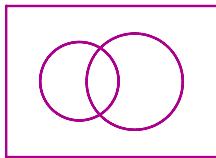


Logical operators

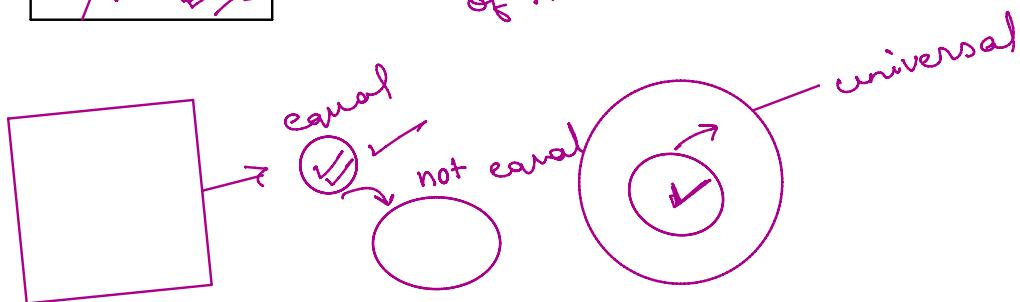
↳ [not equal, not like, and, or, not, not in, case, between]

• not equal



— venn diagram

↳ complement



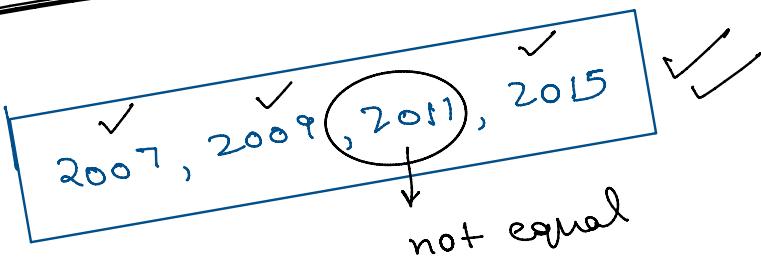
Select * from books where
released year = 2000;



↳ complement

Select * from books where
released-year != 2000;

not like — complement



not equal



greater & less than
or equal

released - year $\rightarrow 20^{06};$

Boolean \rightarrow True or false

0 - false
1 - true

dictionary order

$c > b$
 $z > a$

and logical &

Cond1	Cond2	Output
T	T	T
T	F	F
F	T	F
F	F	F

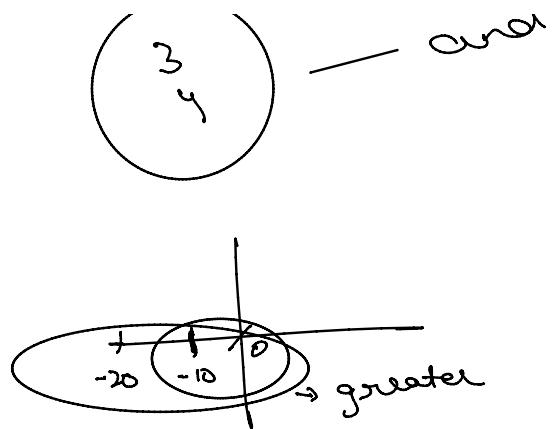
short switching

keyword \rightarrow predefined
upper/lower
Select

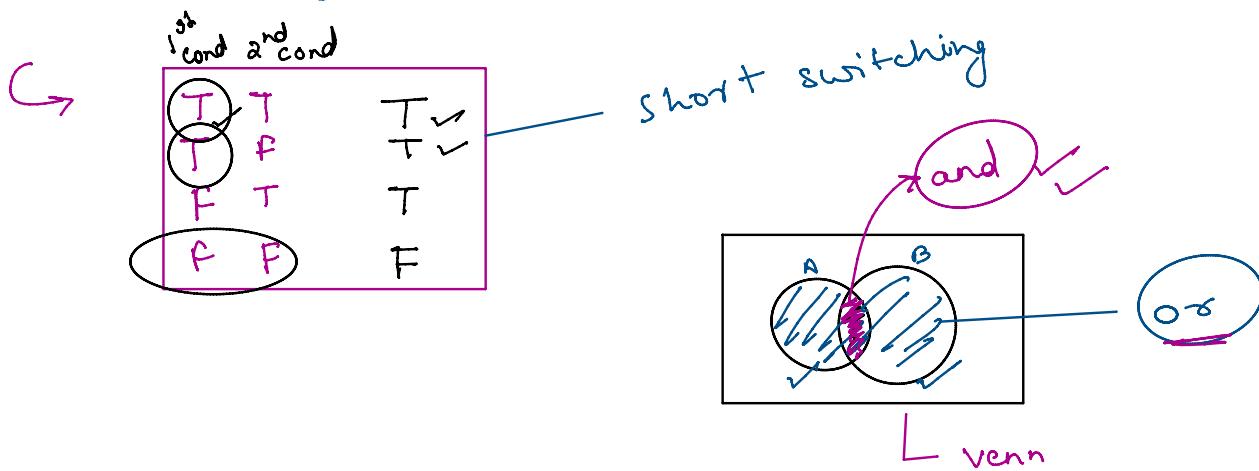
once you find the false
in 1st condⁿ, no need to
check 2nd condⁿ \rightarrow output false

2 condition \rightarrow stock quantity 8 pages

3
— and



OR logic 11



Between

start
↓
[- , -] → end
↓

inclusive

↳ only club with

'and'
'||'
&& X

not between
opposite

Select title, released_year from books

where released_year between 2004 and 2015;
inclusive

In & not in

(OR)
1 condition (and)

10 conditions

(OR)
↳ 10 conditions \hookrightarrow 10 conditions

Case

if-else

Case when then

$$2 \sqrt{13} = 6 \\ 12 \\ 1 \\ ! = 0$$

remainder

odd $\rightarrow != 0$
even $\rightarrow == 0$

released year ≥ 2000 Then Modern Lit
else \rightarrow 20th Century Lit

Case

3

column

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
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	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

Select title, released_year,

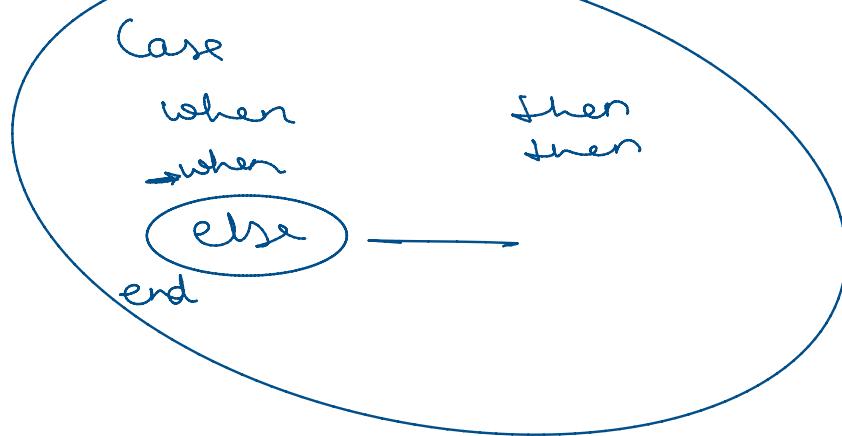
case
when released_year ≥ 2000 Then 'Modern Lit'
else '20th Century Lit'
end as 'Genre'

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	68	**
Just Kids	53	**
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	***

Case
stock < *
0 - 50 **
51 - 100 ***
> 100 as stock
end

Between
and
end



Select title, stock -quantity,

Case
when stock -quantity between 0 and 50 Then '*'
when " " " 51 and 100 Then '**'
else "***)
end as stock

logical operator Challenge

Evaluate the following...

`SELECT 10 != 10; false`

2 Select All Books Written Before 1980 (non inclusive)

3 Select All Books Written By Eggers Or Chabon

4 Select All Books Written By Lahiri, Published after 2000

5 Select All books with page counts between 100 and 200

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

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

```
+---+  
| 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  
| rime_in_the_rain
```

author_lname	TYPE
Lahiri	Novel
Gaiman	Novel
Gaiman	Novel
Lahiri	Novel
Eggers	Novel
Eggers	Novel
Chabon	Novel
Smith	Memoir
Eggers	Memoir
Gaiman	Novel
Carver	Short Stories
Carver	Short Stories
DeLillo	Novel
Steinbeck	Novel
Foster Wallace	Short Stories
Foster Wallace	Novel
Harris	Novel
Harris	Novel
Sawardekar	Novel

→ short stories