

MySQL - Selection Refining - p1 - Lecture 11

`INSERT INTO books`

```
(title, author_fname, author_lname, released_year, stock_quantity, pages)
VALUES ('10% Happier', 'Dan', 'Harris', 2014, 29, 256),
       ('fake_book', 'Freida', 'Harris', 2001, 287, 428),
       ('Lincoln In The Bardo', 'George', 'Saunders', 2017, 1000, 367);
```

<https://codeshare.io/0gy18m>

```
mysql> INSERT INTO books
->     (title, author_fname, author_lname, released_year, stock_quantity, pages)
->     VALUES ('10% Happier', 'Dan', 'Harris', 2014, 29, 256),
->             ('fake_book', 'Freida', 'Harris', 2001, 287, 428),
->             ('Lincoln In The Bardo', 'George', 'Saunders', 2017, 1000, 367);
Query OK, 3 rows affected (0.03 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

`mysql> SELECT * FROM Books;`

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
11	What We Talk About When We Talk About Love: Stories	Raymond	Carver	1981	23	176
12	Where I'm Calling From: Selected Stories	Raymond	Carver	1989	12	526
13	White Noise	Don	DeLillo	1985	49	320
14	Cannery Row	John	Steinbeck	1945	95	181
15	Oblivion: Stories	David	Foster Wallace	2004	172	329
16	Consider the Lobster	David	Foster Wallace	2005	92	343
17	10% Happier	Dan	Harris	2014	29	256
18	fake_book	Freida	Harris	2001	287	428
19	Lincoln In The Bardo	George	Saunders	2017	1000	367

19 rows in set (0.00 sec)

DISTINCT - It provides the unique value from a particular column;

```
mysql> SELECT DISTINCT released_year FROM Books;
+-----+
| released_year |
+-----+
| 2003          |
| 2016          |
| 2001          |
| 1996          |
| 2012          |
| 2013          |
| 2000          |
| 2010          |
| 1981          |
| 1989          |
| 1985          |
| 1945          |
| 2004          |
| 2005          |
| 2014          |
| 2017          |
+-----+
16 rows in set (0.00 sec)
```

```
mysql> SELECT DISTINCT author_lname FROM Books;
+-----+
| author_lname |
+-----+
| Lahiri      |
| Gaiman      |
| Eggers      |
| Chabon      |
| Smith       |
| Carver      |
| DeLillo     |
| Steinbeck   |
| Foster Wallace |
| Harris      |
| Saunders    |
+-----+
11 rows in set (0.00 sec)
```

```
mysql> SELECT DISTINCT author_fname FROM Books;
+-----+
| author_fname |
+-----+
| Jhumpa
| Neil
| Dave
| Michael
| Patti
| Raymond
| Don
| John
| David
| Dan
| Freida
| George
+-----+
```

```
mysql> SELECT DISTINCT CONCAT(author_fname , " " , author_lname) as FullName FROM Books;
+-----+
| FullName
+-----+
| Jhumpa Lahiri
| Neil Gaiman
| Dave Eggers
| Michael Chabon
| Patti Smith
| Raymond Carver
| Don DeLillo
| John Steinbeck
| David Foster Wallace
| Dan Harris
| Freida Harris
| George Saunders
+-----+
12 rows in set (0.00 sec)
```

ORDER BY

It used for sorting the particular column either in ascending or descending order.

```
mysql> SELECT DISTINCT author_lname FROM BOOKS ORDER BY author_lname;
+-----+
| author_lname |
+-----+
| Carver
| Chabon
| DeLillo
| Eggers
| Foster Wallace
| Gaiman
| Harris
| Lahiri
| Saunders
| Smith
| Steinbeck
+-----+
11 rows in set (0.00 sec)
```

ASC - Ascending [Default]
DESC - Descending

```
mysql> SELECT DISTINCT author_lname FROM BOOKS ORDER BY author_lname DESC;
+-----+
| author_lname |
+-----+
| Steinbeck   |
| Smith       |
| Saunders    |
| Lahiri      |
| Harris      |
| Gaiman      |
| Foster Wallace |
| Eggers      |
| DeLillo     |
| Chabon      |
| Carver      |
+-----+
11 rows in set (0.00 sec)
```

```
mysql> SELECT Title , Released_year FROM Books ORDER BY Released_year;
+-----+-----+
| Title          | Released_year |
+-----+-----+
| Cannery Row    | 1945          |
| What We Talk About When We Talk About Love: Stories | 1981          |
| White Noise    | 1985          |
| Where I'm Calling From: Selected Stories | 1989          |
| Interpreter of Maladies | 1996          |
| The Amazing Adventures of Kavalier & Clay | 2000          |
| American Gods   | 2001          |
| A Heartbreaking Work of Staggering Genius | 2001          |
| fake_book       | 2001          |
| The Namesake    | 2003          |
| Coraline        | 2003          |
| Oblivion: Stories | 2004          |
| Consider the Lobster | 2005          |
| Just Kids       | 2010          |
| A Hologram for the King: A Novel | 2012          |
| The Circle       | 2013          |
| 10% Happier     | 2014          |
| Norse Mythology  | 2016          |
| Lincoln In The Bardo | 2017          |
+-----+-----+
19 rows in set (0.00 sec)
```

1 2

```
mysql> SELECT Title , Released_year FROM Books ORDER BY Released_year DESC;
+-----+-----+
| 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          |
| 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 (0.00 sec)
```

```
mysql> SELECT Title , Released_year FROM Books ORDER BY 2 DESC;
+-----+-----+
| 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 |
| 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 (0.00 sec)
```

1st priority = released_year,
2nd priority = title.

```
mysql> SELECT Title , Released_year FROM Books ORDER BY 2 , 1 DESC;
+-----+-----+
| Title | Released_year |
+-----+-----+
| Cannery Row | 1945 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| White Noise | 1985 |
| Where I'm Calling From: Selected Stories | 1989 |
| Interpreter of Maladies | 1996 |
| The Amazing Adventures of Kavalier & Clay | 2000 |
| fake_book | 2001 |
| American Gods | 2001 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| The Namesake | 2003 |
| Coraline | 2003 |
| Oblivion: Stories | 2004 |
| Consider the Lobster | 2005 |
| Just Kids | 2010 |
| A Hologram for the King: A Novel | 2012 |
| The Circle | 2013 |
| 10% Happier | 2014 |
| Norse Mythology | 2016 |
| Lincoln In The Bardo | 2017 |
+-----+-----+
19 rows in set (0.00 sec)
```

```
mysql> SELECT Title , Released_year FROM Books ORDER BY 2 DESC , 1 DESC;
+-----+-----+
| 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 |
| Just Kids | 2010 |
| Consider the Lobster | 2005 |
| Oblivion: Stories | 2004 |
| The Namesake | 2003 |
| Coraline | 2003 |
| fake_book | 2001 |
| American Gods | 2001 |
| A Heartbreaking Work of Staggering Genius | 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 (0.00 sec)
```

1 2 3

```
mysql> SELECT title, author_fname, author_lname
-> FROM books ORDER BY 2;
```

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

19 rows in set (0.00 sec)

```
mysql> SELECT title, author_fname, author_lname FROM Books ORDER BY author_lname , author_fname;
```

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

19 rows in set (0.00 sec)

```
mysql> SELECT title, author_fname, author_lname FROM Books ORDER BY 3,2;
```

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

19 rows in set (0.00 sec)