

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.

2. 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;
```

Copied!

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
b157c491d493	OS 2	Email Client 1	2021-03-01	0
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
b433c245d868	OS 1	Email Client 1	2021-06-01	1079
b551c837d758	OS 3	Email Client 1	2021-03-01	1105
b566c710d544	OS 1	Email Client 1	2021-06-01	1183
b806c503d354	OS 2	Email Client 1	2021-12-01	1027
b979c871d361	OS 2	Email Client 1	2021-03-01	1053
c116d593e558	OS 3	Email Client 1	2021-09-01	1002
c150d982e144	OS 2	Email Client 2	2021-06-01	1132
c185d679e493	OS 1	Email Client 2	2021-09-01	0

c406d877e950 OS 2	Email Client 1 2021-06-01	1158
c547d140e477 OS 2	Email Client 1 2021-03-01	1054
c568d742e974 OS 2	Email Client 2 2021-09-01	1080
c597d792e215 OS 2	Email Client 1 2021-09-01	1106
c603d749e374 OS 1	Email Client 1 2021-12-01	1028
c986d200e170 OS 2	Email Client 2 2021-09-01	1184
d168e758f876 OS 2	Email Client 1 2021-09-01	1107
d280e557f635 OS 3	Email Client 1 2021-03-01	0
d336e475f676 OS 2	Email Client 2 2021-06-01	1029
d394e816f943 OS 3	Email Client 2 2021-03-01	1003
d647e310f618 OS 2	Email Client 2 2021-06-01	1081
d693e351f221 OS 2	Email Client 2 2021-09-01	1133
d790e839f461 OS 1	Email Client 1 2021-06-01	1185
d831e972f553 OS 1	Email Client 1 2021-09-01	1055
d881e710f732 OS 3	Email Client 2 2021-03-01	1159
e113f288g203 OS 2	Email Client 2 2021-03-01	1108
e121f951g937 OS 3	Email Client 2 2021-06-01	0
e127f591g924 OS 3	Email Client 2 2021-12-01	1160
e218f877g788 OS 2	Email Client 1 2021-09-01	1004
e281f433g404 OS 1	Email Client 2 2021-12-01	1186
e301f659g551 OS 3	Email Client 2 2021-12-01	1082
e391f189g913 OS 3	Email Client 2 2021-12-01	1030
e395f616g566 OS 2	Email Client 2 2021-03-01	1134
e782f537g683 OS 1	Email Client 1 2021-03-01	1056
f117g394h201 OS 1	Email Client 2 2021-03-01	0
f229g533h679 OS 2	Email Client 2 2021-03-01	1109

f370g535h632 OS 2	Email Client 2 2021-09-01	1057
f419g188h578 OS 1	Email Client 1 2021-06-01	1031
f551g340h864 OS 3	Email Client 2 2021-12-01	1005
f840g812h544 OS 1	Email Client 2 2021-12-01	1083
f934g229h883 OS 2	Email Client 2 2021-03-01	1135
f951g408h866 OS 1	Email Client 2 2021-03-01	1161
f963g637h851 OS 1	Email Client 1 2021-06-01	1187
g164h566i795 OS 1	Email Client 1 2021-09-01	1188
g264h852i697 OS 3	Email Client 1 2021-03-01	1058
g299h520i457 OS 2	Email Client 1 2021-09-01	1136
g329h357i597 OS 1	Email Client 2 2021-06-01	1006
g567h376i314 OS 3	Email Client 1 2021-12-01	1110
g770h829i938 OS 2	Email Client 1 2021-09-01	0
g773h303i639 OS 2	Email Client 2 2021-12-01	1032
g950h972i991 OS 2	Email Client 1 2021-12-01	1084
g953h643i618 OS 2	Email Client 2 2021-06-01	1162
h165i539j638 OS 3	Email Client 1 2021-03-01	1137
h174i497j413 OS 2	Email Client 1 2021-03-01	1007
h339i498j269 OS 1	Email Client 1 2021-03-01	1085
h679i515j339 OS 3	Email Client 1 2021-09-01	1163
h784i120j837 OS 3	Email Client 2 2021-12-01	1189
h832i322j795 OS 1	Email Client 1 2021-09-01	1059
h835i179j862 OS 2	Email Client 2 2021-06-01	1111
i281j129k749 OS 3	Email Client 1 2021-06-01	1086
i446j874k974 OS 3	Email Client 1 2021-03-01	1060
i671j355k725 OS 2	Email Client 2 2021-03-01	1138

i679j565k940 OS 1	Email Client 1 2021-03-01	1034
i682j513k442 OS 3	Email Client 1 2021-03-01	1164
i772j807k175 OS 2	Email Client 1 2021-12-01	1112
i858j583k571 OS 2	Email Client 2 2021-06-01	1008
j236k303l245 OS 1	Email Client 1 2021-12-01	1035
j255k281l925 OS 3	Email Client 1 2021-06-01	1061
j637k986l199 OS 2	Email Client 1 2021-06-01	1139
j713k893l832 OS 2	Email Client 1 2021-03-01	1165
j781k420l510 OS 1	Email Client 1 2021-09-01	1113
j803k645l251 OS 2	Email Client 1 2021-12-01	1087
k242l212m542 OS 1	Email Client 1 2021-03-01	1010
k367l639m697 OS 1	Email Client 1 2021-12-01	1062
k495l234m708 OS 1	Email Client 2 2021-09-01	1166
k550l533m205 OS 3	Email Client 2 2021-09-01	1036
k570l183m949 OS 3	Email Client 1 2021-12-01	1192
k865l965m233 OS 3	Email Client 2 2021-12-01	1088
k982l199m839 OS 2	Email Client 2 2021-03-01	1140
l186m618n319 OS 1	Email Client 2 2021-12-01	1193
l282m821n717 OS 1	Email Client 1 2021-12-01	1141
l358m929n154 OS 3	Email Client 2 2021-03-01	1089
l552m734n118 OS 2	Email Client 2 2021-03-01	1115
l686m140n569 OS 3	Email Client 2 2021-12-01	1063
l693m585n528 OS 3	Email Client 1 2021-06-01	1037
l738m922n515 OS 1	Email Client 1 2021-03-01	1167
l748m120n401 OS 3	Email Client 1 2021-09-01	1011
m272n572o874 OS 3	Email Client 2 2021-09-01	1116

m340n287o441 OS 2	Email Client 2 2021-09-01	1194
m674n127o823 OS 3	Email Client 2 2021-03-01	1142
m756n668o146 OS 1	Email Client 2 2021-09-01	1012
m778n920o426 OS 2	Email Client 2 2021-06-01	1168
m873n636o225 OS 1	Email Client 2 2021-06-01	1038
m891n748o375 OS 2	Email Client 2 2021-12-01	1090
n205o559p243 OS 1	Email Client 2 2021-06-01	1013
n253o917p623 OS 1	Email Client 2 2021-09-01	1039
n378o313p469 OS 3	Email Client 2 2021-12-01	1091
n428o322p522 OS 1	Email Client 1 2021-12-01	1065
n516o853p957 OS 1	Email Client 1 2021-09-01	1195
n683o758p820 OS 2	Email Client 1 2021-12-01	1117
n704o364p471 OS 2	Email Client 2 2021-09-01	1143
o156p302q359 OS 2	Email Client 1 2021-03-01	1170
o225p357q829 OS 3	Email Client 1 2021-12-01	1196
o305p208q337 OS 3	Email Client 2 2021-03-01	1118
o391p779q935 OS 1	Email Client 2 2021-06-01	1092
o678p794q957 OS 1	Email Client 1 2021-09-01	1066
o783p832q294 OS 2	Email Client 2 2021-09-01	1040
p164q780r999 OS 3	Email Client 2 2021-12-01	1119
p288q432r721 OS 3	Email Client 2 2021-12-01	1067
p611q262r945 OS 1	Email Client 2 2021-03-01	1015
p752q137r169 OS 3	Email Client 2 2021-12-01	1145
p765q957r699 OS 2	Email Client 1 2021-06-01	1093
p791q114r509 OS 2	Email Client 1 2021-09-01	1197
p834q238r776 OS 3	Email Client 2 2021-03-01	1171

p929q222r778 OS 3	Email Client 1 2021-06-01	1041
q175r338s833 OS 3	Email Client 1 2021-06-01	1042
q228r135s755 OS 1	Email Client 2 2021-09-01	1146
q308r573s459 OS 3	Email Client 1 2021-03-01	1198
q372r826s628 OS 2	Email Client 1 2021-09-01	1172
q689r187s648 OS 2	Email Client 1 2021-12-01	1068
q793r736s288 OS 2	Email Client 1 2021-03-01	1016
q912r119s313 OS 2	Email Client 1 2021-06-01	1120
r194s893t593 OS 1	Email Client 2 2021-06-01	1095
r454s225t299 OS 2	Email Client 2 2021-12-01	1147
r520s571t459 OS 2	Email Client 2 2021-03-01	1199
r537s849t690 OS 1	Email Client 2 2021-09-01	1173
r550s824t230 OS 2	Email Client 1 2021-03-01	1017
r628s557t397 OS 1	Email Client 1 2021-12-01	1121
s103t952u851 OS 2	Email Client 2 2021-03-01	1122
s310t540u653 OS 1	Email Client 2 2021-12-01	1018
s328t505u907 OS 3	Email Client 2 2021-12-01	1148
s371t911u987 OS 1	Email Client 2 2021-06-01	1174
s375t538u194 OS 2	Email Client 1 2021-12-01	1096
s429t157u159 OS 1	Email Client 1 2021-03-01	1044
s772t175u409 OS 1	Email Client 1 2021-06-01	1070
s918t412u294 OS 3	Email Client 2 2021-12-01	0
t244u829v723 OS 1	Email Client 2 2021-06-01	1071
t363u179v368 OS 3	Email Client 2 2021-03-01	1097
t479u468v151 OS 1	Email Client 1 2021-06-01	1123
t567u844v434 OS 3	Email Client 2 2021-12-01	1045

t709u492v884 OS 1	Email Client 2 2021-06-01	1149
t801u630v138 OS 2	Email Client 2 2021-03-01	0
t815u205v470 OS 3	Email Client 1 2021-06-01	1019
t959u687v394 OS 2	Email Client 2 2021-06-01	1175
u113v483w811 OS 3	Email Client 2 2021-06-01	0
u340v931w764 OS 2	Email Client 2 2021-09-01	1124
u429v921w138 OS 2	Email Client 2 2021-12-01	1046
u554v512w139 OS 1	Email Client 1 2021-03-01	1150
u671v146w618 OS 1	Email Client 2 2021-09-01	1098
u849v569w521 OS 2	Email Client 1 2021-06-01	1176
u899v381w363 OS 3	Email Client 1 2021-06-01	1020
u905v920w694 OS 1	Email Client 1 2021-09-01	1072
v109w587x644 OS 2	Email Client 2 2021-03-01	1047
v135w241x773 OS 2	Email Client 2 2021-12-01	1073
v200w121x977 OS 2	Email Client 2 2021-03-01	1021
v283w690x104 OS 1	Email Client 1 2021-03-01	1099
v491w553x421 OS 2	Email Client 2 2021-03-01	1125
v691w183x928 OS 1	Email Client 2 2021-09-01	1177
v846w200x439 OS 1	Email Client 1 2021-06-01	0
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
w237x430y567 OS 2	Email Client 2 2021-06-01	1022
w326x611y598 OS 1	Email Client 2 2021-03-01	1100
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
y103z561a649 OS 2	Email Client 1 2021-03-01	1128
y131z211a578 OS 2	Email Client 1 2021-03-01	1180
y132z930a114 OS 2	Email Client 2 2021-06-01	1050
y246z508a775 OS 2	Email Client 1 2021-12-01	0
y347z204a710 OS 2	Email Client 2 2021-12-01	1076
y765z123a548 OS 2	Email Client 2 2021-06-01	1154
y943z930a241 OS 1	Email Client 2 2021-09-01	1102
y976z753a267 OS 2	Email Client 2 2021-06-01	1024
z381a365b233 OS 3	Email Client 2 2021-12-01	1025
z451a308b518 OS 2	Email Client 1 2021-03-01	1051
z566a147b347 OS 1	Email Client 1 2021-12-01	1129
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			
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 pjames 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 nyong 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

closeareyes

2. 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		
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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
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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		
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l686m140n569 lpope	Sales East-226		
n428o322p522 OS 1	Email Client 1 2021-12-01	1065	1065
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o678p794q957 OS 1	Email Client 1 2021-09-01	1066	1066
o678p794q957 ttyrell	Sales Central-444		
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p288q432r721 lwhite	Marketing North-277		
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q689r187s648 djames	Information Technology West-438		
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s772t175u409 tbailey	Human Resources North-204		
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t244u829v723 zdutchma	Sales West-348		
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u905v920w694 esmith	Sales East-421		

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v135w241x773 srobinso Marketing	Central-494		
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w622x645y348 dcoleman Information Technology	East-126		
x573y883z772 OS 1	Email Client 1 2021-12-01	1075	1075
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y347z204a710 OS 2	Email Client 2 2021-12-01	1076	1076
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b433c245d868 gmedina Marketing	North-456		
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c568d742e974 gmoon Marketing	North-156		
d647e310f618 OS 2	Email Client 2 2021-06-01	1081	1081
d647e310f618 qcorbit Finance	South-290		
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n378o313p469 rtran	Sales Central-230		
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o391p779q935 lpark	Sales West-227		
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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		
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t363u179v368 jlee	Human Resources South-254		
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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 mjjin	Human Resources Central-371		
x701y250z303 OS 3	Email Client 2 2021-03-01	1101	1101
x701y250z303 ichowdhu	Human Resources East-233		
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v491w553x421 OS 2	Email Client 2 2021-03-01	1125	1125
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w190x708y760 lmiller	Information Technology West-296		
x127y181z890 OS 2	Email Client 1 2021-06-01	1127	1127
x127y181z890 jterranc	Information Technology Central-256		
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b265c937d713 asierra	Information Technology South-159		
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c150d982e144 creddy	Human Resources Central-210		
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e395f616g566 OS 2	Email Client 2 2021-03-01	1134	1134
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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	
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m674n127o823 OS 3	Email Client 2 2021-03-01	1142	1142
m674n127o823 lsilva	Finance	East-440	
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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	
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r454s225t299 tvega	Finance	West-177	
s328t505u907 OS 3	Email Client 2 2021-12-01	1148	1148
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u554v512w139 lmarin	Marketing	Central-364	
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v852w513x954 sshah	Human Resources	North-272	

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x677y330z296 ncardena Marketing	Central-363		
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y765z123a548 obryand Marketing	North-182		
z942a966b589 OS 3	Email Client 1 2021-09-01	1155	1155
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a184b775c707 OS 1	Email Client 1 2021-09-01	1156	1156
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b264c773d977 OS 2	Email Client 2 2021-03-01	1157	1157
b264c773d977 lstein Human Resources	Central-343		
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i682j513k442 fsmeltz Finance	North-163		
j713k893l832 OS 2	Email Client 1 2021-03-01	1165	1165
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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			
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x174y934z376 OS 1	Email Client 2 2021-06-01	1179	1179
x174y934z376 asalas Human Resources North-445			
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b566c710d544 OS 1	Email Client 1 2021-06-01	1183	1183
b566c710d544 lquraish Human Resources East-400			

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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
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g164h566i795 OS 1	Email Client 1 2021-09-01	1188	1188
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h784i120j837 OS 3	Email Client 2 2021-12-01	1189	1189
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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 esantiago	Information Technology	Central-300	
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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
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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	
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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	
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```

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

```

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 |
```


NULL	NULL	NULL	NULL	NULL	1009	NULL	lrodriqu
Sales	South-134						
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k242l212m542	jlansky	Finance	South-109				
l748m120n401	OS 3	Email Client 1	2021-09-01		1011		1011
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Information Technology	West-219						
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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
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f419g188h578 dkot Marketing	West-408		
g773h303i639 OS 2	Email Client 2 2021-12-01	1032	1032
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NULL NULL NULL NULL NULL	1033 NULL yappiah		
Information Technology West-387			
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		
NULL NULL NULL NULL NULL	1049 NULL jreckley		
Finance Central-295			
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		
NULL NULL NULL	NULL NULL	1064	NULL ejones
Marketing South-477			
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			
NULL	NULL	NULL	NULL
NULL	NULL	1094	1094
Information Technology Central-463			
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	
NULL NULL NULL	NULL NULL 1103 NULL	randerss
Marketing East-460		
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 pjames	Human Resources East-366	

NULL	NULL	NULL	NULL	NULL	1114	NULL	xgreene
Marketing	North-335						
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	

NULL	NULL	NULL	NULL	NULL	1144	NULL	erobinso
Finance	Central-266						
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				
NULL	NULL	NULL	NULL	NULL	1152	NULL	nwilliam
Marketing	Central-170						
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 nyong	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	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	1190	NULL
Marketing	Central-270				kcarter
NULL	NULL	NULL	NULL	1191	NULL
Marketing	Central-366				shakimi
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 |
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| 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 |
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| 1030 | e391f189g913 | mabadi | Marketing | West-375 | 152 | mabadi | 2022-
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| 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-
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| 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 |

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| 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 |

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| 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
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1015	p611q262r945	jsoto	Finance	North-271	197	jsoto	2022-05-08	09:05:09	US	192.168.36.21	0
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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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MariaDB [organization]>

