098 | u671v146w618 | tarchamb | Sales | North-423 |

| v283w690x104 | OS 1 | Email Client 1 | 2021-03-01 | 1099 | 1099 | v283w690x104 | anaser | Finance | West-357 |

| w326x611y598 | OS 1 | Email Client 2 | 2021-03-01 | 1100 | 1100 | w326x611y598 | mjin | Human Resources | Central-371 |

| x701y250z303 | OS 3 | Email Client 2 | 2021-03-01 | 1101 | 1101 | x701y250z303 | ichowdhu | Human Resources | East-233 |

| y943z930a241 | OS 1 | Email Client 2 | 2021-09-01 | 1102 | 1102 | y943z930a241 | kselassi | Marketing | South-378 |

| a821b452c176 | OS 2 | Email Client 2 | 2021-12-01 | 1104 | 1104 | a821b452c176 | mreed | Information Technology | West-288 |

| b551c837d758 | OS 3 | Email Client 1 | 2021-03-01 | 1105 | 1105 | b551c837d758 | kmei | Finance | Central-232 |

| c597d792e215 | OS 2 | Email Client 1 | 2021-09-01 | 1106 | 1106 | c597d792e215 | jcohen | Marketing | South-395 |

| d168e758f876 | OS 2 | Email Client 1 | 2021-09-01 | 1107 | 1107 | d168e758f876 | akajwara | Sales | North-471 |

| e113f288g203 | OS 2 | Email Client 2 | 2021-03-01 | 1108 | 1108 | e113f288g203 | jwashing | Human Resources | North-226 |

| f229g533h679 | OS 2 | Email Client 2 | 2021-03-01 | 1109 | 1109 | f229g533h679 | nlocklea | Sales | East-196 |

| g567h376i314 | OS 3 | Email Client 1 | 2021-12-01 | 1110 | 1110 | g567h376i314 | pchaudhu | Sales | Central-428 |

| h835i179j862 | OS 2 | Email Client 2 | 2021-06-01 | 1111 | 1111 | h835i179j862 | jlee | Sales | West-309 |

| i772j807k175 | OS 2 | Email Client 1 | 2021-12-01 | 1112 | 1112 | i772j807k175 | ccruz | Information Technology | South-298 |

| j781k420l510 | OS 1 | Email Client 1 | 2021-09-01 | 1113 | 1113 | j781k420l510 | pjaimes | Human Resources | East-366 |

| l552m734n118 | OS 2 | Email Client 2 | 2021-03-01 | 1115 | 1115 | l552m734n118 | esmith2 | Information Technology | Central-204 |

| m272n572o874 | OS 3 | Email Client 2 | 2021-09-01 | 1116 | 1116 | m272n572o874 | nzhao | Sales | South-100 |

| n683o758p820 | OS 2 | Email Client 1 | 2021-12-01 | 1117 | 1117 | n683o758p820 | dahmad | Sales | West-405 |

| o305p208q337 | OS 3 | Email Client 2 | 2021-03-01 | 1118 | 1118 | o305p208q337 | jpark3 | Sales | South-329 |

| p164q780r999 | OS 3 | Email Client 2 | 2021-12-01 | 1119 | 1119 | p164q780r999 | omubarak | Sales | West-409 |

| q912r119s313 | OS 2 | Email Client 1 | 2021-06-01 | 1120 | 1120 | q912r119s313 | rbradsha | Marketing | Central-200 |

| r628s557t397 | OS 1 | Email Client 1 | 2021-12-01 | 1121 | 1121 | r628s557t397 | mrojas | Sales | East-288 |

| s103t952u851 | OS 2 | Email Client 2 | 2021-03-01 | 1122 | 1122 | s103t952u851 | btorres | Finance | West-319 |

| t479u468v151 | OS 1 | Email Client 1 | 2021-06-01 | 1123 | 1123 | t479u468v151 | ekonya | Human Resources | South-445 |

| u340v931w764 | OS 2 | Email Client 2 | 2021-09-01 | 1124 | 1124 | u340v931w764 | claw | Human Resources | Central-172 |

| v491w553x421 | OS 2 | Email Client 2 | 2021-03-01 | 1125 | 1125 | v491w553x421 | mrodgers | Marketing | South-490 |

| w190x708y760 | OS 3 | Email Client 2 | 2021-03-01 | 1126 | 1126 | w190x708y760 | lmiller | Information Technology | West-296 |

| x127y181z890 | OS 2 | Email Client 1 | 2021-06-01 | 1127 | 1127 | x127y181z890 | jterranc | Information Technology | Central-256 |

| y103z561a649 | OS 2 | Email Client 1 | 2021-03-01 | 1128 | 1128 | y103z561a649 | mpirato | Human Resources | West-205 |

| z566a147b347 | OS 1 | Email Client 1 | 2021-12-01 | 1129 | 1129 | z566a147b347 | plopez | Marketing | West-326 |

| a317b635c465 | OS 1 | Email Client 2 | 2021-03-01 | 1130 | 1130 | a317b635c465 | tsnow | Sales | Central-451 |

| b265c937d713 | OS 2 | Email Client 1 | 2021-09-01 | 1131 | 1131 | b265c937d713 | asierra | Information Technology | South-159 |

| c150d982e144 | OS 2 | Email Client 2 | 2021-06-01 | 1132 | 1132 | c150d982e144 | creddy | Human Resources | Central-210 |

| d693e351f221 | OS 2 | Email Client 2 | 2021-09-01 | 1133 | 1133 | d693e351f221 | pfrey | Marketing | Central-164 |

| e395f616g566 | OS 2 | Email Client 2 | 2021-03-01 | 1134 | 1134 | e395f616g566 | akhatri | Human Resources | West-159 |

| f934g229h883 | OS 2 | Email Client 2 | 2021-03-01 | 1135 | 1135 | f934g229h883 | khamamot | Information Technology | East-186 |

| g299h520i457 | OS 2 | Email Client 1 | 2021-09-01 | 1136 | 1136 | g299h520i457 | jhawes | Finance | West-416 |

| h165i539j638 | OS 3 | Email Client 1 | 2021-03-01 | 1137 | 1137 | h165i539j638 | mwood | Human Resources | South-166 |

| i671j355k725 | OS 2 | Email Client 2 | 2021-03-01 | 1138 | 1138 | i671j355k725 | sromero | Finance | South-329 |

| j637k986l199 | OS 2 | Email Client 1 | 2021-06-01 | 1139 | 1139 | j637k986l199 | emorton | Human Resources | North-300 |

| k982l199m839 | OS 2 | Email Client 2 | 2021-03-01 | 1140 | 1140 | k982l199m839 | apatel2 | Human Resources | East-385 |

| l282m821n717 | OS 1 | Email Client 1 | 2021-12-01 | 1141 | 1141 | l282m821n717 | cochuba | Human Resources | South-282 |

| m674n127o823 | OS 3 | Email Client 2 | 2021-03-01 | 1142 | 1142 | m674n127o823 | lsilva | Finance | East-440 |

| n704o364p471 | OS 2 | Email Client 2 | 2021-09-01 | 1143 | 1143 | n704o364p471 | sstark | Information Technology | East-282 |

| p752q137r169 | OS 3 | Email Client 2 | 2021-12-01 | 1145 | 1145 | p752q137r169 | msosa | Human Resources | South-345 |

| q228r135s755 | OS 1 | Email Client 2 | 2021-09-01 | 1146 | 1146 | q228r135s755 | ulemere | Human Resources | Central-171 |

| r454s225t299 | OS 2 | Email Client 2 | 2021-12-01 | 1147 | 1147 | r454s225t299 | tvega | Finance | West-177 |

| s328t505u907 | OS 3 | Email Client 2 | 2021-12-01 | 1148 | 1148 | s328t505u907 | dharvey | Finance | South-181 |

| t709u492v884 | OS 1 | Email Client 2 | 2021-06-01 | 1149 | 1149 | t709u492v884 | klim | Information Technology | South-411 |

| u554v512w139 | OS 1 | Email Client 1 | 2021-03-01 | 1150 | 1150 | u554v512w139 | lmarin | Marketing | Central-364 |

| v852w513x954 | OS 2 | Email Client 1 | 2021-12-01 | 1151 | 1151 | v852w513x954 | sshah | Human Resources | North-272 |

| x677y330z296 | OS 1 | Email Client 2 | 2021-06-01 | 1153 | 1153 | x677y330z296 | ncardena | Marketing | Central-363 |

| y765z123a548 | OS 2 | Email Client 2 | 2021-06-01 | 1154 | 1154 | y765z123a548 | obryand | Marketing | North-182 |

| z942a966b589 | OS 3 | Email Client 1 | 2021-09-01 | 1155 | 1155 | z942a966b589 | zjones | Human Resources | East-122 |

| a184b775c707 | OS 1 | Email Client 1 | 2021-09-01 | 1156 | 1156 | a184b775c707 | dellery | Marketing | East-417 |

| b264c773d977 | OS 2 | Email Client 2 | 2021-03-01 | 1157 | 1157 | b264c773d977 | lstein | Human Resources | Central-343 |

| c406d877e950 | OS 2 | Email Client 1 | 2021-06-01 | 1158 | 1158 | c406d877e950 | bnaser | Human Resources | Central-243 |

| d881e710f732 | OS 3 | Email Client 2 | 2021-03-01 | 1159 | 1159 | d881e710f732 | jshen | Finance | East-193 |

| e127f591g924 | OS 3 | Email Client 2 | 2021-12-01 | 1160 | 1160 | e127f591g924 | spham | Marketing | West-353 |

| f951g408h866 | OS 1 | Email Client 2 | 2021-03-01 | 1161 | 1161 | f951g408h866 | jjenkins | Information Technology | East-433 |

| g953h643i618 | OS 2 | Email Client 2 | 2021-06-01 | 1162 | 1162 | g953h643i618 | iortega | Information Technology | West-381 |

| h679i515j339 | OS 3 | Email Client 1 | 2021-09-01 | 1163 | 1163 | h679i515j339 | cwilliam | Marketing | East-216 |

| i682j513k442 | OS 3 | Email Client 1 | 2021-03-01 | 1164 | 1164 | i682j513k442 | fsmeltz | Finance | North-163 |

| j713k893l832 | OS 2 | Email Client 1 | 2021-03-01 | 1165 | 1165 | j713k893l832 | nwords | Marketing | South-128 |

| k495l234m708 | OS 1 | Email Client 2 | 2021-09-01 | 1166 | 1166 | k495l234m708 | nyoung | Marketing | Central-397 |

| l738m922n515 | OS 1 | Email Client 1 | 2021-03-01 | 1167 | 1167 | l738m922n515 | tblackwe | Marketing | North-443 |

| m778n920o426 | OS 2 | Email Client 2 | 2021-06-01 | 1168 | 1168 | m778n920o426 | jharris | Information Technology | South-305 |

| o156p302q359 | OS 2 | Email Client 1 | 2021-03-01 | 1170 | 1170 | o156p302q359 | lalvarez | Human Resources | North-278 |

| p834q238r776 | OS 3 | Email Client 2 | 2021-03-01 | 1171 | 1171 | p834q238r776 | plopez2 | Information Technology | Central-496 |

| q372r826s628 | OS 2 | Email Client 1 | 2021-09-01 | 1172 | 1172 | q372r826s628 | akhan | Marketing | Central-360 |

| r537s849t690 | OS 1 | Email Client 2 | 2021-09-01 | 1173 | 1173 | r537s849t690 | ialcazar | Marketing | South-429 |

| s371t911u987 | OS 1 | Email Client 2 | 2021-06-01 | 1174 | 1174 | s371t911u987 | eortiz | Finance | North-428 |

| t959u687v394 | OS 2 | Email Client 2 | 2021-06-01 | 1175 | 1175 | t959u687v394 | jclark2 | Finance | North-194 |

| u849v569w521 | OS 2 | Email Client 1 | 2021-06-01 | 1176 | 1176 | u849v569w521 | nliu | Sales | West-220 |

| v691w183x928 | OS 1 | Email Client 2 | 2021-09-01 | 1177 | 1177 | v691w183x928 | aezra | Human Resources | East-190 |

| w986x187y885 | OS 3 | Email Client 2 | 2021-12-01 | 1178 | 1178 | w986x187y885 | nlannist | Marketing | North-196 |

| x174y934z376 | OS 1 | Email Client 2 | 2021-06-01 | 1179 | 1179 | x174y934z376 | asalas | Human Resources | North-445 |

| y131z211a578 | OS 2 | Email Client 1 | 2021-03-01 | 1180 | 1180 | y131z211a578 | medwards | Human Resources | Central-340 |

| z803a233b718 | OS 1 | Email Client 2 | 2021-12-01 | 1181 | 1181 | z803a233b718 | sessa | Finance | South-207 |

| a305b818c708 | OS 3 | Email Client 2 | 2021-06-01 | 1182 | 1182 | a305b818c708 | mmora | Information Technology | Central-250 |

| b566c710d544 | OS 1 | Email Client 1 | 2021-06-01 | 1183 | 1183 | b566c710d544 | lquraish | Human Resources | East-400 |

| c986d200e170 | OS 2 | Email Client 2 | 2021-09-01 | 1184 | 1184 | c986d200e170 | ptsosie | Human Resources | Central-247 |

| d790e839f461 | OS 1 | Email Client 1 | 2021-06-01 | 1185 | 1185 | d790e839f461 | revens | Sales | North-330 |

| e281f433g404 | OS 1 | Email Client 2 | 2021-12-01 | 1186 | 1186 | e281f433g404 | sacosta | Sales | North-460 |

| f963g637h851 | OS 1 | Email Client 1 | 2021-06-01 | 1187 | 1187 | f963g637h851 | bbode | Finance | East-351 |

| g164h566i795 | OS 1 | Email Client 1 | 2021-09-01 | 1188 | 1188 | g164h566i795 | noshiro | Finance | West-252 |

| h784i120j837 | OS 3 | Email Client 2 | 2021-12-01 | 1189 | 1189 | h784i120j837 | slefkowi | Human Resources | West-342 |

| k570l183m949 | OS 3 | Email Client 1 | 2021-12-01 | 1192 | 1192 | k570l183m949 | rlaghari | Information Technology | East-138 |

| l186m618n319 | OS 1 | Email Client 2 | 2021-12-01 | 1193 | 1193 | l186m618n319 | esantiag | Information Technology | Central-300 |

| m340n287o441 | OS 2 | Email Client 2 | 2021-09-01 | 1194 | 1194 | m340n287o441 | zwarren | Human Resources | West-212 |

| n516o853p957 | OS 1 | Email Client 1 | 2021-09-01 | 1195 | 1195 | n516o853p957 | orainier | Finance | East-346 |

| o225p357q829 | OS 3 | Email Client 1 | 2021-12-01 | 1196 | 1196 | o225p357q829 | sshah2 | Information Technology | South-385 |

| p791q114r509 | OS 2 | Email Client 1 | 2021-09-01 | 1197 | 1197 | p791q114r509 | aabara | Information Technology | North-159 |

| q308r573s459 | OS 3 | Email Client 1 | 2021-03-01 | 1198 | 1198 | q308r573s459 | jmartine | Marketing | South-117 |

| r520s571t459 | OS 2 | Email Client 2 | 2021-03-01 | 1199 | 1199 | r520s571t459 | areyes | Human Resources | East-100 |

| a398b471c573 | OS 3 | Email Client 2 | 2021-12-01 | 0 | NULL | NULL | NULL | NULL | NULL |

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| g770h829i938 | OS 2 | Email Client 1 | 2021-09-01 | 0 | NULL | NULL | NULL | NULL | NULL |

| s918t412u294 | OS 3 | Email Client 2 | 2021-12-01 | 0 | NULL | NULL | NULL | NULL | NULL |

| t801u630v138 | OS 2 | Email Client 2 | 2021-03-01 | 0 | NULL | NULL | NULL | NULL | NULL |

| u113v483w811 | OS 3 | Email Client 2 | 2021-06-01 | 0 | NULL | NULL | NULL | NULL | NULL |

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| x561y839z458 | OS 2 | Email Client 1 | 2021-09-01 | 0 | NULL | NULL | NULL | NULL | NULL |

| y246z508a775 | OS 2 | Email Client 1 | 2021-12-01 | 0 | NULL | NULL | NULL | NULL | NULL |

| z821a946b264 | OS 3 | Email Client 2 | 2021-06-01 | 0 | NULL | NULL | NULL | NULL | NULL |

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

200 rows in set (0.008 sec)

MariaDB [organization]>

MariaDB [organization]>

MariaDB [organization]> SELECT \*

-> FROM machines

-> right JOIN employees ON machines.device\_id = employees.device\_id;

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

| device\_id | operating\_system | email\_client | OS\_patch\_date | employee\_id | employee\_id | device\_id | username | department | office |

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

| a320b137c219 | OS 2 | Email Client 2 | 2021-03-01 | 1000 | 1000 | a320b137c219 | elarson | Marketing | East-170 |

| b239c825d303 | OS 1 | Email Client 1 | 2021-03-01 | 1001 | 1001 | b239c825d303 | bmoreno | Marketing | Central-276 |

| c116d593e558 | OS 3 | Email Client 1 | 2021-09-01 | 1002 | 1002 | c116d593e558 | tshah | Human Resources | North-434 |

| d394e816f943 | OS 3 | Email Client 2 | 2021-03-01 | 1003 | 1003 | d394e816f943 | sgilmore | Finance | South-153 |

| e218f877g788 | OS 2 | Email Client 1 | 2021-09-01 | 1004 | 1004 | e218f877g788 | eraab | Human Resources | South-127 |

| f551g340h864 | OS 3 | Email Client 2 | 2021-12-01 | 1005 | 1005 | f551g340h864 | gesparza | Human Resources | South-366 |

| g329h357i597 | OS 1 | Email Client 2 | 2021-06-01 | 1006 | 1006 | g329h357i597 | alevitsk | Information Technology | East-320 |

| h174i497j413 | OS 2 | Email Client 1 | 2021-03-01 | 1007 | 1007 | h174i497j413 | wjaffrey | Finance | North-406 |

| i858j583k571 | OS 2 | Email Client 2 | 2021-06-01 | 1008 | 1008 | i858j583k571 | abernard | Finance | South-170 |

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| l748m120n401 | OS 3 | Email Client 1 | 2021-09-01 | 1011 | 1011 | l748m120n401 | drosas | Sales | South-292 |

| m756n668o146 | OS 1 | Email Client 2 | 2021-09-01 | 1012 | 1012 | m756n668o146 | nmason | Information Technology | North-160 |

| n205o559p243 | OS 1 | Email Client 2 | 2021-06-01 | 1013 | 1013 | n205o559p243 | zbernal | Information Technology | South-229 |

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| p611q262r945 | OS 1 | Email Client 2 | 2021-03-01 | 1015 | 1015 | p611q262r945 | jsoto | Finance | North-271 |

| q793r736s288 | OS 2 | Email Client 1 | 2021-03-01 | 1016 | 1016 | q793r736s288 | sbaelish | Human Resources | North-229 |

| r550s824t230 | OS 2 | Email Client 1 | 2021-03-01 | 1017 | 1017 | r550s824t230 | jclark | Finance | North-188 |

| s310t540u653 | OS 1 | Email Client 2 | 2021-12-01 | 1018 | 1018 | s310t540u653 | abellmas | Finance | North-403 |

| t815u205v470 | OS 3 | Email Client 1 | 2021-06-01 | 1019 | 1019 | t815u205v470 | mcouliba | Information Technology | North-108 |

| u899v381w363 | OS 3 | Email Client 1 | 2021-06-01 | 1020 | 1020 | u899v381w363 | arutley | Marketing | South-351 |

| v200w121x977 | OS 2 | Email Client 2 | 2021-03-01 | 1021 | 1021 | v200w121x977 | smartell | Information Technology | South-138 |

| w237x430y567 | OS 2 | Email Client 2 | 2021-06-01 | 1022 | 1022 | w237x430y567 | arusso | Finance | West-465 |

| x253y759z103 | OS 1 | Email Client 2 | 2021-12-01 | 1023 | 1023 | x253y759z103 | aalonso | Information Technology | West-393 |

| y976z753a267 | OS 2 | Email Client 2 | 2021-06-01 | 1024 | 1024 | y976z753a267 | iuduike | Sales | South-215 |

| z381a365b233 | OS 3 | Email Client 2 | 2021-12-01 | 1025 | 1025 | z381a365b233 | jhill | Sales | North-115 |

| a998b568c863 | OS 3 | Email Client 1 | 2021-12-01 | 1026 | 1026 | a998b568c863 | apatel | Human Resources | West-320 |

| b806c503d354 | OS 2 | Email Client 1 | 2021-12-01 | 1027 | 1027 | b806c503d354 | mrah | Marketing | West-246 |

| c603d749e374 | OS 1 | Email Client 1 | 2021-12-01 | 1028 | 1028 | c603d749e374 | aestrada | Human Resources | West-121 |

| d336e475f676 | OS 2 | Email Client 2 | 2021-06-01 | 1029 | 1029 | d336e475f676 | ivelasco | Finance | East-156 |

| e391f189g913 | OS 3 | Email Client 2 | 2021-12-01 | 1030 | 1030 | e391f189g913 | mabadi | Marketing | West-375 |

| f419g188h578 | OS 1 | Email Client 1 | 2021-06-01 | 1031 | 1031 | f419g188h578 | dkot | Marketing | West-408 |

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| i679j565k940 | OS 1 | Email Client 1 | 2021-03-01 | 1034 | 1034 | i679j565k940 | bsand | Human Resources | East-484 |

| j236k303l245 | OS 1 | Email Client 1 | 2021-12-01 | 1035 | 1035 | j236k303l245 | bisles | Sales | South-171 |

| k550l533m205 | OS 3 | Email Client 2 | 2021-09-01 | 1036 | 1036 | k550l533m205 | rjensen | Marketing | Central-239 |

| l693m585n528 | OS 3 | Email Client 1 | 2021-06-01 | 1037 | 1037 | l693m585n528 | dtanaka | Information Technology | West-468 |

| m873n636o225 | OS 1 | Email Client 2 | 2021-06-01 | 1038 | 1038 | m873n636o225 | btang | Human Resources | Central-260 |

| n253o917p623 | OS 1 | Email Client 2 | 2021-09-01 | 1039 | 1039 | n253o917p623 | cjackson | Sales | East-378 |

| o783p832q294 | OS 2 | Email Client 2 | 2021-09-01 | 1040 | 1040 | o783p832q294 | dtarly | Human Resources | East-237 |

| p929q222r778 | OS 3 | Email Client 1 | 2021-06-01 | 1041 | 1041 | p929q222r778 | cgriffin | Sales | North-208 |

| q175r338s833 | OS 3 | Email Client 1 | 2021-06-01 | 1042 | 1042 | q175r338s833 | acook | Human Resources | West-381 |

| NULL | NULL | NULL | NULL | NULL | 1043 | NULL | lyamamot | Information Technology | East-354 |

| s429t157u159 | OS 1 | Email Client 1 | 2021-03-01 | 1044 | 1044 | s429t157u159 | tbarnes | Finance | West-415 |

| t567u844v434 | OS 3 | Email Client 2 | 2021-12-01 | 1045 | 1045 | t567u844v434 | pwashing | Finance | East-115 |

| u429v921w138 | OS 2 | Email Client 2 | 2021-12-01 | 1046 | 1046 | u429v921w138 | daquino | Finance | West-280 |

| v109w587x644 | OS 2 | Email Client 2 | 2021-03-01 | 1047 | 1047 | v109w587x644 | cward | Finance | West-373 |

| w167x592y375 | OS 3 | Email Client 1 | 2021-12-01 | 1048 | 1048 | w167x592y375 | tmitchel | Finance | South-288 |

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| y132z930a114 | OS 2 | Email Client 2 | 2021-06-01 | 1050 | 1050 | y132z930a114 | csimmons | Finance | North-468 |

| z451a308b518 | OS 2 | Email Client 1 | 2021-03-01 | 1051 | 1051 | z451a308b518 | itraora | Marketing | Central-134 |

| a192b174c940 | OS 2 | Email Client 1 | 2021-06-01 | 1052 | 1052 | a192b174c940 | jdarosa | Marketing | East-195 |

| b979c871d361 | OS 2 | Email Client 1 | 2021-03-01 | 1053 | 1053 | b979c871d361 | nemmanue | Human Resources | Central-259 |

| c547d140e477 | OS 2 | Email Client 1 | 2021-03-01 | 1054 | 1054 | c547d140e477 | tcook | Information Technology | West-248 |

| d831e972f553 | OS 1 | Email Client 1 | 2021-09-01 | 1055 | 1055 | d831e972f553 | awilliam | Marketing | Central-256 |

| e782f537g683 | OS 1 | Email Client 1 | 2021-03-01 | 1056 | 1056 | e782f537g683 | ankala | Marketing | North-139 |

| f370g535h632 | OS 2 | Email Client 2 | 2021-09-01 | 1057 | 1057 | f370g535h632 | mscott | Sales | South-270 |

| g264h852i697 | OS 3 | Email Client 1 | 2021-03-01 | 1058 | 1058 | g264h852i697 | madebowa | Marketing | South-119 |

| h832i322j795 | OS 1 | Email Client 1 | 2021-09-01 | 1059 | 1059 | h832i322j795 | jnguyen | Marketing | South-255 |

| i446j874k974 | OS 3 | Email Client 1 | 2021-03-01 | 1060 | 1060 | i446j874k974 | tbecker | Information Technology | North-164 |

| j255k281l925 | OS 3 | Email Client 1 | 2021-06-01 | 1061 | 1061 | j255k281l925 | nhersh | Human Resources | East-163 |

| k367l639m697 | OS 1 | Email Client 1 | 2021-12-01 | 1062 | 1062 | k367l639m697 | redwards | Finance | North-180 |

| l686m140n569 | OS 3 | Email Client 2 | 2021-12-01 | 1063 | 1063 | l686m140n569 | lpope | Sales | East-226 |

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| n428o322p522 | OS 1 | Email Client 1 | 2021-12-01 | 1065 | 1065 | n428o322p522 | imoore | Human Resources | West-490 |

| o678p794q957 | OS 1 | Email Client 1 | 2021-09-01 | 1066 | 1066 | o678p794q957 | ttyrell | Sales | Central-444 |

| p288q432r721 | OS 3 | Email Client 2 | 2021-12-01 | 1067 | 1067 | p288q432r721 | lwhite | Marketing | North-277 |

| q689r187s648 | OS 2 | Email Client 1 | 2021-12-01 | 1068 | 1068 | q689r187s648 | djames | Information Technology | West-438 |

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

| s772t175u409 | OS 1 | Email Client 1 | 2021-06-01 | 1070 | 1070 | s772t175u409 | tbailey | Human Resources | North-204 |

| t244u829v723 | OS 1 | Email Client 2 | 2021-06-01 | 1071 | 1071 | t244u829v723 | zdutchma | Sales | West-348 |

| u905v920w694 | OS 1 | Email Client 1 | 2021-09-01 | 1072 | 1072 | u905v920w694 | esmith | Sales | East-421 |

| v135w241x773 | OS 2 | Email Client 2 | 2021-12-01 | 1073 | 1073 | v135w241x773 | srobinso | Marketing | Central-494 |

| w622x645y348 | OS 3 | Email Client 1 | 2021-03-01 | 1074 | 1074 | w622x645y348 | dcoleman | Information Technology | East-126 |

| x573y883z772 | OS 1 | Email Client 1 | 2021-12-01 | 1075 | 1075 | x573y883z772 | fbautist | Marketing | East-267 |

| y347z204a710 | OS 2 | Email Client 2 | 2021-12-01 | 1076 | 1076 | y347z204a710 | fgarcia | Finance | Central-270 |

| z654a154b259 | OS 2 | Email Client 2 | 2021-12-01 | 1077 | 1077 | z654a154b259 | ldavis | Human Resources | East-241 |

| a667b270c984 | OS 1 | Email Client 1 | 2021-03-01 | 1078 | 1078 | a667b270c984 | sharley | Sales | North-418 |

| b433c245d868 | OS 1 | Email Client 1 | 2021-06-01 | 1079 | 1079 | b433c245d868 | gmedina | Marketing | North-456 |

| c568d742e974 | OS 2 | Email Client 2 | 2021-09-01 | 1080 | 1080 | c568d742e974 | gmoon | Marketing | North-156 |

| d647e310f618 | OS 2 | Email Client 2 | 2021-06-01 | 1081 | 1081 | d647e310f618 | qcorbit | Finance | South-290 |

| e301f659g551 | OS 3 | Email Client 2 | 2021-12-01 | 1082 | 1082 | e301f659g551 | mjohnson | Information Technology | East-151 |

| f840g812h544 | OS 1 | Email Client 2 | 2021-12-01 | 1083 | 1083 | f840g812h544 | gkoshi | Finance | West-165 |

| g950h972i991 | OS 2 | Email Client 1 | 2021-12-01 | 1084 | 1084 | g950h972i991 | nhuynh | Human Resources | South-155 |

| h339i498j269 | OS 1 | Email Client 1 | 2021-03-01 | 1085 | 1085 | h339i498j269 | cperez | Sales | East-325 |

| i281j129k749 | OS 3 | Email Client 1 | 2021-06-01 | 1086 | 1086 | i281j129k749 | lmajumda | Sales | West-499 |

| j803k645l251 | OS 2 | Email Client 1 | 2021-12-01 | 1087 | 1087 | j803k645l251 | ibisset | Information Technology | North-230 |

| k865l965m233 | OS 3 | Email Client 2 | 2021-12-01 | 1088 | 1088 | k865l965m233 | rgosh | Marketing | East-157 |

| l358m929n154 | OS 3 | Email Client 2 | 2021-03-01 | 1089 | 1089 | l358m929n154 | jpark2 | Sales | West-251 |

| m891n748o375 | OS 2 | Email Client 2 | 2021-12-01 | 1090 | 1090 | m891n748o375 | cpatel | Information Technology | South-351 |

| n378o313p469 | OS 3 | Email Client 2 | 2021-12-01 | 1091 | 1091 | n378o313p469 | rtran | Sales | Central-230 |

| o391p779q935 | OS 1 | Email Client 2 | 2021-06-01 | 1092 | 1092 | o391p779q935 | lpark | Sales | West-227 |

| p765q957r699 | OS 2 | Email Client 1 | 2021-06-01 | 1093 | 1093 | p765q957r699 | etargary | Human Resources | Central-247 |

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| r194s893t593 | OS 1 | Email Client 2 | 2021-06-01 | 1095 | 1095 | r194s893t593 | glopez | Information Technology | East-457 |

| s375t538u194 | OS 2 | Email Client 1 | 2021-12-01 | 1096 | 1096 | s375t538u194 | kjeffers | Information Technology | East-419 |

| t363u179v368 | OS 3 | Email Client 2 | 2021-03-01 | 1097 | 1097 | t363u179v368 | jlee | Human Resources | South-254 |

| u671v146w618 | OS 1 | Email Client 2 | 2021-09-01 | 1098 | 1098 | u671v146w618 | tarchamb | Sales | North-423 |

| v283w690x104 | OS 1 | Email Client 1 | 2021-03-01 | 1099 | 1099 | v283w690x104 | anaser | Finance | West-357 |

| w326x611y598 | OS 1 | Email Client 2 | 2021-03-01 | 1100 | 1100 | w326x611y598 | mjin | Human Resources | Central-371 |

| x701y250z303 | OS 3 | Email Client 2 | 2021-03-01 | 1101 | 1101 | x701y250z303 | ichowdhu | Human Resources | East-233 |

| y943z930a241 | OS 1 | Email Client 2 | 2021-09-01 | 1102 | 1102 | y943z930a241 | kselassi | Marketing | South-378 |

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| a821b452c176 | OS 2 | Email Client 2 | 2021-12-01 | 1104 | 1104 | a821b452c176 | mreed | Information Technology | West-288 |

| b551c837d758 | OS 3 | Email Client 1 | 2021-03-01 | 1105 | 1105 | b551c837d758 | kmei | Finance | Central-232 |

| c597d792e215 | OS 2 | Email Client 1 | 2021-09-01 | 1106 | 1106 | c597d792e215 | jcohen | Marketing | South-395 |

| d168e758f876 | OS 2 | Email Client 1 | 2021-09-01 | 1107 | 1107 | d168e758f876 | akajwara | Sales | North-471 |

| e113f288g203 | OS 2 | Email Client 2 | 2021-03-01 | 1108 | 1108 | e113f288g203 | jwashing | Human Resources | North-226 |

| f229g533h679 | OS 2 | Email Client 2 | 2021-03-01 | 1109 | 1109 | f229g533h679 | nlocklea | Sales | East-196 |

| g567h376i314 | OS 3 | Email Client 1 | 2021-12-01 | 1110 | 1110 | g567h376i314 | pchaudhu | Sales | Central-428 |

| h835i179j862 | OS 2 | Email Client 2 | 2021-06-01 | 1111 | 1111 | h835i179j862 | jlee | Sales | West-309 |

| i772j807k175 | OS 2 | Email Client 1 | 2021-12-01 | 1112 | 1112 | i772j807k175 | ccruz | Information Technology | South-298 |

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| l552m734n118 | OS 2 | Email Client 2 | 2021-03-01 | 1115 | 1115 | l552m734n118 | esmith2 | Information Technology | Central-204 |

| m272n572o874 | OS 3 | Email Client 2 | 2021-09-01 | 1116 | 1116 | m272n572o874 | nzhao | Sales | South-100 |

| n683o758p820 | OS 2 | Email Client 1 | 2021-12-01 | 1117 | 1117 | n683o758p820 | dahmad | Sales | West-405 |

| o305p208q337 | OS 3 | Email Client 2 | 2021-03-01 | 1118 | 1118 | o305p208q337 | jpark3 | Sales | South-329 |

| p164q780r999 | OS 3 | Email Client 2 | 2021-12-01 | 1119 | 1119 | p164q780r999 | omubarak | Sales | West-409 |

| q912r119s313 | OS 2 | Email Client 1 | 2021-06-01 | 1120 | 1120 | q912r119s313 | rbradsha | Marketing | Central-200 |

| r628s557t397 | OS 1 | Email Client 1 | 2021-12-01 | 1121 | 1121 | r628s557t397 | mrojas | Sales | East-288 |

| s103t952u851 | OS 2 | Email Client 2 | 2021-03-01 | 1122 | 1122 | s103t952u851 | btorres | Finance | West-319 |

| t479u468v151 | OS 1 | Email Client 1 | 2021-06-01 | 1123 | 1123 | t479u468v151 | ekonya | Human Resources | South-445 |

| u340v931w764 | OS 2 | Email Client 2 | 2021-09-01 | 1124 | 1124 | u340v931w764 | claw | Human Resources | Central-172 |

| v491w553x421 | OS 2 | Email Client 2 | 2021-03-01 | 1125 | 1125 | v491w553x421 | mrodgers | Marketing | South-490 |

| w190x708y760 | OS 3 | Email Client 2 | 2021-03-01 | 1126 | 1126 | w190x708y760 | lmiller | Information Technology | West-296 |

| x127y181z890 | OS 2 | Email Client 1 | 2021-06-01 | 1127 | 1127 | x127y181z890 | jterranc | Information Technology | Central-256 |

| y103z561a649 | OS 2 | Email Client 1 | 2021-03-01 | 1128 | 1128 | y103z561a649 | mpirato | Human Resources | West-205 |

| z566a147b347 | OS 1 | Email Client 1 | 2021-12-01 | 1129 | 1129 | z566a147b347 | plopez | Marketing | West-326 |

| a317b635c465 | OS 1 | Email Client 2 | 2021-03-01 | 1130 | 1130 | a317b635c465 | tsnow | Sales | Central-451 |

| b265c937d713 | OS 2 | Email Client 1 | 2021-09-01 | 1131 | 1131 | b265c937d713 | asierra | Information Technology | South-159 |

| c150d982e144 | OS 2 | Email Client 2 | 2021-06-01 | 1132 | 1132 | c150d982e144 | creddy | Human Resources | Central-210 |

| d693e351f221 | OS 2 | Email Client 2 | 2021-09-01 | 1133 | 1133 | d693e351f221 | pfrey | Marketing | Central-164 |

| e395f616g566 | OS 2 | Email Client 2 | 2021-03-01 | 1134 | 1134 | e395f616g566 | akhatri | Human Resources | West-159 |

| f934g229h883 | OS 2 | Email Client 2 | 2021-03-01 | 1135 | 1135 | f934g229h883 | khamamot | Information Technology | East-186 |

| g299h520i457 | OS 2 | Email Client 1 | 2021-09-01 | 1136 | 1136 | g299h520i457 | jhawes | Finance | West-416 |

| h165i539j638 | OS 3 | Email Client 1 | 2021-03-01 | 1137 | 1137 | h165i539j638 | mwood | Human Resources | South-166 |

| i671j355k725 | OS 2 | Email Client 2 | 2021-03-01 | 1138 | 1138 | i671j355k725 | sromero | Finance | South-329 |

| j637k986l199 | OS 2 | Email Client 1 | 2021-06-01 | 1139 | 1139 | j637k986l199 | emorton | Human Resources | North-300 |

| k982l199m839 | OS 2 | Email Client 2 | 2021-03-01 | 1140 | 1140 | k982l199m839 | apatel2 | Human Resources | East-385 |

| l282m821n717 | OS 1 | Email Client 1 | 2021-12-01 | 1141 | 1141 | l282m821n717 | cochuba | Human Resources | South-282 |

| m674n127o823 | OS 3 | Email Client 2 | 2021-03-01 | 1142 | 1142 | m674n127o823 | lsilva | Finance | East-440 |

| n704o364p471 | OS 2 | Email Client 2 | 2021-09-01 | 1143 | 1143 | n704o364p471 | sstark | Information Technology | East-282 |

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| q228r135s755 | OS 1 | Email Client 2 | 2021-09-01 | 1146 | 1146 | q228r135s755 | ulemere | Human Resources | Central-171 |

| r454s225t299 | OS 2 | Email Client 2 | 2021-12-01 | 1147 | 1147 | r454s225t299 | tvega | Finance | West-177 |

| s328t505u907 | OS 3 | Email Client 2 | 2021-12-01 | 1148 | 1148 | s328t505u907 | dharvey | Finance | South-181 |

| t709u492v884 | OS 1 | Email Client 2 | 2021-06-01 | 1149 | 1149 | t709u492v884 | klim | Information Technology | South-411 |

| u554v512w139 | OS 1 | Email Client 1 | 2021-03-01 | 1150 | 1150 | u554v512w139 | lmarin | Marketing | Central-364 |

| v852w513x954 | OS 2 | Email Client 1 | 2021-12-01 | 1151 | 1151 | v852w513x954 | sshah | Human Resources | North-272 |

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| x677y330z296 | OS 1 | Email Client 2 | 2021-06-01 | 1153 | 1153 | x677y330z296 | ncardena | Marketing | Central-363 |

| y765z123a548 | OS 2 | Email Client 2 | 2021-06-01 | 1154 | 1154 | y765z123a548 | obryand | Marketing | North-182 |

| z942a966b589 | OS 3 | Email Client 1 | 2021-09-01 | 1155 | 1155 | z942a966b589 | zjones | Human Resources | East-122 |

| a184b775c707 | OS 1 | Email Client 1 | 2021-09-01 | 1156 | 1156 | a184b775c707 | dellery | Marketing | East-417 |

| b264c773d977 | OS 2 | Email Client 2 | 2021-03-01 | 1157 | 1157 | b264c773d977 | lstein | Human Resources | Central-343 |

| c406d877e950 | OS 2 | Email Client 1 | 2021-06-01 | 1158 | 1158 | c406d877e950 | bnaser | Human Resources | Central-243 |

| d881e710f732 | OS 3 | Email Client 2 | 2021-03-01 | 1159 | 1159 | d881e710f732 | jshen | Finance | East-193 |

| e127f591g924 | OS 3 | Email Client 2 | 2021-12-01 | 1160 | 1160 | e127f591g924 | spham | Marketing | West-353 |

| f951g408h866 | OS 1 | Email Client 2 | 2021-03-01 | 1161 | 1161 | f951g408h866 | jjenkins | Information Technology | East-433 |

| g953h643i618 | OS 2 | Email Client 2 | 2021-06-01 | 1162 | 1162 | g953h643i618 | iortega | Information Technology | West-381 |

| h679i515j339 | OS 3 | Email Client 1 | 2021-09-01 | 1163 | 1163 | h679i515j339 | cwilliam | Marketing | East-216 |

| i682j513k442 | OS 3 | Email Client 1 | 2021-03-01 | 1164 | 1164 | i682j513k442 | fsmeltz | Finance | North-163 |

| j713k893l832 | OS 2 | Email Client 1 | 2021-03-01 | 1165 | 1165 | j713k893l832 | nwords | Marketing | South-128 |

| k495l234m708 | OS 1 | Email Client 2 | 2021-09-01 | 1166 | 1166 | k495l234m708 | nyoung | Marketing | Central-397 |

| l738m922n515 | OS 1 | Email Client 1 | 2021-03-01 | 1167 | 1167 | l738m922n515 | tblackwe | Marketing | North-443 |

| m778n920o426 | OS 2 | Email Client 2 | 2021-06-01 | 1168 | 1168 | m778n920o426 | jharris | Information Technology | South-305 |

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

| o156p302q359 | OS 2 | Email Client 1 | 2021-03-01 | 1170 | 1170 | o156p302q359 | lalvarez | Human Resources | North-278 |

| p834q238r776 | OS 3 | Email Client 2 | 2021-03-01 | 1171 | 1171 | p834q238r776 | plopez2 | Information Technology | Central-496 |

| q372r826s628 | OS 2 | Email Client 1 | 2021-09-01 | 1172 | 1172 | q372r826s628 | akhan | Marketing | Central-360 |

| r537s849t690 | OS 1 | Email Client 2 | 2021-09-01 | 1173 | 1173 | r537s849t690 | ialcazar | Marketing | South-429 |

| s371t911u987 | OS 1 | Email Client 2 | 2021-06-01 | 1174 | 1174 | s371t911u987 | eortiz | Finance | North-428 |

| t959u687v394 | OS 2 | Email Client 2 | 2021-06-01 | 1175 | 1175 | t959u687v394 | jclark2 | Finance | North-194 |

| u849v569w521 | OS 2 | Email Client 1 | 2021-06-01 | 1176 | 1176 | u849v569w521 | nliu | Sales | West-220 |

| v691w183x928 | OS 1 | Email Client 2 | 2021-09-01 | 1177 | 1177 | v691w183x928 | aezra | Human Resources | East-190 |

| w986x187y885 | OS 3 | Email Client 2 | 2021-12-01 | 1178 | 1178 | w986x187y885 | nlannist | Marketing | North-196 |

| x174y934z376 | OS 1 | Email Client 2 | 2021-06-01 | 1179 | 1179 | x174y934z376 | asalas | Human Resources | North-445 |

| y131z211a578 | OS 2 | Email Client 1 | 2021-03-01 | 1180 | 1180 | y131z211a578 | medwards | Human Resources | Central-340 |

| z803a233b718 | OS 1 | Email Client 2 | 2021-12-01 | 1181 | 1181 | z803a233b718 | sessa | Finance | South-207 |

| a305b818c708 | OS 3 | Email Client 2 | 2021-06-01 | 1182 | 1182 | a305b818c708 | mmora | Information Technology | Central-250 |

| b566c710d544 | OS 1 | Email Client 1 | 2021-06-01 | 1183 | 1183 | b566c710d544 | lquraish | Human Resources | East-400 |

| c986d200e170 | OS 2 | Email Client 2 | 2021-09-01 | 1184 | 1184 | c986d200e170 | ptsosie | Human Resources | Central-247 |

| d790e839f461 | OS 1 | Email Client 1 | 2021-06-01 | 1185 | 1185 | d790e839f461 | revens | Sales | North-330 |

| e281f433g404 | OS 1 | Email Client 2 | 2021-12-01 | 1186 | 1186 | e281f433g404 | sacosta | Sales | North-460 |

| f963g637h851 | OS 1 | Email Client 1 | 2021-06-01 | 1187 | 1187 | f963g637h851 | bbode | Finance | East-351 |

| g164h566i795 | OS 1 | Email Client 1 | 2021-09-01 | 1188 | 1188 | g164h566i795 | noshiro | Finance | West-252 |

| h784i120j837 | OS 3 | Email Client 2 | 2021-12-01 | 1189 | 1189 | h784i120j837 | slefkowi | Human Resources | West-342 |

| NULL | NULL | NULL | NULL | NULL | 1190 | NULL | kcarter | Marketing | Central-270 |

| NULL | NULL | NULL | NULL | NULL | 1191 | NULL | shakimi | Marketing | Central-366 |

| k570l183m949 | OS 3 | Email Client 1 | 2021-12-01 | 1192 | 1192 | k570l183m949 | rlaghari | Information Technology | East-138 |

| l186m618n319 | OS 1 | Email Client 2 | 2021-12-01 | 1193 | 1193 | l186m618n319 | esantiag | Information Technology | Central-300 |

| m340n287o441 | OS 2 | Email Client 2 | 2021-09-01 | 1194 | 1194 | m340n287o441 | zwarren | Human Resources | West-212 |

| n516o853p957 | OS 1 | Email Client 1 | 2021-09-01 | 1195 | 1195 | n516o853p957 | orainier | Finance | East-346 |

| o225p357q829 | OS 3 | Email Client 1 | 2021-12-01 | 1196 | 1196 | o225p357q829 | sshah2 | Information Technology | South-385 |

| p791q114r509 | OS 2 | Email Client 1 | 2021-09-01 | 1197 | 1197 | p791q114r509 | aabara | Information Technology | North-159 |

| q308r573s459 | OS 3 | Email Client 1 | 2021-03-01 | 1198 | 1198 | q308r573s459 | jmartine | Marketing | South-117 |

| r520s571t459 | OS 2 | Email Client 2 | 2021-03-01 | 1199 | 1199 | r520s571t459 | areyes | Human Resources | East-100 |

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

200 rows in set (0.001 sec)

MariaDB [organization]>

**Task 3. Retrieve login attempt data**

To continue investigating the security incident, you must retrieve the information on all employees who have made login attempts. To achieve this, you’ll perform an inner join on the employees and log\_in\_attempts tables, linking them on the common username column.

* Run the following SQL query to perform an inner join on the employees and log\_in\_attempts tables. Replace X with the name of the right table. Then replace Y and Z with the name of the column that connects the two tables:

SELECT \*

FROM employees

INNER JOIN X ON Y = Z;

Copied!

***Note:****You must specify the table name with the column name (table.column) when joining the tables.*

How many records are returned by this inner join?

210

175

145

check200

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

You have completed this task and run a query that returns the information on all employees who have made login attempts!

Retrieve login attempt data

*You have completed this task and run a query that returns the information on all employees who have made login attempts!*

MariaDB [organization]> SELECT \*

-> FROM employees

-> INNER JOIN log\_in\_attempts ON username = username ;

ERROR 1052 (23000): Column 'username' in on clause is ambiguous

MariaDB [organization]> SELECT \* FROM employees INNER JOIN log\_in\_attempts ON username = username;

ERROR 1052 (23000): Column 'username' in on clause is ambiguous

MariaDB [organization]> SELECT \* FROM employees INNER JOIN log\_in\_attempts ON username = log\_in\_attempts.username;

ERROR 1052 (23000): Column 'username' in on clause is ambiguous

MariaDB [organization]> SELECT \* FROM employees INNER JOIN log\_in\_attempts ON employees.username = log\_in\_attempts.username;

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

| employee\_id | device\_id | username | department | office | event\_id | username | login\_date | login\_time | country | ip\_address | success |

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

| 1032 | g773h303i639 | jrafael | Information Technology | Central-309 | 1 | jrafael | 2022-05-09 | 04:56:27 | CAN | 192.168.243.140 | 0 |

| 1026 | a998b568c863 | apatel | Human Resources | West-320 | 2 | apatel | 2022-05-10 | 20:27:27 | CAN | 192.168.205.12 | 0 |

| 1031 | f419g188h578 | dkot | Marketing | West-408 | 3 | dkot | 2022-05-09 | 06:47:41 | USA | 192.168.151.162 | 0 |

| 1031 | f419g188h578 | dkot | Marketing | West-408 | 4 | dkot | 2022-05-08 | 02:00:39 | USA | 192.168.178.71 | 0 |

| 1032 | g773h303i639 | jrafael | Information Technology | Central-309 | 5 | jrafael | 2022-05-11 | 03:05:59 | CANADA | 192.168.86.232 | 0 |

| 1020 | u899v381w363 | arutley | Marketing | South-351 | 6 | arutley | 2022-05-12 | 17:00:59 | MEXICO | 192.168.3.24 | 0 |

| 1004 | e218f877g788 | eraab | Human Resources | South-127 | 7 | eraab | 2022-05-11 | 01:45:14 | CAN | 192.168.170.243 | 0 |

| 1035 | j236k303l245 | bisles | Sales | South-171 | 8 | bisles | 2022-05-08 | 01:30:17 | US | 192.168.119.173 | 0 |

| 1033 | NULL | yappiah | Information Technology | West-387 | 9 | yappiah | 2022-05-11 | 13:47:29 | MEX | 192.168.59.136 | 0 |

| 1032 | g773h303i639 | jrafael | Information Technology | Central-309 | 10 | jrafael | 2022-05-12 | 09:33:19 | CANADA | 192.168.228.221 | 0 |

| 1003 | d394e816f943 | sgilmore | Finance | South-153 | 11 | sgilmore | 2022-05-11 | 10:16:29 | CANADA | 192.168.140.81 | 0 |

| 1031 | f419g188h578 | dkot | Marketing | West-408 | 12 | dkot | 2022-05-08 | 09:11:34 | USA | 192.168.100.158 | 0 |

| 1027 | b806c503d354 | mrah | Marketing | West-246 | 13 | mrah | 2022-05-11 | 09:29:34 | USA | 192.168.246.135 | 0 |

| 1016 | q793r736s288 | sbaelish | Human Resources | North-229 | 14 | sbaelish | 2022-05-10 | 10:20:18 | US | 192.168.16.99 | 0 |

| 1043 | NULL | lyamamot | Information Technology | East-354 | 15 | lyamamot | 2022-05-09 | 17:17:26 | USA | 192.168.183.51 | 0 |

| 1019 | t815u205v470 | mcouliba | Information Technology | North-108 | 16 | mcouliba | 2022-05-11 | 06:44:22 | CAN | 192.168.172.189 | 0 |

| 1045 | t567u844v434 | pwashing | Finance | East-115 | 17 | pwashing | 2022-05-11 | 02:33:02 | USA | 192.168.81.89 | 0 |

| 1045 | t567u844v434 | pwashing | Finance | East-115 | 18 | pwashing | 2022-05-11 | 19:28:50 | US | 192.168.66.142 | 0 |

| 1025 | z381a365b233 | jhill | Sales | North-115 | 19 | jhill | 2022-05-12 | 13:09:04 | US | 192.168.142.245 | 0 |

| 1002 | c116d593e558 | tshah | Human Resources | North-434 | 20 | tshah | 2022-05-12 | 18:56:36 | MEXICO | 192.168.109.50 | 0 |

| 1024 | y976z753a267 | iuduike | Sales | South-215 | 21 | iuduike | 2022-05-11 | 17:50:00 | US | 192.168.131.147 | 0 |

| 1036 | k550l533m205 | rjensen | Marketing | Central-239 | 22 | rjensen | 2022-05-11 | 00:59:26 | MEX | 192.168.213.128 | 0 |

| 1033 | NULL | yappiah | Information Technology | West-387 | 23 | yappiah | 2022-05-10 | 18:11:53 | MEXICO | 192.168.200.48 | 0 |

| 1022 | w237x430y567 | arusso | Finance | West-465 | 24 | arusso | 2022-05-09 | 06:49:39 | MEXICO | 192.168.171.192 | 0 |

| 1016 | q793r736s288 | sbaelish | Human Resources | North-229 | 25 | sbaelish | 2022-05-09 | 07:04:02 | US | 192.168.33.137 | 0 |

| 1026 | a998b568c863 | apatel | Human Resources | West-320 | 26 | apatel | 2022-05-08 | 17:27:00 | CANADA | 192.168.123.105 | 0 |

| 1023 | x253y759z103 | aalonso | Information Technology | West-393 | 27 | aalonso | 2022-05-10 | 01:55:35 | MEX | 192.168.103.210 | 0 |

| 1028 | c603d749e374 | aestrada | Human Resources | West-121 | 28 | aestrada | 2022-05-09 | 19:28:12 | MEXICO | 192.168.27.57 | 0 |

| 1035 | j236k303l245 | bisles | Sales | South-171 | 29 | bisles | 2022-05-11 | 01:21:22 | US | 192.168.85.186 | 0 |

| 1033 | NULL | yappiah | Information Technology | West-387 | 30 | yappiah | 2022-05-09 | 03:22:22 | MEX | 192.168.124.48 | 0 |

| 1042 | q175r338s833 | acook | Human Resources | West-381 | 31 | acook | 2022-05-12 | 17:36:45 | CANADA | 192.168.58.232 | 0 |

| 1042 | q175r338s833 | acook | Human Resources | West-381 | 32 | acook | 2022-05-09 | 02:52:02 | CANADA | 192.168.142.239 | 0 |

| 1013 | n205o559p243 | zbernal | Information Technology | South-229 | 33 | zbernal | 2022-05-11 | 02:52:10 | US | 192.168.72.59 | 0 |

| 1011 | l748m120n401 | drosas | Sales | South-292 | 34 | drosas | 2022-05-11 | 21:02:04 | US | 192.168.45.93 | 0 |

| 1002 | c116d593e558 | tshah | Human Resources | North-434 | 35 | tshah | 2022-05-10 | 15:26:08 | MEX | 192.168.92.147 | 0 |

| 1014 | NULL | asundara | Information Technology | West-219 | 36 | asundara | 2022-05-08 | 09:00:42 | US | 192.168.78.151 | 0 |

| 1004 | e218f877g788 | eraab | Human Resources | South-127 | 37 | eraab | 2022-05-10 | 06:03:41 | CANADA | 192.168.152.148 | 0 |

| 1016 | q793r736s288 | sbaelish | Human Resources | North-229 | 38 | sbaelish | 2022-05-09 | 14:40:01 | USA | 192.168.60.42 | 0 |

| 1033 | NULL | yappiah | Information Technology | West-387 | 39 | yappiah | 2022-05-09 | 07:56:40 | MEXICO | 192.168.57.115 | 0 |

| 1023 | x253y759z103 | aalonso | Information Technology | West-393 | 40 | aalonso | 2022-05-12 | 15:15:46 | MEX | 192.168.174.186 | 0 |

| 1026 | a998b568c863 | apatel | Human Resources | West-320 | 41 | apatel | 2022-05-10 | 17:39:42 | CANADA | 192.168.46.207 | 0 |

| 1041 | p929q222r778 | cgriffin | Sales | North-208 | 42 | cgriffin | 2022-05-09 | 23:04:05 | US | 192.168.4.157 | 0 |

| 1019 | t815u205v470 | mcouliba | Information Technology | North-108 | 43 | mcouliba | 2022-05-08 | 02:35:34 | CANADA | 192.168.16.208 | 0 |

| 1046 | u429v921w138 | daquino | Finance | West-280 | 44 | daquino | 2022-05-08 | 07:02:35 | CANADA | 192.168.168.144 | 0 |

| 1037 | l693m585n528 | dtanaka | Information Technology | West-468 | 45 | dtanaka | 2022-05-11 | 10:28:54 | US | 192.168.223.157 | 0 |

| 1004 | e218f877g788 | eraab | Human Resources | South-127 | 46 | eraab | 2022-05-11 | 11:29:27 | CAN | 192.168.24.12 | 0 |

| 1031 | f419g188h578 | dkot | Marketing | West-408 | 47 | dkot | 2022-05-08 | 05:06:45 | US | 192.168.233.24 | 0 |

| 1014 | NULL | asundara | Information Technology | West-219 | 48 | asundara | 2022-05-11 | 03:18:45 | USA | 192.168.72.10 | 0 |

| 1014 | NULL | asundara | Information Technology | West-219 | 49 | asundara | 2022-05-08 | 14:00:01 | US | 192.168.173.213 | 0 |

| 1017 | r550s824t230 | jclark | Finance | North-188 | 50 | jclark | 2022-05-10 | 10:48:02 | CANADA | 192.168.174.117 | 0 |

| 1032 | g773h303i639 | jrafael | Information Technology | Central-309 | 51 | jrafael | 2022-05-10 | 22:40:01 | CANADA | 192.168.148.115 | 0 |

| 1039 | n253o917p623 | cjackson | Sales | East-378 | 52 | cjackson | 2022-05-10 | 22:07:07 | CAN | 192.168.58.57 | 0 |

| 1012 | m756n668o146 | nmason | Information Technology | North-160 | 53 | nmason | 2022-05-08 | 11:51:38 | CAN | 192.168.133.188 | 0 |

| 1049 | NULL | jreckley | Finance | Central-295 | 54 | jreckley | 2022-05-10 | 19:31:19 | MEXICO | 192.168.167.152 | 0 |

| 1010 | k242l212m542 | jlansky | Finance | South-109 | 55 | jlansky | 2022-05-11 | 05:15:34 | US | 192.168.6.170 | 0 |

| 1042 | q175r338s833 | acook | Human Resources | West-381 | 56 | acook | 2022-05-08 | 04:56:30 | CAN | 192.168.209.130 | 0 |

| 1014 | NULL | asundara | Information Technology | West-219 | 57 | asundara | 2022-05-12 | 21:13:02 | US | 192.168.211.201 | 0 |

| 1029 | d336e475f676 | ivelasco | Finance | East-156 | 58 | ivelasco | 2022-05-09 | 17:20:54 | CAN | 192.168.57.162 | 0 |

| 1036 | k550l533m205 | rjensen | Marketing | Central-239 | 59 | rjensen | 2022-05-12 | 04:52:08 | MEX | 192.168.54.140 | 0 |

| 1042 | q175r338s833 | acook | Human Resources | West-381 | 60 | acook | 2022-05-11 | 21:46:00 | CAN | 192.168.54.45 | 0 |

| 1037 | l693m585n528 | dtanaka | Information Technology | West-468 | 61 | dtanaka | 2022-05-09 | 09:45:18 | USA | 192.168.98.221 | 0 |

| 1008 | i858j583k571 | abernard | Finance | South-170 | 62 | abernard | 2022-05-10 | 10:19:57 | MEXICO | 192.168.156.224 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 63 | tmitchel | 2022-05-11 | 14:13:41 | MEXICO | 192.168.110.131 | 0 |

| 1026 | a998b568c863 | apatel | Human Resources | West-320 | 64 | apatel | 2022-05-10 | 22:00:09 | CANADA | 192.168.172.71 | 0 |

| 1023 | x253y759z103 | aalonso | Information Technology | West-393 | 65 | aalonso | 2022-05-09 | 23:42:12 | MEX | 192.168.52.37 | 0 |

| 1028 | c603d749e374 | aestrada | Human Resources | West-121 | 66 | aestrada | 2022-05-08 | 21:58:32 | MEX | 192.168.67.223 | 0 |

| 1008 | i858j583k571 | abernard | Finance | South-170 | 67 | abernard | 2022-05-09 | 11:53:41 | MEX | 192.168.118.29 | 0 |

| 1027 | b806c503d354 | mrah | Marketing | West-246 | 68 | mrah | 2022-05-08 | 17:16:13 | US | 192.168.42.248 | 0 |

| 1007 | h174i497j413 | wjaffrey | Finance | North-406 | 69 | wjaffrey | 2022-05-11 | 19:55:15 | USA | 192.168.100.17 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 70 | tmitchel | 2022-05-09 | 10:55:17 | MEXICO | 192.168.87.199 | 0 |

| 1019 | t815u205v470 | mcouliba | Information Technology | North-108 | 71 | mcouliba | 2022-05-09 | 06:57:42 | CAN | 192.168.55.169 | 0 |

| 1006 | g329h357i597 | alevitsk | Information Technology | East-320 | 72 | alevitsk | 2022-05-08 | 12:09:10 | CANADA | 192.168.139.176 | 0 |

| 1013 | n205o559p243 | zbernal | Information Technology | South-229 | 73 | zbernal | 2022-05-10 | 17:46:45 | USA | 192.168.80.46 | 0 |

| 1012 | m756n668o146 | nmason | Information Technology | North-160 | 74 | nmason | 2022-05-11 | 15:55:48 | CAN | 192.168.162.2 | 0 |

| 1013 | n205o559p243 | zbernal | Information Technology | South-229 | 75 | zbernal | 2022-05-12 | 04:14:35 | US | 192.168.188.63 | 0 |

| 1001 | b239c825d303 | bmoreno | Marketing | Central-276 | 76 | bmoreno | 2022-05-10 | 10:53:55 | CAN | 192.168.61.200 | 0 |

| 1007 | h174i497j413 | wjaffrey | Finance | North-406 | 77 | wjaffrey | 2022-05-12 | 08:37:59 | US | 192.168.106.183 | 0 |

| 1021 | v200w121x977 | smartell | Information Technology | South-138 | 78 | smartell | 2022-05-10 | 05:55:53 | MEX | 192.168.41.88 | 0 |

| 1008 | i858j583k571 | abernard | Finance | South-170 | 79 | abernard | 2022-05-09 | 11:41:15 | MEX | 192.168.158.170 | 0 |

| 1039 | n253o917p623 | cjackson | Sales | East-378 | 80 | cjackson | 2022-05-08 | 02:18:10 | CANADA | 192.168.33.140 | 0 |

| 1023 | x253y759z103 | aalonso | Information Technology | West-393 | 81 | aalonso | 2022-05-11 | 12:50:38 | MEX | 192.168.152.43 | 0 |

| 1008 | i858j583k571 | abernard | Finance | South-170 | 82 | abernard | 2022-05-12 | 23:38:46 | MEX | 192.168.234.49 | 0 |

| 1009 | NULL | lrodriqu | Sales | South-134 | 83 | lrodriqu | 2022-05-08 | 08:10:23 | USA | 192.168.67.69 | 0 |

| 1032 | g773h303i639 | jrafael | Information Technology | Central-309 | 84 | jrafael | 2022-05-11 | 09:26:17 | CAN | 192.168.243.203 | 0 |

| 1040 | o783p832q294 | dtarly | Human Resources | East-237 | 85 | dtarly | 2022-05-11 | 17:35:28 | MEX | 192.168.254.75 | 0 |

| 1037 | l693m585n528 | dtanaka | Information Technology | West-468 | 86 | dtanaka | 2022-05-10 | 10:22:20 | USA | 192.168.197.135 | 0 |

| 1026 | a998b568c863 | apatel | Human Resources | West-320 | 87 | apatel | 2022-05-08 | 22:38:31 | CANADA | 192.168.132.153 | 0 |

| 1028 | c603d749e374 | aestrada | Human Resources | West-121 | 88 | aestrada | 2022-05-12 | 11:21:50 | MEXICO | 192.168.153.77 | 0 |

| 1031 | f419g188h578 | dkot | Marketing | West-408 | 89 | dkot | 2022-05-12 | 10:52:00 | USA | 192.168.128.75 | 0 |

| 1005 | f551g340h864 | gesparza | Human Resources | South-366 | 90 | gesparza | 2022-05-09 | 00:49:05 | CANADA | 192.168.87.201 | 0 |

| 1025 | z381a365b233 | jhill | Sales | North-115 | 91 | jhill | 2022-05-11 | 17:46:47 | US | 192.168.172.74 | 0 |

| 1045 | t567u844v434 | pwashing | Finance | East-115 | 92 | pwashing | 2022-05-08 | 00:36:12 | US | 192.168.247.219 | 0 |

| 1049 | NULL | jreckley | Finance | Central-295 | 93 | jreckley | 2022-05-12 | 04:31:20 | MEX | 192.168.108.24 | 0 |

| 1044 | s429t157u159 | tbarnes | Finance | West-415 | 94 | tbarnes | 2022-05-10 | 03:37:10 | MEX | 192.168.74.202 | 0 |

| 1040 | o783p832q294 | dtarly | Human Resources | East-237 | 95 | dtarly | 2022-05-12 | 11:23:42 | MEX | 192.168.203.198 | 0 |

| 1029 | d336e475f676 | ivelasco | Finance | East-156 | 96 | ivelasco | 2022-05-09 | 22:36:36 | CAN | 192.168.84.194 | 0 |

| 1049 | NULL | jreckley | Finance | Central-295 | 97 | jreckley | 2022-05-09 | 02:49:23 | MEXICO | 192.168.32.231 | 0 |

| 1005 | f551g340h864 | gesparza | Human Resources | South-366 | 98 | gesparza | 2022-05-11 | 06:30:14 | CANADA | 192.168.148.80 | 0 |

| 1019 | t815u205v470 | mcouliba | Information Technology | North-108 | 99 | mcouliba | 2022-05-12 | 11:54:14 | CANADA | 192.168.218.160 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 100 | tmitchel | 2022-05-12 | 16:02:03 | MEXICO | 192.168.97.225 | 0 |

| 1016 | q793r736s288 | sbaelish | Human Resources | North-229 | 101 | sbaelish | 2022-05-08 | 12:01:22 | US | 192.168.145.158 | 0 |

| 1049 | NULL | jreckley | Finance | Central-295 | 102 | jreckley | 2022-05-09 | 16:51:44 | MEX | 192.168.108.13 | 0 |

| 1025 | z381a365b233 | jhill | Sales | North-115 | 103 | jhill | 2022-05-11 | 09:10:54 | US | 192.168.60.153 | 0 |

| 1014 | NULL | asundara | Information Technology | West-219 | 104 | asundara | 2022-05-11 | 18:38:07 | US | 192.168.96.200 | 0 |

| 1039 | n253o917p623 | cjackson | Sales | East-378 | 105 | cjackson | 2022-05-12 | 19:36:42 | CAN | 192.168.247.153 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 106 | tmitchel | 2022-05-12 | 06:15:41 | MEXICO | 192.168.3.252 | 0 |

| 1035 | j236k303l245 | bisles | Sales | South-171 | 107 | bisles | 2022-05-12 | 20:25:57 | USA | 192.168.116.187 | 0 |

| 1046 | u429v921w138 | daquino | Finance | West-280 | 108 | daquino | 2022-05-09 | 21:30:48 | CANADA | 192.168.15.110 | 0 |

| 1019 | t815u205v470 | mcouliba | Information Technology | North-108 | 109 | mcouliba | 2022-05-10 | 04:43:15 | CANADA | 192.168.39.246 | 0 |

| 1030 | e391f189g913 | mabadi | Marketing | West-375 | 110 | mabadi | 2022-05-09 | 00:01:54 | USA | 192.168.90.124 | 0 |

| 1028 | c603d749e374 | aestrada | Human Resources | West-121 | 111 | aestrada | 2022-05-10 | 22:00:26 | MEXICO | 192.168.76.27 | 0 |

| 1036 | k550l533m205 | rjensen | Marketing | Central-239 | 112 | rjensen | 2022-05-09 | 09:22:05 | MEX | 192.168.69.116 | 0 |

| 1005 | f551g340h864 | gesparza | Human Resources | South-366 | 113 | gesparza | 2022-05-10 | 00:40:00 | CAN | 192.168.64.133 | 0 |

| 1021 | v200w121x977 | smartell | Information Technology | South-138 | 114 | smartell | 2022-05-10 | 10:51:22 | MEXICO | 192.168.191.124 | 0 |

| 1029 | d336e475f676 | ivelasco | Finance | East-156 | 115 | ivelasco | 2022-05-10 | 23:06:01 | CAN | 192.168.154.1 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 116 | tmitchel | 2022-05-10 | 20:33:27 | MEXICO | 192.168.119.26 | 0 |

| 1034 | i679j565k940 | bsand | Human Resources | East-484 | 117 | bsand | 2022-05-08 | 00:19:11 | USA | 192.168.197.187 | 0 |

| 1021 | v200w121x977 | smartell | Information Technology | South-138 | 118 | smartell | 2022-05-12 | 23:21:31 | MEXICO | 192.168.173.196 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 119 | tmitchel | 2022-05-11 | 23:07:13 | MEXICO | 192.168.110.175 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 120 | tmitchel | 2022-05-09 | 02:58:17 | MEXICO | 192.168.134.62 | 0 |

| 1038 | m873n636o225 | btang | Human Resources | Central-260 | 121 | btang | 2022-05-10 | 22:00:36 | US | 192.168.80.143 | 0 |

| 1033 | NULL | yappiah | Information Technology | West-387 | 122 | yappiah | 2022-05-11 | 08:27:25 | MEX | 192.168.50.45 | 0 |

| 1001 | b239c825d303 | bmoreno | Marketing | Central-276 | 123 | bmoreno | 2022-05-10 | 04:43:30 | CANADA | 192.168.98.2 | 0 |

| 1014 | NULL | asundara | Information Technology | West-219 | 124 | asundara | 2022-05-12 | 10:51:21 | USA | 192.168.136.29 | 0 |

| 1035 | j236k303l245 | bisles | Sales | South-171 | 125 | bisles | 2022-05-11 | 08:36:19 | US | 192.168.74.9 | 0 |

| 1032 | g773h303i639 | jrafael | Information Technology | Central-309 | 126 | jrafael | 2022-05-12 | 18:47:52 | CAN | 192.168.22.16 | 0 |

| 1018 | s310t540u653 | abellmas | Finance | North-403 | 127 | abellmas | 2022-05-09 | 21:20:51 | CANADA | 192.168.70.122 | 0 |

| 1017 | r550s824t230 | jclark | Finance | North-188 | 128 | jclark | 2022-05-09 | 10:45:59 | CANADA | 192.168.122.169 | 0 |

| 1011 | l748m120n401 | drosas | Sales | South-292 | 129 | drosas | 2022-05-12 | 15:39:40 | USA | 192.168.152.200 | 0 |

| 1027 | b806c503d354 | mrah | Marketing | West-246 | 130 | mrah | 2022-05-11 | 02:54:21 | USA | 192.168.102.147 | 0 |

| 1035 | j236k303l245 | bisles | Sales | South-171 | 131 | bisles | 2022-05-09 | 20:03:55 | US | 192.168.113.171 | 0 |

| 1036 | k550l533m205 | rjensen | Marketing | Central-239 | 132 | rjensen | 2022-05-12 | 23:26:03 | MEX | 192.168.9.166 | 0 |

| 1014 | NULL | asundara | Information Technology | West-219 | 133 | asundara | 2022-05-12 | 05:57:04 | USA | 192.168.6.9 | 0 |

| 1024 | y976z753a267 | iuduike | Sales | South-215 | 134 | iuduike | 2022-05-09 | 06:46:40 | USA | 192.168.22.115 | 0 |

| 1034 | i679j565k940 | bsand | Human Resources | East-484 | 135 | bsand | 2022-05-09 | 14:06:33 | US | 192.168.91.238 | 0 |

| 1030 | e391f189g913 | mabadi | Marketing | West-375 | 136 | mabadi | 2022-05-10 | 06:56:44 | US | 192.168.214.234 | 0 |

| 1032 | g773h303i639 | jrafael | Information Technology | Central-309 | 137 | jrafael | 2022-05-12 | 02:42:37 | CAN | 192.168.186.176 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 138 | tmitchel | 2022-05-10 | 12:38:33 | MEXICO | 192.168.216.96 | 0 |

| 1026 | a998b568c863 | apatel | Human Resources | West-320 | 139 | apatel | 2022-05-11 | 01:54:36 | CAN | 192.168.95.222 | 0 |

| 1038 | m873n636o225 | btang | Human Resources | Central-260 | 140 | btang | 2022-05-10 | 13:17:29 | US | 192.168.249.111 | 0 |

| 1038 | m873n636o225 | btang | Human Resources | Central-260 | 141 | btang | 2022-05-12 | 10:12:03 | USA | 192.168.82.139 | 0 |

| 1005 | f551g340h864 | gesparza | Human Resources | South-366 | 142 | gesparza | 2022-05-11 | 06:31:14 | CANADA | 192.168.117.56 | 0 |

| 1025 | z381a365b233 | jhill | Sales | North-115 | 143 | jhill | 2022-05-11 | 00:30:22 | USA | 192.168.189.19 | 0 |

| 1046 | u429v921w138 | daquino | Finance | West-280 | 144 | daquino | 2022-05-09 | 11:09:32 | CANADA | 192.168.139.9 | 0 |

| 1029 | d336e475f676 | ivelasco | Finance | East-156 | 145 | ivelasco | 2022-05-08 | 09:06:02 | CANADA | 192.168.39.196 | 0 |

| 1012 | m756n668o146 | nmason | Information Technology | North-160 | 146 | nmason | 2022-05-10 | 02:25:55 | CANADA | 192.168.37.147 | 0 |

| 1033 | NULL | yappiah | Information Technology | West-387 | 147 | yappiah | 2022-05-08 | 06:04:34 | MEX | 192.168.65.245 | 0 |

| 1046 | u429v921w138 | daquino | Finance | West-280 | 148 | daquino | 2022-05-08 | 06:15:55 | CANADA | 192.168.135.6 | 0 |

| 1010 | k242l212m542 | jlansky | Finance | South-109 | 149 | jlansky | 2022-05-11 | 01:07:11 | USA | 192.168.238.42 | 0 |

| 1012 | m756n668o146 | nmason | Information Technology | North-160 | 150 | nmason | 2022-05-08 | 14:40:02 | CAN | 192.168.204.124 | 0 |

| 1030 | e391f189g913 | mabadi | Marketing | West-375 | 151 | mabadi | 2022-05-09 | 16:29:46 | USA | 192.168.30.225 | 0 |

| 1030 | e391f189g913 | mabadi | Marketing | West-375 | 152 | mabadi | 2022-05-12 | 10:24:43 | USA | 192.168.96.244 | 0 |

| 1021 | v200w121x977 | smartell | Information Technology | South-138 | 153 | smartell | 2022-05-12 | 13:32:52 | MEXICO | 192.168.218.219 | 0 |

| 1010 | k242l212m542 | jlansky | Finance | South-109 | 154 | jlansky | 2022-05-12 | 10:57:35 | US | 192.168.23.63 | 0 |

| 1041 | p929q222r778 | cgriffin | Sales | North-208 | 155 | cgriffin | 2022-05-12 | 22:18:42 | USA | 192.168.236.176 | 0 |

| 1038 | m873n636o225 | btang | Human Resources | Central-260 | 156 | btang | 2022-05-11 | 17:08:51 | USA | 192.168.243.95 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 157 | tmitchel | 2022-05-12 | 14:14:54 | MEXICO | 192.168.179.119 | 0 |

| 1021 | v200w121x977 | smartell | Information Technology | South-138 | 158 | smartell | 2022-05-09 | 19:30:32 | MEXICO | 192.168.190.178 | 0 |

| 1024 | y976z753a267 | iuduike | Sales | South-215 | 159 | iuduike | 2022-05-12 | 16:59:50 | USA | 192.168.220.115 | 0 |

| 1017 | r550s824t230 | jclark | Finance | North-188 | 160 | jclark | 2022-05-10 | 20:49:00 | CANADA | 192.168.214.49 | 0 |

| 1018 | s310t540u653 | abellmas | Finance | North-403 | 161 | abellmas | 2022-05-09 | 13:25:50 | CAN | 192.168.180.205 | 0 |

| 1033 | NULL | yappiah | Information Technology | West-387 | 162 | yappiah | 2022-05-09 | 04:51:22 | MEXICO | 192.168.162.100 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 163 | tmitchel | 2022-05-08 | 09:21:16 | MEX | 192.168.119.29 | 0 |

| 1017 | r550s824t230 | jclark | Finance | North-188 | 164 | jclark | 2022-05-12 | 21:15:52 | CAN | 192.168.18.34 | 0 |

| 1049 | NULL | jreckley | Finance | Central-295 | 165 | jreckley | 2022-05-08 | 15:28:43 | MEXICO | 192.168.34.193 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 166 | tmitchel | 2022-05-10 | 05:45:16 | MEX | 192.168.80.129 | 0 |

| 1017 | r550s824t230 | jclark | Finance | North-188 | 167 | jclark | 2022-05-12 | 15:47:45 | CAN | 192.168.146.51 | 0 |

| 1010 | k242l212m542 | jlansky | Finance | South-109 | 168 | jlansky | 2022-05-08 | 13:25:42 | USA | 192.168.210.94 | 0 |

| 1006 | g329h357i597 | alevitsk | Information Technology | East-320 | 169 | alevitsk | 2022-05-08 | 08:10:43 | CANADA | 192.168.210.228 | 0 |

| 1016 | q793r736s288 | sbaelish | Human Resources | North-229 | 170 | sbaelish | 2022-05-09 | 16:43:18 | USA | 192.168.65.113 | 0 |

| 1011 | l748m120n401 | drosas | Sales | South-292 | 171 | drosas | 2022-05-10 | 16:32:55 | USA | 192.168.92.218 | 0 |

| 1030 | e391f189g913 | mabadi | Marketing | West-375 | 172 | mabadi | 2022-05-08 | 08:06:50 | US | 192.168.180.41 | 0 |

| 1014 | NULL | asundara | Information Technology | West-219 | 173 | asundara | 2022-05-12 | 23:17:52 | US | 192.168.58.217 | 0 |

| 1043 | NULL | lyamamot | Information Technology | East-354 | 174 | lyamamot | 2022-05-10 | 12:26:27 | US | 192.168.228.122 | 0 |

| 1025 | z381a365b233 | jhill | Sales | North-115 | 175 | jhill | 2022-05-10 | 00:17:09 | USA | 192.168.130.218 | 0 |

| 1047 | v109w587x644 | cward | Finance | West-373 | 176 | cward | 2022-05-11 | 12:00:02 | MEX | 192.168.133.88 | 0 |

| 1007 | h174i497j413 | wjaffrey | Finance | North-406 | 177 | wjaffrey | 2022-05-11 | 00:15:55 | USA | 192.168.144.165 | 0 |

| 1003 | d394e816f943 | sgilmore | Finance | South-153 | 178 | sgilmore | 2022-05-08 | 12:27:22 | CAN | 192.168.52.216 | 0 |

| 1017 | r550s824t230 | jclark | Finance | North-188 | 179 | jclark | 2022-05-12 | 04:08:17 | CAN | 192.168.232.93 | 0 |

| 1048 | w167x592y375 | tmitchel | Finance | South-288 | 180 | tmitchel | 2022-05-12 | 14:53:21 | MEX | 192.168.190.202 | 0 |

| 1018 | s310t540u653 | abellmas | Finance | North-403 | 181 | abellmas | 2022-05-10 | 13:37:05 | CAN | 192.168.60.111 | 0 |

| 1043 | NULL | lyamamot | Information Technology | East-354 | 182 | lyamamot | 2022-05-10 | 06:01:31 | USA | 192.168.106.52 | 0 |

| 1012 | m756n668o146 | nmason | Information Technology | North-160 | 183 | nmason | 2022-05-11 | 05:29:36 | CANADA | 192.168.137.147 | 0 |

| 1006 | g329h357i597 | alevitsk | Information Technology | East-320 | 184 | alevitsk | 2022-05-08 | 03:09:48 | CAN | 192.168.33.70 | 0 |

| 1015 | p611q262r945 | jsoto | Finance | North-271 | 185 | jsoto | 2022-05-10 | 13:34:58 | USA | 192.168.151.91 | 0 |

| 1035 | j236k303l245 | bisles | Sales | South-171 | 186 | bisles | 2022-05-09 | 04:29:17 | USA | 192.168.40.72 | 0 |

| 1022 | w237x430y567 | arusso | Finance | West-465 | 187 | arusso | 2022-05-09 | 00:36:26 | MEX | 192.168.77.137 | 0 |

| 1015 | p611q262r945 | jsoto | Finance | North-271 | 188 | jsoto | 2022-05-11 | 00:39:09 | USA | 192.168.21.88 | 0 |

| 1012 | m756n668o146 | nmason | Information Technology | North-160 | 189 | nmason | 2022-05-08 | 05:37:24 | CANADA | 192.168.168.117 | 0 |

| 1015 | p611q262r945 | jsoto | Finance | North-271 | 190 | jsoto | 2022-05-09 | 05:09:21 | USA | 192.168.25.60 | 0 |

| 1039 | n253o917p623 | cjackson | Sales | East-378 | 191 | cjackson | 2022-05-08 | 06:46:07 | CANADA | 192.168.7.187 | 0 |

| 1035 | j236k303l245 | bisles | Sales | South-171 | 192 | bisles | 2022-05-10 | 08:32:03 | USA | 192.168.201.40 | 0 |

| 1009 | NULL | lrodriqu | Sales | South-134 | 193 | lrodriqu | 2022-05-08 | 07:11:29 | US | 192.168.125.240 | 0 |

| 1017 | r550s824t230 | jclark | Finance | North-188 | 194 | jclark | 2022-05-12 | 14:11:04 | CAN | 192.168.197.247 | 0 |

| 1006 | g329h357i597 | alevitsk | Information Technology | East-320 | 195 | alevitsk | 2022-05-11 | 06:59:13 | CANADA | 192.168.236.78 | 0 |

| 1042 | q175r338s833 | acook | Human Resources | West-381 | 196 | acook | 2022-05-10 | 09:56:48 | CAN | 192.168.52.90 | 0 |

| 1015 | p611q262r945 | jsoto | Finance | North-271 | 197 | jsoto | 2022-05-08 | 09:05:09 | US | 192.168.36.21 | 0 |

| 1033 | NULL | yappiah | Information Technology | West-387 | 198 | yappiah | 2022-05-12 | 10:37:22 | MEXICO | 192.168.103.106 | 0 |

| 1033 | NULL | yappiah | Information Technology | West-387 | 199 | yappiah | 2022-05-11 | 19:34:48 | MEXICO | 192.168.44.232 | 0 |

| 1017 | r550s824t230 | jclark | Finance | North-188 | 200 | jclark | 2022-05-12 | 01:11:45 | CANADA | 192.168.91.103 | 0 |

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