

```
1
MariaDB [phoenix]> SELECT state, COUNT(*) FROM vets2 GROUP BY state ORDER BY
COUNT(lname) DESC;
+-----+-----+
| state | COUNT(*) |
+-----+-----+
| CA    | 5575     |
| NY    | 4120     |
| TX    | 3414     |
| PA    | 3141     |
| OH    | 3092     |
| IL    | 2930     |
| MI    | 2654     |
| FL    | 1950     |
| NC    | 1609     |
| GA    | 1583     |
| IN    | 1531     |
| NJ    | 1484     |
| MO    | 1411     |
| MA    | 1322     |
| VA    | 1304     |
| TN    | 1291     |
| AL    | 1207     |
| WI    | 1160     |
| MN    | 1072     |
| KY    | 1055     |
| WA    | 1050     |
| MD    | 1014     |
| OK    | 988      |
| SC    | 895      |
| LA    | 882      |
| IA    | 852      |
| WV    | 731      |
| OR    | 709      |
| MS    | 637      |
| KS    | 626      |
| AZ    | 622      |
| CO    | 619      |
| CT    | 612      |
| AR    | 588      |
| NM    | 399      |
```

The states and counts grouped and ordered.

```
MariaDB [phoenix]> SELECT state FROM vets2 EXCEPT SELECT Abbreviation FROM States UNION ALL SELECT Abbreviation FROM States EXCEPT SELECT state FROM vets2;
```

state
"Abbreviat
"AK"
"AL"
"AR"
"AZ"
"CA"
"CO"
"CT"
"DC"
"DE"
"FL"
"GA"
"HI"
"IA"
"ID"
"IL"
"IN"
"KS"
"KY"
"LA"
"MA"
"MD"
"ME"
"MI"
"MN"
"MO"
"MS"
"MT"
"NC"
"ND"
"NE"
"NH"
"NJ"
"NM"
"NV"

The states included in table 1 but not table 2.

```
MySQL Client (MariaDB 12.1) x + v
"IL"
"IN"
"KS"
"KY"
"LA"
"MA"
"MD"
"ME"
"MI"
"MN"
"MO"
"MS"
"MT"
"NC"
"ND"
"NE"
"NH"
"NJ"
"NM"
"NV"
"NY"
"OH"
"OK"
"OR"
"PA"
"RI"
"SC"
"SD"
"TN"
"TX"
"UT"
"VA"
"VT"
"WA"
"WI"
"WV"
"WY"
+-----+
52 rows in set (0.073 sec)

MariaDB [phoenix]> |
```

Sourcing employee file.

```

MariaDB [(none)]> source C:\\Users\\PHOENIX\\OneDrive\\Documents\\SCHOOL\\pr
inciples\\EmployeesDatabase.sql;
ERROR: Unknown command '\\'.
ERROR: Unknown command '\\'.
ERROR: Unknown command '\\'.
ERROR: Unknown command '\\'.
ERROR: Unknown command '\\'.
ERROR: Unknown command '\\'.
ERROR: Unknown command '\\'.
ERROR 1044 (42000) at line 3 in file: 'C:\\Users\\PHOENIX\\OneDrive\\Documents\\
SCHOOL\\principles\\EmployeesDatabase.sql': Access denied for user 'phoenix'@'
localhost' to database 'employee'
-----
CREATE TABLE departments (
    id INT PRIMARY KEY,
    department_name VARCHAR(100),
    manager_id INT
)
-----

ERROR 1046 (3D000) at line 4 in file: 'C:\\Users\\PHOENIX\\OneDrive\\Documents\\
SCHOOL\\principles\\EmployeesDatabase.sql': No database selected
-----
CREATE TABLE employees (
    id INT PRIMARY KEY,
    name VARCHAR(100),
    salary DECIMAL(10,2),
    department_id INT,
    manager_id INT,
    FOREIGN KEY (department_id) REFERENCES departments(id),
    FOREIGN KEY (manager_id) REFERENCES employees(id)
)
-----

ERROR 1046 (3D000) at line 10 in file: 'C:\\Users\\PHOENIX\\OneDrive\\Documents
\\SCHOOL\\principles\\EmployeesDatabase.sql': No database selected
-----
INSERT INTO departments (id, department_name, manager_id) VALUES
(1, 'HR', 3),
(2, 'Engineering', 10),
(3, 'Marketing', 7),

```

```
-----  
INSERT INTO employees (id, name, salary, department_id, manager_id) VALUES  
(1, 'Alice', 60000, 2, 10),  
(2, 'Bob', 55000, 2, 10),  
(4, 'David', 75000, 4, 5),  
(6, 'Frank', 47000, 1, 3),  
(9, 'Ivy', 67000, 5, 8),  
(11, 'Karen', 62000, 6, 12),  
(13, 'Mike', 48000, 7, 14),  
(15, 'Olivia', 51000, 3, 7),  
(16, 'Paul', 53000, 1, 3),  
(17, 'Quincy', 59000, 2, 10),  
(18, 'Rachel', 61000, 4, 5),  
(19, 'Steve', 64000, 5, 8),  
(20, 'Tracy', 66000, 6, 12),  
(21, 'Uma', 68000, 7, 14),  
(22, 'Victor', 70000, 3, 7),  
(23, 'Wendy', 72000, 1, 3),  
(24, 'Xander', 74000, 2, 10),  
(25, 'Yvonne', 76000, 4, 5),  
(26, 'Zach', 78000, 5, 8)  
-----
```

```
ERROR 1046 (3D000) at line 43 in file: 'C:\\Users\\PHOENIX\\OneDrive\\Documents\\  
SCHOOL\\principles\\EmployeesDatabase.sql': No database selected
```

```
MariaDB [(none)]> use phoenix
```

```
Database changed
```

```
MariaDB [phoenix]> source C:\\Users\\PHOENIX\\OneDrive\\Documents\\SCHOOL\\p  
principles\\EmployeesDatabase.sql;
```

```
ERROR: Unknown command '\\'.  
ERROR: Unknown command '\\'.  
ERROR: Unknown command '\\'.  
ERROR: Unknown command '\\'.  
ERROR: Unknown command '\\'.  
ERROR: Unknown command '\\'.  
ERROR: Unknown command '\\'.  
ERROR 1044 (42000) at line 3 in file: 'C:\\Users\\PHOENIX\\OneDrive\\Documents\\  
SCHOOL\\principles\\EmployeesDatabase.sql': Access denied for user 'phoenix'@'  
localhost' to database 'employee'
```

```
Query OK, 0 rows affected (0.018 sec)
```

```

MariaDB [phoenix]> show tables
-> ;
+-----+
| Tables_in_phoenix |
+-----+
| departments        |
| employees          |
| states             |
| vets               |
| vets2              |
+-----+
5 rows in set (0.002 sec)

MariaDB [phoenix]> show databases
-> ;
+-----+
| Database            |
+-----+
| information_schema  |
| phoenix             |
| test                |
+-----+
3 rows in set (0.001 sec)

MariaDB [phoenix]> |

```

New tables inserted after employee

```
MySQL Client (MariaDB 12.1) x + v
MariaDB [(none)]> use phoenix
Database changed
MariaDB [phoenix]> source C:\Users\PHOENIX\OneDrive\Documents\SCHOOL\principles\StudentExample.sql
-----
create database if not exists mynewpaltz
-----

ERROR 1044 (42000) at line 1 in file: 'C:\Users\PHOENIX\OneDrive\Documents\SCHOOL\principles\StudentExample.sql': Access denied for user 'phoenix'@'localhost' to database 'mynewpaltz'
ERROR 1044 (42000) at line 2 in file: 'C:\Users\PHOENIX\OneDrive\Documents\SCHOOL\principles\StudentExample.sql': Access denied for user 'phoenix'@'localhost' to database 'mynewpaltz'
Query OK, 0 rows affected (0.009 sec)

Query OK, 0 rows affected (0.008 sec)
Query OK, 0 rows affected (0.009 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.002 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 0 rows affected (0.033 sec)
Records: 0 Duplicates: 0 Warnings: 0

Query OK, 1 row affected (0.003 sec)
```

Sources the student file

```
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.002 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.001 sec)
Query OK, 1 row affected (0.001 sec)
MariaDB [phoenix]> |
```

```
MariaDB [phoenix]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| phoenix |
| test |
+-----+
3 rows in set (0.001 sec)

MariaDB [phoenix]> show tables;
+-----+
| Tables_in_phoenix |
+-----+
| coursetable |
| departments |
| employees |
| enrollmenttable |
| states |
| studenttable |
| vets |
| vets2 |
+-----+
8 rows in set (0.001 sec)

MariaDB [phoenix]> |
```

The new tables added after student file