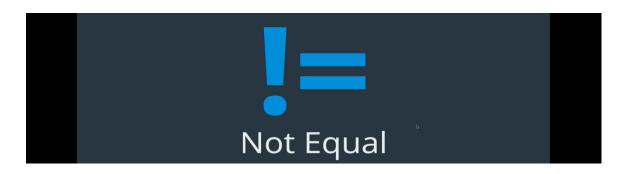
Lesson 11- the power of logical operators

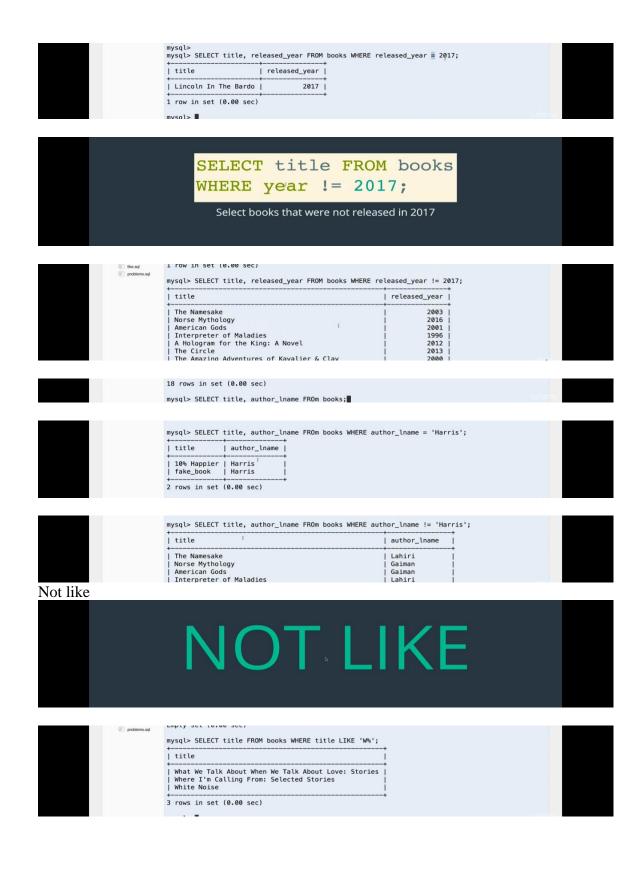
- 1- Not equal
- 2- Not like
- 3- Greater than
- 4- Less than
- 5- Logical And
- 6- Logical OR
- 7- Between
- 8- In and not in
- 9- Case statement
- 10-Logical operators exercise
- 11-Logical operator exercise solution

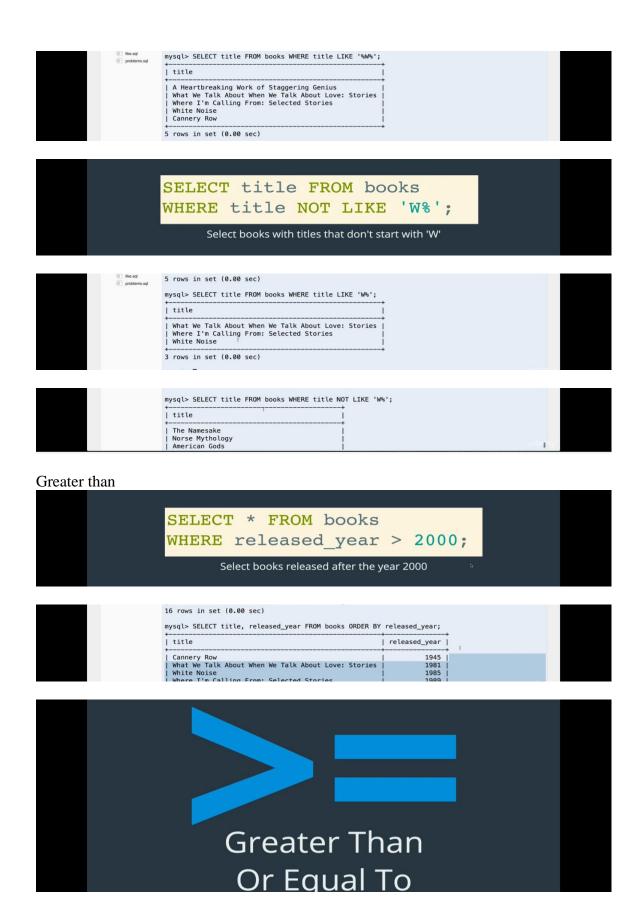
Logical operators

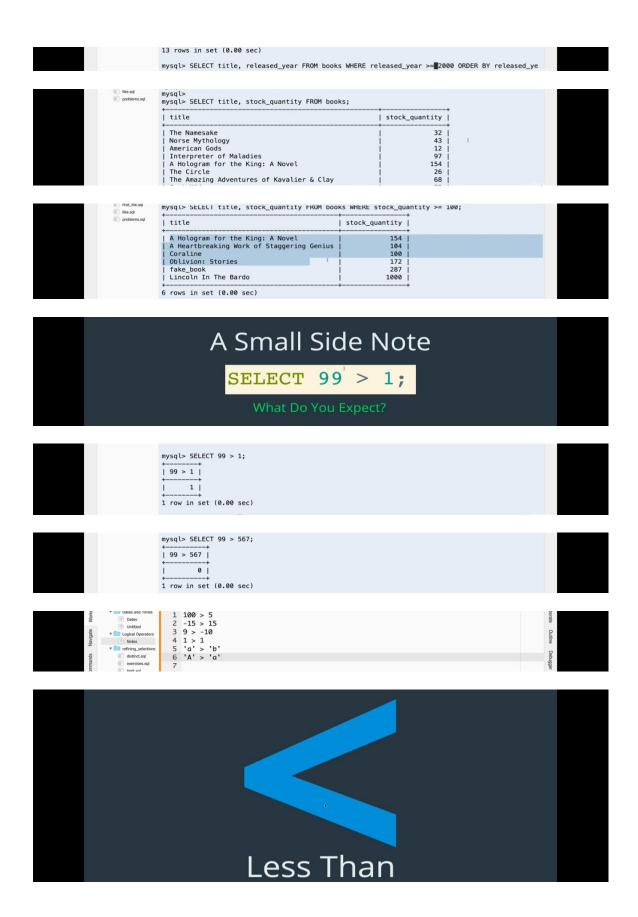
Not equal mysql> SELECT title, released_year FROM books WHERE released_year = 2017; | released_year | | Lincoln In The Bardo | 2017 | 1 row in set (0.00 sec) "Select all birthdays between 1990 and 1992"

"Select all items that are in stock AND priced below \$19.99"





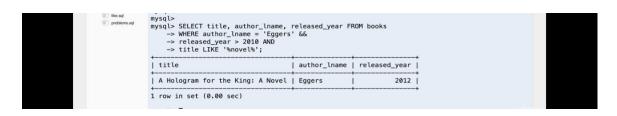




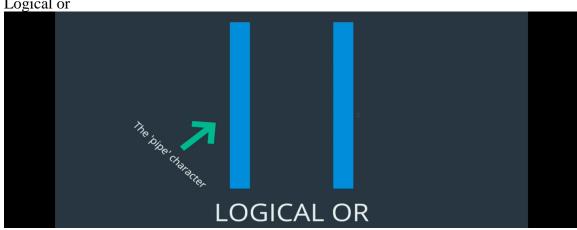


SELECT books written by Dave Eggers, published after the year 2010

```
SELECT * FROM books
                  WHERE author lname='Eggers';
                  SELECT * FROM books
                  WHERE released year > 2010;
                  SELECT * FROM books
                  WHERE author_lname='Eggers';
                              AND
                  SELECT * FROM books
                  WHERE released_year > 2010;
                SELECT * FROM books
                WHERE author_lname='Eggers' AND
                released_year > 2010;
          | author_lname | released_year |
           A Hologram for the King: A Novel | Eggers
The Circle | Eggers
A Heartbreaking Work of Staggering Genius | Eggers
                                                   2013
          3 rows in set (0.00 sec)
          | author_lname | released_year |
           A Hologram for the King: A Novel | Eggers
The Circle | Eggers
          2 rows in set (0.00 sec)
SELECT * FROM books
            WHERE author lname='Eggers' AND
            released_year > 2010 AND
            title LIKE '%novel%';
```



Logical or







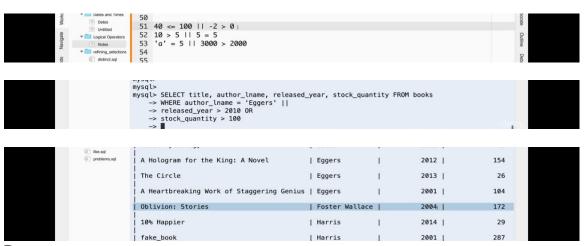
roblems.sql	title	author_lname	released_year
	Norse Mythology	Gaiman	2016
	A Hologram for the King: A Novel	Eggers	2012
	The Circle	Eggers	2013
	A Heartbreaking Work of Staggering Genius	Eggers	2001
	10% Happier	Harris	2014
	Lincoln In The Bardo	Saunders	2017

Condition 1 && Condition 2

BOTH SIDES MUST BE TRUE



ONLY ONE SIDE MUST BE TRUE



Between

How can we accomplish the same thing using what we already know?

Select all books published between 2004 and 2015

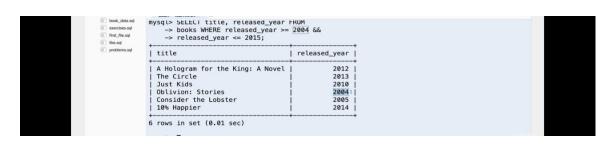
USE LOGICAL AND!

SELECT title, released_year FROM
books WHERE released_year >= 2004 &&
released_year <= 2015;</pre>

Command

SELECT title, released year FROM books;





BETWEEN x AND y

SELECT title, released_year FROM books
WHERE released_year BETWEEN 2004 AND 2015;

cocrdices.ad mysql> SELECT title, released	EEN 2004 AND 2015;
problems.sql title	released_year
A Hologram for the King: A No	vel 2012
The Circle	2013
Just Kids	2010
Oblivion: Stories	2004
Consider the Lobster	2005
10% Happier	2014

NOT BETWEEN

NOT BETWEEN x AND y

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

6	ilmit.sql	72 72 SELECT title, released_year FROM books 73 WHERE released_year NOT BETWEEN 2004 AND 2015;	73:47 Text Spaces: 4 🗱		
Cast					
		mysql> select Cast('2017-05-02' AS DATETIME);			
		CAST('2017-05-02' AS DATETIME)			
		2017-05-02 00:00:00			
		1 row in set (0.00 sec)			



```
SELECT title, stock_quantity,
                                                                                                         CASE

WHEN stock_quantity BETWEEN 0 AND 50 THEN '*'

WHEN stock_quantity BETWEEN 51 AND 100 THEN '**'

LISE '***'
                                                                                                            END AS STOCK
                                                                                      FROM books;
                                                                         125
127 SELECT title, stock_quantity,
128 CASE
129 WHEN stock_quantity BETWEEN 0 AND 50 THEN '*'
130 WHEN stock_quantity BETWEEN 51 AND 100 THEN '**'
131 ELSE '***'
132 AS STOCK
Unititled

Logical Operators

Notes

Individual States of the states of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Outline
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                                                                         132 END AS STOCK
133 FROM books;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       133:15 Text Spaces: 4 🗘
      Ilke.sql
problems.sql
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                                                                     | title
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43 | *
12 | *
97 | **
154 | ***
26 | *
68 | **
55 | **
104 | ***
100 | **
23 | *
                                                                           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 Hearthreaking Work of Staggering Genius
                                                                              A Heartbreaking Work of Staggering Genius
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                                                                             Coraline | What We Talk About Love: Stories |
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127 SELECT title,
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WHEN stock_quantity BETWEEN 0 AND 50 THEN '*'
WHEN stock_quantity BETWEEN 51 AND 100 THEN '**'
ELSE '***'
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129
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                                                                    | title
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      first_file.sql
like.sql
problems.sql
                                                                              The Namesake
                                                                             Norse Mythology
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American Gods
Interpreter of Maladies
A Hologram for the King: A Novel
The Circle
The Amazing Adventures of Kavalier & Clay
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                                                                           Ine Amazing Adventures of Ravaller & 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
                                                                                                                                    A Little More Succinct
                                                                                   SELECT title, stock_quantity,
                                                                                                                   CASE
                                                                                                                                                    WHEN stock_quantity <= 50 THEN '*'
                                                                                                                                                      WHEN stock_quantity <= 100 THEN '**'
                                                                                                                                                      ELSE '***
                                                                                                                   END AS STOCK
                                                                                   FROM books;
                                                  mysql>
mysql> SELECT title, stock_quantity,

-> CASE
-> WHEN stock_quantity <= 50 THEN '*'

-> WHEN stock_quantity <= 100 THEN '**'

-> ELSE '****'

-> FROM books;
   exercises.sql
first_file.sql
like.sql
                                                       | title
                                                                                                                                                                                                                                                                                                                                           | stock_quantity | STOCK |
                                                                                                                                                                                                                                                                                                                                                                                                             32
43
12
                                                               The Namesake
Norse Mythology
American Gods
                                                       | Interpreter of Maladies
                                                                                                                                                                                                                                                                                                                                                                                                               97 |
```

Exercises

```
Evaluate the following...

SELECT 10 != 10;

SELECT 15 > 14 && 99 - 5 <= 94;

SELECT 1 IN (5,3) || 9 BETWEEN 8 AND 10;

Bysql> SELECT 18 != 18;

10 != 10 != 10 != 10;

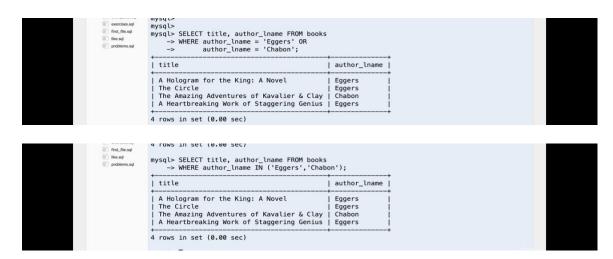
1 row in set (0.00 sec)

Select All

Select All
```

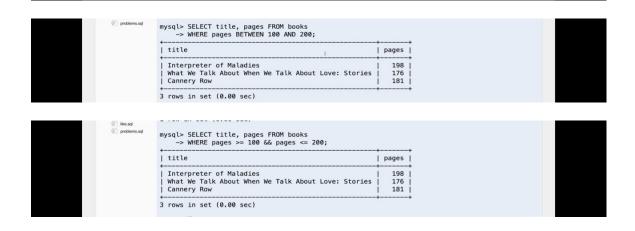
Select All Books Written Before 1980 (non inclusive)

Select All Books Written By Eggers Or Chabon



Select All Books Written By Lahiri, Published after 2000

Select All books with page counts between 100 and 200



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

