

## MySQL - String Function + Selection Refining Exercise - Lecture 12

**LIMIT** - Its being used to truncate the records as per preview. 10 records out of 2000.  
 Write a query to provide top 10 batsmen in ICC Cricket.  
 Top 5, Top 1, Bottom 10, Least 1 person, Top 5 Richest Person.

Top  
Bottom

→ Sorting [Order By , Ascending Or Descending].

```
mysql> SELECT * FROM BOOKS ORDER BY Book_id LIMIT 10;
+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+-----+-----+-----+-----+-----+
| 1 | The Namesake | Jhumpa | Lahiri | 2003 | 32 | 291 |
| 2 | Norse Mythology | Neil | Gaiman | 2016 | 43 | 304 |
| 3 | American Gods | Neil | Gaiman | 2001 | 12 | 465 |
| 4 | Interpreter of Maladies | Jhumpa | Lahiri | 1996 | 97 | 198 |
| 5 | A Hologram for the King: A Novel | Dave | Eggers | 2012 | 154 | 352 |
| 6 | The Circle | Dave | Eggers | 2013 | 26 | 504 |
| 7 | The Amazing Adventures of Kavalier & Clay | Michael | Chabon | 2000 | 68 | 634 |
| 8 | Just Kids | Patti | Smith | 2010 | 55 | 304 |
| 9 | A Heartbreaking Work of Staggering Genius | Dave | Eggers | 2001 | 104 | 437 |
| 10 | Coraline | Neil | Gaiman | 2003 | 100 | 208 |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> SELECT * FROM BOOKS ORDER BY Book_id DESC LIMIT 10;
+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+-----+-----+-----+-----+-----+
| 19 | Lincoln In The Bardo | George | Saunders | 2017 | 1000 | 367 |
| 18 | fake_book | Freida | Harris | 2001 | 287 | 428 |
| 17 | 10% Happier | Dan | Harris | 2014 | 29 | 256 |
| 16 | Consider the Lobster | David | Foster Wallace | 2005 | 92 | 343 |
| 15 | Oblivion: Stories | David | Foster Wallace | 2004 | 172 | 329 |
| 14 | Cannery Row | John | Steinbeck | 1945 | 95 | 181 |
| 13 | White Noise | Don | DeLillo | 1985 | 49 | 320 |
| 12 | Where I'm Calling From: Selected Stories | Raymond | Carver | 1989 | 12 | 526 |
| 11 | What We Talk About When We Talk About Love: Stories | Raymond | Carver | 1981 | 23 | 176 |
| 10 | Coraline | Neil | Gaiman | 2003 | 100 | 208 |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> SELECT Title, Released_year FROM Books ORDER BY 2 DESC LIMIT 5;
+-----+-----+
| Title | Released_year |
+-----+-----+
| Lincoln In The Bardo | 2017 |
| Norse Mythology | 2016 |
| 10% Happier | 2014 |
| The Circle | 2013 |
| A Hologram for the King: A Novel | 2012 |
+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> SELECT Title, Released_year FROM Books ORDER BY 2 DESC LIMIT 0,5;
+-----+-----+
| Title | Released_year |
+-----+-----+
| Lincoln In The Bardo | 2017 |
| Norse Mythology | 2016 |
| 10% Happier | 2014 |
| The Circle | 2013 |
| A Hologram for the King: A Novel | 2012 |
+-----+-----+
5 rows in set (0.00 sec)
```

Start from index 5  
[0 based indexing] & fetch 7 records after it.

```
mysql> SELECT Title, Released_year FROM Books ORDER BY 2 DESC LIMIT 5,7;
+-----+-----+
| Title | Released_year |
+-----+-----+
| Just Kids | 2010 |
| Consider the Lobster | 2005 |
| Oblivion: Stories | 2004 |
| The Namesake | 2003 |
| Coraline | 2003 |
| American Gods | 2001 |
| A Heartbreaking Work of Staggering Genius | 2001 |
+-----+-----+
7 rows in set (0.00 sec)
```

From index 5 till end of records.

```
mysql> SELECT Title, Released_year FROM Books ORDER BY 2 DESC LIMIT 5,1239023;
+-----+-----+
| Title | Released_year |
+-----+-----+
| Just Kids | 2010 |
| Consider the Lobster | 2005 |
| Oblivion: Stories | 2004 |
| The Namesake | 2003 |
| Coraline | 2003 |
| American Gods | 2001 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| fake_book | 2001 |
| The Amazing Adventures of Kavalier & Clay | 2000 |
| Interpreter of Maladies | 1996 |
| Where I'm Calling From: Selected Stories | 1989 |
| White Noise | 1985 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| Cannery Row | 1945 |
+-----+-----+
14 rows in set (0.00 sec)
```

```
mysql> SELECT COUNT(*) FROM Books;
+-----+
| COUNT(*) |
+-----+
| 19 |
+-----+
1 row in set (0.01 sec)
```

LIKE [Wildcards]....

% , \_

WHERE Clause Title LIKE "abc";  
Like keyword helps you to apply filter on String Data.

"Adventures"

% - 0 or more characters

%oing

Sing, King, Swimming, beginning,  
ending, running, playing, flying, eating.

\_ -> 1 char

\_at

bat, eat, cat, fat, mat, hat, etc

```
mysql> SELECT title FROM Books WHERE Title LIKE "Kids";
Empty set (0.00 sec)

mysql> SELECT title FROM Books WHERE Title LIKE "%Kids";
Empty set (0.00 sec)

mysql> SELECT title FROM Books WHERE Title LIKE "%Kids%";
+-----+
| title |
+-----+
| Just Kids |
+-----+
1 row in set (0.00 sec)

mysql> SELECT title FROM Books WHERE Title LIKE "Adventures";
Empty set (0.00 sec)

mysql> SELECT title FROM Books WHERE Title LIKE "%Adventures";
Empty set (0.00 sec)

mysql> SELECT title FROM Books WHERE Title LIKE "%Adventures%";
+-----+
| title |
+-----+
| The Amazing Adventures of Kavalier & Clay |
+-----+
1 row in set (0.00 sec)

mysql> SELECT title FROM Books WHERE Title LIKE "%Kids%";
+-----+
| title |
+-----+
| Just Kids |
+-----+
```

PIN CODE - \_\_\_\_\_

'1','2','3','4','5','6','7','8','9','0'/'

```

mysql> SELECT title , author_fname FROM Books where author_fname LIKE "David";
+-----+-----+
| title | author_fname |
+-----+-----+
| Oblivion: Stories | David |
| Consider the Lobster | David |
+-----+-----+
2 rows in set (0.00 sec)

mysql> SELECT title , author_fname FROM Books where author_fname LIKE "Da%";
+-----+-----+
| title | author_fname |
+-----+-----+
| A Hologram for the King: A Novel | Dave |
| The Circle | Dave |
| A Heartbreaking Work of Staggering Genius | Dave |
| Oblivion: Stories | David |
| Consider the Lobster | David |
| 10% Happier | Dan |
+-----+-----+
6 rows in set (0.00 sec)

```

There's a book I'm looking for...

I know the author's first name is David...

Or wait, maybe it's Dan...or Dave

```

mysql> SELECT title , author_fname FROM Books where author_fname LIKE "%Da%";
+-----+-----+
| title | author_fname |
+-----+-----+
| A Hologram for the King: A Novel | Dave |
| The Circle | Dave |
| A Heartbreaking Work of Staggering Genius | Dave |
| Oblivion: Stories | David |
| Consider the Lobster | David |
| 10% Happier | Dan |
| fake_book | Freida |
+-----+-----+
7 rows in set (0.00 sec)

mysql> SELECT title , author_fname FROM Books where author_fname LIKE "Da_";
+-----+-----+
| title | author_fname |
+-----+-----+
| 10% Happier | Dan |
+-----+-----+
1 row in set (0.00 sec)

```

```

mysql> SELECT title , stock_quantity FROM Books;
+-----+-----+
| title | stock_quantity |
+-----+-----+
| The Namesake | 32 |
| Norse Mythology | 43 |
| American Gods | 12 |
| Interpreter of Maladies | 97 |
| A Hologram for the King: A Novel | 154 |
| The Circle | 26 |
| The Amazing Adventures of Kavalier & Clay | 68 |
| Just Kids | 55 |
| A Heartbreaking Work of Staggering Genius | 104 |
| Coraline | 100 |
| What We Talk About When We Talk About Love: Stories | 23 |
| Where I'm Calling From: Selected Stories | 12 |
| White Noise | 49 |
| Cannery Row | 95 |
| Oblivion: Stories | 172 |
| Consider the Lobster | 92 |
| 10% Happier | 29 |
| fake_book | 287 |
| Lincoln In The Bardo | 1000 |
+-----+-----+
19 rows in set (0.00 sec)

```

```

mysql> SELECT title , stock_quantity FROM Books WHERE stock_quantity LIKE "%__";
+-----+-----+
| title | stock_quantity |
+-----+-----+
| A Hologram for the King: A Novel | 154 |
| A Heartbreaking Work of Staggering Genius | 104 |
| Coraline | 100 |
| Oblivion: Stories | 172 |
| fake_book | 287 |
+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT title , stock_quantity FROM Books WHERE stock_quantity LIKE "%__";
+-----+-----+
| title | stock_quantity |
+-----+-----+
| Lincoln In The Bardo | 1000 |
+-----+-----+
1 row in set (0.00 sec)

```

Searching for a title where you only know that in the title there is one "%" exist. So, in order to search for a wildcard like character. You may have to use escape character "\\" to get the result.

```

mysql> SELECT title FROM Books WHERE title LIKE "%\%\\%";
+-----+
| title |
+-----+
| 10% Happier |
+-----+
1 row in set (0.00 sec)

```

## # CHALLENGE TIME :

### Select All Story Collections

Titles That contain 'stories'

```

+-----+
| title |
+-----+
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| Oblivion: Stories |
+-----+

```

```
mysql> SELECT Title FROM Books WHERE title LIKE "Stories";
Empty set (0.00 sec)

mysql> SELECT Title FROM Books WHERE title LIKE "%Stories";
+-----+
| Title |
+-----+
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| Oblivion: Stories |
+-----+
3 rows in set (0.01 sec)

mysql> SELECT Title FROM Books WHERE title LIKE "%Stories%";
+-----+
| Title |
+-----+
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| Oblivion: Stories |
+-----+
3 rows in set (0.00 sec)
```