LIKE Operator

This lesson discusses how to use the LIKE operator for filtering rows.

LIKE Operator

In this lesson we'll learn how to query the data using the **LIKE** operator in the **WHERE** clause.

Example Syntax

```
SELECT col1, col2, ... coln
FROM table
WHERE col3 LIKE "%some-string%"
```

Connect to the terminal below by clicking in the widget. Once connected, the command line prompt will show up. Enter or copy and paste the command ./DataJek/Lessons/9lesson.sh and wait for the MySQL prompt to start-up.

```
-- The lesson queries are reproduced below for convenient copy/paste into the terminal.

-- Query 1
SELECT * from Actors WHERE FirstName LIKE "Jen%";

-- Query 2
SELECT * from Actors where FirstName LIKE "Jennifer%";

-- Query 3
SELECT * from Actors where FirstName LIKE "%";

-- Query 4
```

```
SELECT * from Actors WHERE FirstName LIKE "_enn%";

-- Query 5

SHOW DATABASES LIKE "M%";

-- Query 6

SHOW TABLES LIKE "A%";
```

Terminal



The **LIKE** operator works only with string data types and allows us to retrieve rows based on pattern matching on a particular column.

1. Say, you have forgotten the full name of a particular actor but remember that the name starts with the string "Jen". You can check if there is an actor with a name that has "Jen" as the prefix by executing the following query in the terminal.

Note that we use the string "Jen%" and not "Jen". In fact, if you used the latter, no rows will be matched.

```
mysql> SELECT * from Actors WHERE FirstName LIKE "Jen";
Empty set (0.00 sec)
```

The % symbol is a wildcard character that matches all strings. It can match zero or more characters. For instance, the following query returns one row and the wildcard character matches zero characters.

As a final example, executing the following query will match all the rows in the table.

```
SELECT * from Actors where FirstName LIKE "%";
```

```
mysql> SELECT * from Actors where FirstName LIKE "%";
| Id | FirstName | SecondName | DoB | Gender | MaritalStatus | NetWorthInMillions |
240 I
                                                                            100 l
                                                                             200 I
                                                                             60 I
                                                                            570 I
                                                                            1000 l
                                                                            370 I
  9 | Amitabh | Bachchan | 1942-10-11 | Male | Married
                                                                            400 l
| 10 | Shahrukh | Khan | 1965-11-02 | Male | Married | 11 | priyanka | Chopra | 1982-07-18 | Female | Married
                                                                            600 I
                                                                             28 I
11 rows in set (0.00 sec)
```

2. We can use the underscore _ character to match exactly one character. For instance, the expression **LIKE** "_enn%" will match the string "Jennifer".

3. The **LIKE** clause can also be used with the **SHOW** command. For example:

```
show databases like "M%";

mysql> SHOW DATABASES LIKE "M%";
+----+
| Database (M%) |
+----+
| MovieIndustry |
```

1 row in set (0.00 sec)

Note that the **LIKE** statement is case sensitive. It shows different results for patterns "%M" and "%m". We can also use **LIKE** when listing tables as the following example demonstrates: