```
MariaDB [classDB]> SELECT count(*) FROM vets where trim(state) = state;
+----------+
| count(*) |
+----------+
|       83 |
+----------+
1 row in set (0.030 sec)
```

- This line is to show the number of empty rows there are in the table

```
MariaDB [classDB]> DELETE FROM vets
    -> WHERE state IS NULL OR state = '';
Query OK, 83 rows affected (0.039 sec)

MariaDB [classDB]> SELECT ROW_COUNT();
+-------------+
| ROW_COUNT() |
+-------------+
|          83 |
+-------------+
1 row in set (0.000 sec)
```

- We deleted 83 rows that were empty to clean up the table

```
MariaDB [classDB]> SELECT DISTINCT state FROM vets;
+-------+
| state |
+-------+
| SD    |
| TX    |
| MN    |
| WA    |
| MA    |
| FL    |
| DC    |
| PA    |
| NJ    |
| IL    |
| NY    |
| MO    |
| CA    |
```

- Asking for "DISTINCT" stuff from a table/column will get you one of each answer type, no
  doubles

```
MariaDB [classDB]> UPDATE vets SET fname = TRIM(name), town  = TRIM(town), state]
Query OK, 58170 rows affected (0.162 sec)
```

- Setting all column's to be trimmed and have no empty space

```
MariaDB [classDB]> SELECT *
    -> FROM vets
    -> WHERE state LIKE 'CA%';
+------------------+------------------+------------------+-------+
| name             | fname            | town             | state |
+------------------+------------------+------------------+-------+
| ABBIE            | ABBIE            | SACRAMENTO       | CA    |
| ABBOTT           | ABBOTT           | YUBA CITY        | CA    |
| ABBOTT           | ABBOTT           | SAN DIEGO        | CA    |
| ABEYTA           | ABEYTA           | LOS ANGELES      | CA    |
| ABINA            | ABINA            | SAN LEANDRO      | CA    |
| ABLES            | ABLES            | NEWHALL          | CA    |
| ABNER            | ABNER            | CAMPBELL         | CA    |
| ABRAHAM          | ABRAHAM          | SANTA ANA        | CA    |
| ACEVEDO          | ACEVEDO          | LOS ANGELES      | CA    |
| ACHICA           | ACHICA           | SAN FRANCISCO    | CA    |
| ACHOR            | ACHOR            | WHITTIER         | CA    |
| ACKLEY           | ACKLEY           | DUNNIGAN         | CA    |
```

- Like 'XX%' has many uses, such as looking for a substring or a specific string

```
MariaDB [classDB]> SELECT * FROM vets WHERE town LIKE 'Los%';
+------------------+------------------+------------------+-------+
| name             | fname            | town             | state |
+------------------+------------------+------------------+-------+
| ABEYTA           | ABEYTA           | LOS ANGELES      | CA    |
| ACEVEDO          | ACEVEDO          | LOS ANGELES      | CA    |
| ACUNIA           | ACUNIA           | LOS ANGELES      | CA    |
| ADACHI           | ADACHI           | LOS ANGELES      | CA    |
| AGUILAR          | AGUILAR          | LOS ANGELES      | CA    |
| AKINS            | AKINS            | LOS ANGELES      | CA    |
| ALEXANDER        | ALEXANDER        | LOS ANGELES      | CA    |
| ALEXANDER        | ALEXANDER        | LOS ANGELES      | CA    |
| ALLEN            | ALLEN            | LOS ANGELES      | CA    |
| ALMARAZ          | ALMARAZ          | LOS ANGELES      | CA    |
| ALMEIDA          | ALMEIDA          | LOS ANGELES      | CA    |
| ALVAREZ          | ALVAREZ          | LOS ANGELES      | CA    |
| AMISON           | AMISON           | LOS ANGELES      | CA    |
```

```
MariaDB [classDB]> SELECT state, COUNT(*) AS vet_count
    -> FROM vets
    -> WHERE town LIKE 'LOS %'
    ->    AND town <> 'LOS ANGELES'
    -> GROUP BY state;
+-------+-----------+
| state | vet_count |
+-------+-----------+
| CA    |        34 |
| NM    |         6 |
| TX    |         3 |
+-------+-----------+
```

- "AND" adds more specific searches, and <> means !=

```
MariaDB [classDB]> SELECT *
    -> FROM vets
    -> WHERE state = 'GU'
    -> ORDER BY fname;
+------------+------------+-------------------+-------+
| name       | fname      | town              | state |
+------------+------------+-------------------+-------+
| AGUON      | AGUON      | UMATAC            | GU    |
| ASANOMA    | ASANOMA    | INARAJAN          | GU    |
| BENAVENTE  | BENAVENTE  | DEDEDO            | GU    |
| BIAGINI    | BIAGINI    | MANGILAO          | GU    |
| BLAS       | BLAS       | YONA              | GU    |
| BLAZ       | BLAZ       | DEDEDO            | GU    |
| BORJA      | BORJA      | AGANA             | GU    |
| CABRERA    | CABRERA    | PIQUA MERIZO      | GU    |
| CAMACHO    | CAMACHO    | TAMUNING          | GU    |
| CARTER     | CARTER     | DEDEDO            | GU    |
| CASTRO     | CASTRO     | MONGMONG          | GU    |
| CEPEDA     | CEPEDA     | DEDEDO            | GU    |
| CRUZ       | CRUZ       | INARAJAN          | GU    |
| CRUZ       | CRUZ       | SANTA RITA        | GU    |
```

- You can use ORDER BY xxx DESC to make it descending order

```
MariaDB [classDB]> SELECT * FROM States;
+-----------------------+----------------+
| stateName             | abbrev         |
+-----------------------+----------------+
| "State"               | "Abbreviation" |
| "Alabama"             | "AL"           |
| "Alaska"              | "AK"           |
| "Arizona"             | "AZ"           |
| "Arkansas"            | "AR"           |
| "California"          | "CA"           |
| "Colorado"            | "CO"           |
| "Connecticut"         | "CT"           |
| "Delaware"            | "DE"           |
| "District of Columbia"| "DC"           |
| "Florida"             | "FL"           |
| "Georgia"             | "GA"           |
| "Hawaii"              | "HI"           |
| "Idaho"               | "ID"           |
| "Illinois"            | "IL"           |
| "Indiana"             | "IN"           |
| "Iowa"                | "IA"           |
| "Kansas"              | "KS"           |
```

- State and abbreviation are added to the list instead of just headers