

Logical Operator - SQL Session - 8

08 July 2024 14:28

Logical Operators - SQL Session 8

- Not Equal (\neq)

```
mysql> SELECT title FROM Books WHERE released_year != 2017;
+-----+
| title |
+-----+
| The Namesake |
| Norse Mythology |
| American Gods |
| Interpreter of Maladies |
| A Hologram for the King: A Novel |
| The Circle |
| The Amazing Adventures of Kavalier & Clay |
| Just Kids |
| A Heartbreaking Work of Staggering Genius |
| Coraline |
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| White Noise |
| Cannery Row |
| Oblivion: Stories |
| Consider the Lobster |
| 10% Happier |
| fake_book |
+-----+
18 rows in set (0.00 sec)
```

NOT LIKE :

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

mysql> SELECT title FROM Books
-> WHERE title NOT Like "W%";
+-----+
| title |
+-----+
| The Namesake |
| Norse Mythology |
| American Gods |
| Interpreter of Maladies |
| A Hologram for the King: A Novel |
| The Circle |
| The Amazing Adventures of Kavalier & Clay |
| Just Kids |
| A Heartbreaking Work of Staggering Genius |
| Coraline |
| Cannery Row |
| Oblivion: Stories |
| Consider the Lobster |
| 10% Happier |
| fake_book |
| Lincoln In The Bardo |
+-----+
```

GREATER THAN :

```
mysql> SELECT * FROM books
WHERE released_year > 2000;
+-----+-----+-----+-----+-----+-----+-----+
| 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 | 2001 | 14 | 304 |
| 3 | American Gods | Neil | Gaiman | 2001 | 12 | 465 |
| 4 | A Hologram for the King: A Novel | Don | DeLillo | 2001 | 14 | 530 |
| 5 | The Circle | Dave | Eggers | 2013 | 26 | 504 |
| 6 | The Amazing Adventures of Kavalier & Clay | Michael | Chabon | 2000 | 26 | 607 |
| 7 | Just Kids | Neil | Gaiman | 2010 | 55 | 386 |
| 8 | A Heartbreaking Work of Staggering Genius | Dave | Eggers | 2001 | 104 | 437 |
| 9 | Coraline | Neil | Gaiman | 2003 | 100 | 268 |
| 10 | Oblivion: Stories | David | Foster Wallace | 2005 | 92 | 343 |
| 11 | Consider the Lobster | David | Foster Wallace | 2005 | 92 | 343 |
| 12 | 10% Happier | David | Foster Wallace | 2005 | 22 | 248 |
| 13 | fake_book | Freida | Harris | 2001 | 287 | 428 |
| 14 | Lincoln In The Bardo | George | Saunders | 2017 | 1800 | 367 |
+-----+-----+-----+-----+-----+-----+-----+
13 rows in set (0.01 sec)
```

```
mysql> SELECT * FROM books
-> WHERE released_year >= 2000;
+-----+-----+-----+-----+-----+-----+-----+
| 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 | 2001 | 12 | 465 |
| 3 | American Gods | Neil | Gaiman | 2001 | 12 | 465 |
| 4 | A Hologram for the King: A Novel | Don | DeLillo | 2001 | 14 | 530 |
| 5 | The Circle | Dave | Eggers | 2013 | 26 | 504 |
| 6 | The Amazing Adventures of Kavalier & Clay | Michael | Chabon | 2000 | 26 | 607 |
| 7 | Just Kids | Neil | Gaiman | 2010 | 55 | 386 |
| 8 | A Heartbreaking Work of Staggering Genius | Dave | Eggers | 2001 | 104 | 437 |
| 9 | Coraline | Neil | Gaiman | 2003 | 100 | 268 |
| 10 | Oblivion: Stories | David | Foster Wallace | 2005 | 92 | 343 |
| 11 | Consider the Lobster | David | Foster Wallace | 2005 | 22 | 248 |
| 12 | 10% Happier | David | Foster Wallace | 2005 | 92 | 343 |
| 13 | fake_book | Freida | Harris | 2001 | 287 | 428 |
| 14 | Lincoln In The Bardo | George | Saunders | 2017 | 1800 | 367 |
+-----+-----+-----+-----+-----+-----+-----+
14 rows in set (0.00 sec)

mysql> SELECT * FROM books
-> WHERE released_year <= 2000;
+-----+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+-----+-----+-----+-----+-----+-----+
| 4 | Interpreter of Maladies | Jhumpa | Lahiri | 1996 | 97 | 198 |
| 5 | The Namesake | Jhumpa | Lahiri | 2003 | 32 | 291 |
| 6 | The Circle | Michael | Chabon | 2013 | 23 | 176 |
| 7 | Just Kids | Neil | Gaiman | 2010 | 53 | 376 |
| 8 | A Heartbreaking Work of Staggering Genius | Dave | Eggers | 2001 | 104 | 437 |
| 9 | Coraline | Neil | Gaiman | 2003 | 100 | 268 |
| 10 | Oblivion: Stories | David | Foster Wallace | 2005 | 92 | 343 |
| 11 | Consider the Lobster | David | Foster Wallace | 2005 | 22 | 248 |
| 12 | 10% Happier | David | Foster Wallace | 2005 | 92 | 343 |
| 13 | fake_book | Freida | Harris | 2001 | 287 | 428 |
| 14 | Cannery Row | John | Steinbeck | 1930 | 95 | 181 |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

AND LOGIC :

SELECT books written
by Dave Eggers,
published after the
year 2010

```
SELECT * FROM books
WHERE author_lname='Eggers';
```

AND

```
SELECT * FROM books
WHERE released_year > 2010;
```



SELECT * FROM books

```

    WHERE released_year > 2010;

```

↓

```

SELECT * FROM books
WHERE author_lname='Eggers' AND
released_year > 2010;

```

```

mysql> SELECT * FROM books
-> WHERE author_lname='Eggers' AND
-> released_year > 2010;
+----+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+----+-----+-----+-----+-----+-----+-----+
| 2 | A Hologram for the King: A Novel | Dave | Eggers | 2012 | 154 | 352 |
| 6 | The Circle | Dave | Eggers | 2013 | 26 | 504 |
+----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> SELECT title FROM books where CONCAT(author_fname , author_lname) = "DaveEggers" AND released_year > 2010;
+-----+
| title |
+-----+
| A Hologram for the King: A Novel |
| The Circle |
+-----+

mysql> SELECT * FROM books
WHERE author_lname='Eggers' AND
released_year > 2010 AND
title LIKE '%novels%';
+----+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+----+-----+-----+-----+-----+-----+-----+
| 5 | A Hologram for the King: A Novel | Dave | Eggers | 2012 | 154 | 352 |
+----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

OR Logic :

```

SELECT * FROM books
WHERE author_lname='Eggers' OR
released_year > 2010;

```

```

mysql> SELECT * FROM books
-> WHERE author_lname='Eggers' OR
-> released_year > 2010;
+----+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+----+-----+-----+-----+-----+-----+-----+
| 2 | Norse Mythology | Neil | Gaiman | 2016 | 43 | 304 |
| 5 | A Hologram for the King: A Novel | Dave | Eggers | 2012 | 154 | 352 |
| 6 | The Circle | Dave | Eggers | 2013 | 26 | 504 |
| 9 | Oblivion: Stories | Dan | Harris | 2001 | 194 | 437 |
| 23 | A Heartbreaking Work of Staggering Genius | Dave | Eggers | 2005 | 29 | 256 |
| 25 | Consider the Lobster | Dan | Harris | 2011 | 1980 | 367 |
| 26 | 10% Happier | Dan | Harris | 2014 | 29 | 256 |
| 28 | Lincoln In The Bardo | George | Saunders | 2017 | 1980 | 367 |
+----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

BETWEEN :

Select all books published between 2004 and 2015

```

mysql> SELECT title ,released_year FROM Books where released_year >= 2004 AND released_year <=2015;
+-----+-----+
| title | released_year |
+-----+-----+
| A Hologram for the King: A Novel | 2012 |
| The Circle | 2013 |
| Just Kids | 2010 |
| Oblivion: Stories | 2006 |
| Consider the Lobster | 2005 |
| 10% Happier | 2014 |
+-----+-----+
6 rows in set (0.00 sec)

mysql> SELECT title ,released_year FROM Books where released_year BETWEEN 2004 AND 2015;
+-----+-----+
| title | released_year |
+-----+-----+
| A Hologram for the King: A Novel | 2012 |
| The Circle | 2013 |
| Just Kids | 2010 |
| Oblivion: Stories | 2006 |
| Consider the Lobster | 2005 |
| 10% Happier | 2014 |
+-----+-----+
6 rows in set (0.01 sec)

```

NOT BETWEEN :

NOT BETWEEN x AND y

```

SELECT title, released_year FROM books
WHERE released_year NOT BETWEEN 2004 AND 2015;

```

```

mysql> SELECT title, released_year FROM books
WHERE released_year NOT BETWEEN 2004 AND 2015;
+-----+-----+
| title | released_year |
+-----+-----+
| The Namesake | 2003 |
| Norse Mythology | 2016 |
| American Gods | 2001 |
| The Water Knife | 1995 |
| The Amazing Adventures of Kavalier & Clay | 1999 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| Coraline | 2003 |
| What We Talk About When We Talk About Love: Stories | 1991 |
| Where I'm Calling From: Selected Stories | 1989 |
| White Noise | 1985 |
| Cannery Row | 1945 |
| Farm | 2011 |
| Lincoln In The Bardo | 2017 |
+-----+-----+
13 rows in set (0.00 sec)

```

MULTIPLE "OR" can easily be replaced by "IN" operator if we have call a particular column for the filtration.

We Can Already Do This

```

SELECT title, author_lname FROM books
WHERE author_lname='Carver' OR
author_lname='Lahiri' OR

```

We Can Already Do This

```
SELECT title, author_lname FROM books
WHERE author_lname='Carver' OR
author_lname='Lahiri' OR
author_lname='Smith';
```

SO MUCH SHORTER!

```
SELECT title, author_lname FROM books
WHERE author_lname IN ('Carver', 'Lahiri', 'Smith');
```

```
mysql> SELECT title, author_lname FROM books
-- WHERE author_lname='Carver' OR
-- > author_lname='Lahiri' OR
-- > author_lname='Smith';
+-----+-----+
| title | author_lname |
+-----+-----+
| The Namesake | Lahiri |
| Interpreter of Maladies | Lahiri |
| Just Kids | Smith |
| What We Talk About When We Talk About Love: Stories | Carver |
| Where I'm Calling From: Selected Stories | Carver |
+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT title, author_lname FROM books
-- > WHERE author.lname IN ('Carver', 'Lahiri', 'Smith');
+-----+-----+
| title | author_lname |
+-----+-----+
| The Namesake | Lahiri |
| Interpreter of Maladies | Lahiri |
| Just Kids | Smith |
| What We Talk About When We Talk About Love: Stories | Carver |
| Where I'm Calling From: Selected Stories | Carver |
+-----+-----+
5 rows in set (0.00 sec)
```

NOT IN LOGIC :



```
mysql> SELECT title, released_year FROM books
-- WHERE released_year = 2000 AND
-- > released_year = 2001 AND
-- > released_year = 2004 AND
-- > released_year = 2006 AND
-- > released_year = 2008 AND
-- > released_year = 2010 AND
-- > released_year = 2012 AND
-- > released_year = 2014 AND
-- > released_year = 2016;
+-----+-----+
| title | released_year |
+-----+-----+
| The Namesake | 2003 |
| American Gods | 2001 |
| Interpreter of Maladies | 1996 |
| Just Kids | 2001 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| Coraline | 2003 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| Where I'm Calling From: Selected Stories | 1989 |
| White Noise | 1985 |
| Cannery Row | 1945 |
| Consider the Lobster | 2005 |
| fake_book | 2001 |
| Lincoln In The Bardo | 2017 |
+-----+-----+
13 rows in set (0.00 sec)

mysql> SELECT title, released_year FROM books
-- > WHERE released_year NOT IN
-- > (2000,2002,2004,2006,2008,2010,2012,2014,2016);
+-----+-----+
| title | released_year |
+-----+-----+
| The Namesake | 2003 |
| American Gods | 2001 |
| Interpreter of Maladies | 1996 |
| The Circle | 2013 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| Coraline | 2003 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| Where I'm Calling From: Selected Stories | 1989 |
| White Noise | 1985 |
| Cannery Row | 1945 |
| Consider the Lobster | 2005 |
| fake_book | 2001 |
| Lincoln In The Bardo | 2017 |
+-----+-----+
13 rows in set (0.00 sec)
```

USE OF MODULO (%) to get the result :

```
mysql> SELECT title, released_year FROM books
-- > WHERE released_year = 2000
-- > AND released_year NOT IN
-- > (2000,2002,2004,2006,2008,2010,2012,2014,2016);
+-----+-----+
| title | released_year |
+-----+-----+
| The Namesake | 2003 |
| American Gods | 2001 |
| Just Kids | 2003 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| Coraline | 2003 |
| Consider the Lobster | 2005 |
| fake_book | 2001 |
| Lincoln In The Bardo | 2017 |
+-----+-----+
8 rows in set (0.00 sec)

mysql> SELECT title, released_year FROM books
-- > WHERE released_year > 2000 AND
-- > released_year % 2 != 0;
+-----+-----+
| title | released_year |
+-----+-----+
| The Namesake | 2003 |
| American Gods | 2001 |
| The Circle | 2013 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| Coraline | 2003 |
| Consider the Lobster | 2005 |
| fake_book | 2001 |
| Lincoln In The Bardo | 2017 |
+-----+-----+
```

CASE STATEMENT :

helps to create a new column in a particular table.
View only command;

title	released_year	GENRE
The Namesake	2003	Modern Lit
Norse Mythology	2016	Modern Lit
American Gods	2001	Modern Lit
Interpreter of Maladies	1996	20th Century Lit
A Hologram for the King: A Novel	2012	Modern Lit
The Circle	2013	Modern Lit
A Heartbreaking Work of Staggering Genius	2000	Modern Lit
Coraline	2010	Modern Lit
Just Kids	2001	Modern Lit
What We Talk About When We Talk About Love: Stories	1981	20th Century Lit
Where I'm Calling From: Selected Stories	1989	20th Century Lit

A Hologram for the King: A Novel	KU12	Modern Lit
The Circle	2013	Modern Lit
The Amazing Adventures of Kavalier & Clay	2000	Modern Lit
Just Kids	2010	Modern Lit
A Heartbreaking Work of Staggering Genius	2001	Modern Lit
Coraline	2003	Modern Lit
What We Talk About When We Talk About Love: Stories	1981	20th Century Lit
Where I'm Calling From: Selected Stories	1989	20th Century Lit
White Noise	1985	20th Century Lit
Cannery Row	1945	20th Century Lit
Oblivion: Stories	2014	Modern Lit
Consider the Lobster	2005	Modern Lit
10% Happier	2014	Modern Lit
fake book	2001	Modern Lit
Lincoln In The Bardo	2017	Modern Lit

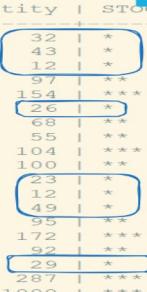
```
SELECT title, released_year,
CASE
    WHEN released_year >= 2000 THEN 'Modern Lit'
    ELSE '20th Century Lit'
END AS GENRE
FROM books;
```

```
mysql> SELECT title, released_year,
->     CASE
->         WHEN released_year >=2000 THEN 'Modern Lit'
->         ELSE '20th Century Lit'
->     END as Genre
-> FROM Books;
```

title	released_year	Genre
The Namesake	2003	Modern Lit
Norse Mythology	2016	Modern Lit
American Gods	2014	Modern Lit
Interpreter of Maladies	1996	20th Century Lit
A Hologram for the King: A Novel	2012	Modern Lit
The Circle	2015	Modern Lit
The Amazing Adventures of Kavalier & Clay	2000	Modern Lit
Just Kids	2010	Modern Lit
A Heartbreaking Work of Staggering Genius	2001	Modern Lit
Coraline	2002	Modern Lit
What We Talk About When We Talk About Love: Stories	1981	20th Century Lit
Where I'm Calling From: Selected Stories	1989	20th Century Lit
White Noise	1985	20th Century Lit
Cannery Row	1945	20th Century Lit
Oblivion: Stories	2004	Modern Lit
Consider the Lobster	2005	Modern Lit
10% Happier	2014	Modern Lit
fake book	2001	Modern Lit
Lincoln In The Bardo	2017	Modern Lit

19 rows in set (0.00 sec)

```
+-----+-----+
| title |
+-----+
| The Namesake
| Norse Mythology
| American Gods
| Interpreter of Maladies
| A Hologram for the King: A Novel
| The Circle
| The Amazing Adventures of Kavalier & Clay
| Just Kids
| A Heartbreaking Work of Staggering Genius
| Coraline
| What We Talk About When We Talk About Love: Stories
| Where I'm Calling From: Selected Stories
| White Noise
| Cannery Row
| Oblivion: Stories
| Consider the Lobster
| 10% Happier
| fake book
| Lincoln In The Bardo
+-----+
```



```
mysql> SELECT title, stock_quantity,
->     CASE
->         WHEN stock_quantity >=0 AND stock_quantity <=50 THEN '**'
->         WHEN stock_quantity >=51 AND stock_quantity <=100 THEN '***'
->         ELSE '****'
->     END AS STOCK
-> FROM books;
```

title	stock_quantity	STOCK
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	65	**
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,
->     CASE
->         WHEN stock_quantity BETWEEN 0 AND 50 THEN '**'
->         WHEN stock_quantity BETWEEN 51 AND 100 THEN '***'
->         ELSE '****'
->     END AS STOCK
-> FROM books;
```

title	stock_quantity	STOCK
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	65	**
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,
->     CASE
->         WHEN stock_quantity <= 50 THEN '**'
->         WHEN stock_quantity >= 100 THEN '***'
->         ELSE '****'
->     END AS STOCK
-> FROM books;
```

title	stock_quantity	STOCK
The Namesake	32	*

```

--> CASE
--> WHEN stock_quantity <= 50 THEN '*'
--> WHEN stock_quantity <= 100 THEN '**'
--> ELSE '***'
--> END AS STOCK
--> FROM books;
+-----+-----+-----+
| title | stock_quantity | STOCK |
+-----+-----+-----+
| The Namesake | 32 | * |
| Native Methodology | 47 | * |
| American Gods | 12 | * |
| Interpreter of Maladies | 97 | ** |
| A Hologram for the King: A Novel | 154 | *** |
| The Lazarus Project | 24 | * |
| The Amazing Adventures of Kavalier & Clay | 68 | ** |
| Just Kids | 55 | ** |
| A Heartbreaking Work of Staggering Genius | 104 | *** |
| Coraline | 160 | *** |
| 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 | *** |
| The Lobster | 52 | * |
| 10% Happier | 29 | * |
| fake_book | 287 | *** |
| Lincoln In The Bardo | 1000 | *** |
+-----+-----+-----+
19 rows in set (0.00 sec)

```

QUICK CHALLENGE :

Select All Books Written Before 1980 (non inclusive)

```

mysql> SELECT * FROM Books WHERE released_year < 1980;
+-----+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+-----+-----+-----+-----+-----+-----+
| 14 | Cannery Row | John | Steinbeck | 1945 | 95 | 181 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

Select All Books Written By Eggers Or Chabon

```

mysql> SELECT * FROM BOOKS WHERE author_lname = "Eggers" OR author_lname = "Chabon";
+-----+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+-----+-----+-----+-----+-----+-----+
| 5 | A Hologram for the King: A Novel | Dave | Eggers | 2012 | 154 | 352 |
| 6 | The Lazarus Project | Dave | Eggers | 2010 | 24 | 804 |
| 7 | The Amazing Adventures of Kavalier & Clay | Michael | Chabon | 2000 | 68 | 634 |
| 9 | A Heartbreaking Work of Staggering Genius | Dave | Eggers | 2001 | 104 | 437 |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> SELECT * FROM BOOKS WHERE author_lname in ('Eggers', 'Chabon');
+-----+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+-----+-----+-----+-----+-----+-----+
| 5 | A Hologram for the King: A Novel | Dave | Eggers | 2012 | 154 | 352 |
| 6 | The Lazarus Project | Dave | Eggers | 2010 | 24 | 804 |
| 7 | The Amazing Adventures of Kavalier & Clay | Michael | Chabon | 2000 | 68 | 634 |
| 9 | A Heartbreaking Work of Staggering Genius | Dave | Eggers | 2001 | 104 | 437 |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

Select All Books Written By Lahiri, Published after 2000

```

mysql> SELECT * FROM Books WHERE author_lname = "Lahiri" AND released_year > 2000;
+-----+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | The Namesake | Jhumpa | Lahiri | 2003 | 32 | 291 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

Select All books with page counts between 100 and 200

```

mysql> SELECT * FROM books where pages between 100 AND 200;
+-----+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+-----+-----+-----+-----+-----+-----+
| 4 | Interpreter of Maladies | Jhumpa | Lahiri | 1996 | 97 | 198 |
| 11 | What We Talk About When We Talk About Love: Stories | Raymond | Carver | 1981 | 24 | 156 |
| 14 | Cannery Row | John | Steinbeck | 1945 | 95 | 181 |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

Select all books where author_lname starts with a 'C' or an 'S'

```

mysql> SELECT * FROM books where author_lname LIKE "C%" OR author_lname LIKE "S%";
+-----+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+-----+-----+-----+-----+-----+-----+
| 7 | The Amazing Adventures of Kavalier & Clay | Michael | Chabon | 2000 | 68 | 634 |
| 8 | Just Kids | Patti | Smith | 2010 | 55 | 304 |
| 11 | What We Talk About When We Talk About Love: Stories | Raymond | Carver | 1981 | 24 | 156 |
| 12 | Where I'm Calling From: Selected Stories | Raymond | Carver | 1989 | 12 | 526 |
| 14 | Cannery Row | John | Steinbeck | 1945 | 95 | 181 |
| 25 | Lincoln In The Bardo | George | Saunders | 2017 | 1000 | 367 |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

If title contains 'stories' -> Short Stories
 Just Kids and A Heartbreaking Work -> Memoir
 Everything Else -> Novel

title	author_lname	TYPE
The Namesake	Lahiri	Novel

Just Kids and A Heartbreaking Work -> Memoir
 Everything Else -> Novel

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

```
mysql> SELECT title , author_lname ,
-> CASE
-> WHEN title LIKE "%stories%" THEN 'Short Stories'
-> WHEN title = "Just Kids" OR title = "A Heartbreaking Work of Staggering Genius" THEN "Memoir"
-> ELSE "Novel"
-> END as TYPE
-> FROM Books;
```

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

author_fname	author_lname	COUNT
Jhumpa	Lahiri	2 books
Neil	Gaiman	3 books
Dave	Eggers	3 books
Michael	Chabon	1 book
Patti	Smith	1 book
Raymond	Carver	2 books
Don	DeLillo	1 book
John	Steinbeck	1 book
David	Foster Wallace	2 books
Dan	Harris	1 book
Freida	Harris	1 book
George	Saunders	1 book

```
mysql> SELECT
->     author_fname , author_lname ,
->     CASE
->         WHEN Count(*) = 1 THEN '1 book'
->         ELSE CONCAT(Count(*) , ' books')
->     END as COUNT
->   FROM Books
->  GROUP BY author_fname , author_lname;
+-----+-----+-----+
| author_fname | author_lname | COUNT |
+-----+-----+-----+
| Jhumpa      | Lahiri      | 2 books|
| Neil        | Gaiman      | 3 books|
| Dave        | Eggers      | 3 books|
| Michael     | Chabon      | 1 book |
| Patti        | Smith       | 1 book |
| Raymond     | Carver      | 2 books|
| Don          | DeLillo     | 1 book |
| John          | Steinbeck   | 1 book |
| David        | Foster Wallace| 2 books|
| Dan          | Harris      | 1 book |
| Freida       | Harris      | 1 book |
| George       | Saunders    | 1 book |
+-----+-----+-----+
12 rows in set (0.00 sec)
```