

MySQL - Selection Refining Challenge - Lecture 13

Challenge Time

Find The Longest Book

Print Out the Title and Page Count

title	pages
The Amazing Adventures of Kavalier & Clay	634

```
mysql> SELECT title , pages FROM Books ORDER BY Pages DESC LIMIT 1;
+-----+-----+
| title | pages |
+-----+-----+
| The Amazing Adventures of Kavalier & Clay |   634 |
+-----+-----+
1 row in set (0.00 sec)
```

Print a summary containing the title and year, for the 3 most recent books

summary
Lincoln In The Bardo - 2017
Norse Mythology - 2016
10% Happier - 2014

Hint: CONCAT + Order By, Limit, Aliases.

```

mysql> SELECT CONCAT_WS(" - ", title , released_year) AS Summary
-> FROM Books ORDER BY released_year DESC;
+-----+
| Summary |
+-----+
| Lincoln In The Bardo - 2017
| Norse Mythology - 2016
| 10% Happier - 2014
| The Circle - 2013
| A Hologram for the King: A Novel - 2012
| 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
+-----+
19 rows in set (0.01 sec)

mysql> SELECT CONCAT_WS(" - ", title , released_year) AS Summary
-> FROM Books ORDER BY released_year DESC LIMIT 3;
+-----+
| Summary |
+-----+
| Lincoln In The Bardo - 2017 |
| Norse Mythology - 2016 |
| 10% Happier - 2014 |
+-----+

```

```

select CONCAT(title, " - ", released_year) as Summary
FROM Books order by released_year desc limit 3;

```

Find all books with an author_lname
that contains a space(" ")

title	author_lname
Oblivion: Stories	Foster Wallace
Consider the Lobster	Foster Wallace

```
mysql> SELECT title , author_lname FROM Books WHERE author_lname LIKE "% %";
+-----+-----+
| title | author_lname |
+-----+-----+
| Oblivion: Stories | Foster Wallace |
| Consider the Lobster | Foster Wallace |
+-----+-----+
2 rows in set (0.00 sec)
```

Find The 3 Books With The Lowest Stock

Select title, year, and stock

```
+-----+-----+-----+
| title | released_year | stock_quantity |
+-----+-----+-----+
| American Gods | 2001 | 12 |
| Where I'm Calling From: Selected Stories | 1989 | 12 |
| What We Talk About When We Talk About Love: Stories | 1981 | 23 |
+-----+-----+-----+
```

- Order BY [Sorting]
- Limit

Sorting based on index representing column.

```
mysql> SELECT title , released_year , stock_quantity FROM Books ORDER BY 3 LIMIT 3;
+-----+-----+-----+
| title | released_year | stock_quantity |
+-----+-----+-----+
| Where I'm Calling From: Selected Stories | 1989 | 12 |
| American Gods | 2001 | 12 |
| What We Talk About When We Talk About Love: Stories | 1981 | 23 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

Print title and author_lname, sorted first by author_lname and then by title

```
+-----+-----+
| title | author_lname |
+-----+-----+
| What We Talk About When We Talk About Love: Stories | Carver |
| Where I'm Calling From: Selected Stories | Carver |
| The Amazing Adventures of Kavalier & Clay | Chabon |
| White Noise | DeLillo |
| A Heartbreaking Work of Staggering Genius | Eggers |
| A Hologram for the King: A Novel | Eggers |
| The Circle | Eggers |
| Consider the Lobster | Foster Wallace |
| Oblivion: Stories | Foster Wallace |
| American Gods | Gaiman |
| Coraline | Gaiman |
| Norse Mythology | Gaiman |
| 10% Happier | Harris |
| fake_book | Harris |
| Interpreter of Maladies | Lahiri |
| The Namesake | Lahiri |
| Lincoln In The Bardo | Saunders |
| Just Kids | Smith |
| Cannery Row | Steinbeck |
+-----+-----+
```

```
mysql> SELECT title , author_lname FROM Books ORDER BY 2,1;
+-----+-----+
| title | author_lname |
+-----+-----+
| What We Talk About When We Talk About Love: Stories | Carver
| Where I'm Calling From: Selected Stories | Carver
| The Amazing Adventures of Kavalier & Clay | Chabon
| White Noise | DeLillo
| A Heartbreaking Work of Staggering Genius | Eggers
| A Hologram for the King: A Novel | Eggers
| The Circle | Eggers
| Consider the Lobster | Foster Wallace
| Oblivion: Stories | Foster Wallace
| American Gods | Gaiman
| Coraline | Gaiman
| Norse Mythology | Gaiman
| 10% Happier | Harris
| fake_book | Harris
| Interpreter of Maladies | Lahiri
| The Namesake | Lahiri
| Lincoln In The Bardo | Saunders
| Just Kids | Smith
| Cannery Row | Steinbeck
+-----+-----+
19 rows in set (0.00 sec)
```

```
mysql> SELECT title , author_lname FROM Books ORDER BY author_lname , title;
+-----+-----+
| title | author_lname |
+-----+-----+
| What We Talk About When We Talk About Love: Stories | Carver
| Where I'm Calling From: Selected Stories | Carver
| The Amazing Adventures of Kavalier & Clay | Chabon
| White Noise | DeLillo
| A Heartbreaking Work of Staggering Genius | Eggers
| A Hologram for the King: A Novel | Eggers
| The Circle | Eggers
| Consider the Lobster | Foster Wallace
| Oblivion: Stories | Foster Wallace
| American Gods | Gaiman
| Coraline | Gaiman
| Norse Mythology | Gaiman
| 10% Happier | Harris
| fake_book | Harris
| Interpreter of Maladies | Lahiri
| The Namesake | Lahiri
| Lincoln In The Bardo | Saunders
| Just Kids | Smith
| Cannery Row | Steinbeck
+-----+-----+
19 rows in set (0.00 sec)
```

Make This Happen... Sorted Alphabetically By Last Name

```
+-----+
| yell
+-----+
| MY FAVORITE AUTHOR IS RAYMOND CARVER!
| MY FAVORITE AUTHOR IS RAYMOND CARVER!
| MY FAVORITE AUTHOR IS MICHAEL CHABON!
| MY FAVORITE AUTHOR IS DON DELILLO!
| MY FAVORITE AUTHOR IS DAVE EGGERS!
| MY FAVORITE AUTHOR IS DAVE EGGERS!
| MY FAVORITE AUTHOR IS DAVE EGGERS!
| MY FAVORITE AUTHOR IS DAVID FOSTER WALLACE!
| MY FAVORITE AUTHOR IS DAVID FOSTER WALLACE!
| MY FAVORITE AUTHOR IS NEIL GAIMAN!
| MY FAVORITE AUTHOR IS FREIDA HARRIS!
| MY FAVORITE AUTHOR IS DAN HARRIS!
| MY FAVORITE AUTHOR IS JHUMPA LAHIRI!
| MY FAVORITE AUTHOR IS JHUMPA LAHIRI!
| MY FAVORITE AUTHOR IS GEORGE SAUNDERS!
| MY FAVORITE AUTHOR IS PATTI SMITH!
| MY FAVORITE AUTHOR IS JOHN STEINBECK!
```

- UPPER CASE
- CONCAT
- ORDER BY
- Aliases

```
mysql> SELECT CONCAT(
-->      UPPER("My Favorite Author is ") ,
-->      UPPER(author_fname) , " " ,
-->      UPPER(author_lname) , "!")
--> FROM Books ORDER BY author_lname;
+-----+
| yell
+-----+
| MY FAVORITE AUTHOR IS RAYMOND CARVER!
| MY FAVORITE AUTHOR IS RAYMOND CARVER!
| MY FAVORITE AUTHOR IS MICHAEL CHABON!
| MY FAVORITE AUTHOR IS DON DELILLO!
| MY FAVORITE AUTHOR IS DAVE EGGERS!
| MY FAVORITE AUTHOR IS DAVE EGGERS!
| MY FAVORITE AUTHOR IS DAVE EGGERS!
| MY FAVORITE AUTHOR IS DAVID FOSTER WALLACE!
| MY FAVORITE AUTHOR IS DAVID FOSTER WALLACE!
| MY FAVORITE AUTHOR IS NEIL GAIMAN!
| MY FAVORITE AUTHOR IS DAN HARRIS!
| MY FAVORITE AUTHOR IS FREIDA HARRIS!
| MY FAVORITE AUTHOR IS JHUMPA LAHIRI!
| MY FAVORITE AUTHOR IS JHUMPA LAHIRI!
| MY FAVORITE AUTHOR IS GEORGE SAUNDERS!
| MY FAVORITE AUTHOR IS PATTI SMITH!
| MY FAVORITE AUTHOR IS JOHN STEINBECK!
```

```
mysql> SELECT UPPER(
-->      CONCAT("My Favorite Author is " ,
-->              author_fname , " " , author_lname , "!")
-->      ) AS yell
--> FROM Books
--> ORDER BY author_lname;
+-----+
| yell
+-----+
| MY FAVORITE AUTHOR IS RAYMOND CARVER!
| MY FAVORITE AUTHOR IS RAYMOND CARVER!
| MY FAVORITE AUTHOR IS MICHAEL CHABON!
| MY FAVORITE AUTHOR IS DON DELILLO!
| MY FAVORITE AUTHOR IS DAVE EGGERS!
| MY FAVORITE AUTHOR IS DAVE EGGERS!
| MY FAVORITE AUTHOR IS DAVE EGGERS!
| MY FAVORITE AUTHOR IS DAVID FOSTER WALLACE!
| MY FAVORITE AUTHOR IS DAVID FOSTER WALLACE!
| MY FAVORITE AUTHOR IS NEIL GAIMAN!
| MY FAVORITE AUTHOR IS DAN HARRIS!
| MY FAVORITE AUTHOR IS FREIDA HARRIS!
| MY FAVORITE AUTHOR IS JHUMPA LAHIRI!
| MY FAVORITE AUTHOR IS JHUMPA LAHIRI!
| MY FAVORITE AUTHOR IS GEORGE SAUNDERS!
| MY FAVORITE AUTHOR IS PATTI SMITH!
| MY FAVORITE AUTHOR IS JOHN STEINBECK!
```