

# CODE: Not Equal

## Section 11, Lecture 173

```
SELECT title FROM books WHERE released_year = 2017;
```

```
SELECT title FROM books WHERE released_year != 2017;
```

```
SELECT title, author_lname FROM books;
```

```
SELECT title, author_lname FROM books WHERE author_lname = 'Harris';
```

```
SELECT title, author_lname FROM books WHERE author_lname != 'Harris';
```

# CODE: Not Like

## Section 11, Lecture 175

```
SELECT title FROM books WHERE title LIKE 'W';
```

```
SELECT title FROM books WHERE title LIKE 'W%';
```

```
SELECT title FROM books WHERE title LIKE '%W%';
```

```
SELECT title FROM books WHERE title LIKE 'W%';
```

```
SELECT title FROM books WHERE title NOT LIKE 'W%';
```

# CODE: Greater Than

## Section 11, Lecture 177

```
SELECT title, released_year FROM books ORDER BY released_year;
```

```
SELECT title, released_year FROM books  
WHERE released_year > 2000 ORDER BY released_year;
```

```
SELECT title, released_year FROM books  
WHERE released_year >= 2000 ORDER BY released_year;
```

```
SELECT title, stock_quantity FROM books;
```

```
SELECT title, stock_quantity FROM books WHERE stock_quantity >= 100;
```

```
SELECT 99 > 1;
```

```
SELECT 99 > 567;
```

```
100 > 5
```

```
-- true
```

```
-15 > 15
```

```
-- false
```

```
9 > -10
```

```
-- true
```

```
1 > 1
```

```
-- false
```

```
'a' > 'b'
```

```
-- false
```

```
'A' > 'a'
```

```
-- false
```

```
'A' >= 'a'
```

```
-- true
```

```
SELECT title, author_lname FROM books WHERE author_lname = 'Eggers';
```

```
SELECT title, author_lname FROM books WHERE author_lname = 'eggers';
```

```
SELECT title, author_lname FROM books WHERE author_lname = 'eGgers';
```

# CODE: Less Than

## Section 11, Lecture 179

```
SELECT title, released_year FROM books;
```

```
SELECT title, released_year FROM books  
WHERE released_year < 2000;
```

```
SELECT title, released_year FROM books  
WHERE released_year <= 2000;
```

```
SELECT 3 < -10;  
-- false
```

```
SELECT -10 < -9;  
-- true
```

```
SELECT 42 <= 42;  
-- true
```

```
SELECT 'h' < 'p';  
-- true
```

```
SELECT 'Q' <= 'q';  
-- true
```

# CODE: Logical AND

## Section 11, Lecture 181

```
SELECT title, author_lname, released_year FROM books
WHERE author_lname='Eggers';
```

```
SELECT title, author_lname, released_year FROM books
WHERE released_year > 2010;
```

```
SELECT
    title,
    author_lname,
    released_year FROM books
WHERE author_lname='Eggers'
    AND released_year > 2010;
```

```
SELECT 1 < 5 && 7 = 9;
-- false
```

```
SELECT -10 > -20 && 0 <= 0;
-- true
```

```
SELECT -40 <= 0 AND 10 > 40;
--false
```

```
SELECT 54 <= 54 && 'a' = 'A';
-- true
```

```
SELECT *
FROM books
WHERE author_lname='Eggers'
    AND released_year > 2010
    AND title LIKE '%novel%';
```

# CODE: Logical OR

## Section 11, Lecture 183

```
SELECT
    title,
    author_lname,
    released_year
FROM books
WHERE author_lname='Eggers' || released_year > 2010;
```

```
SELECT 40 <= 100 || -2 > 0;
-- true
```

```
SELECT 10 > 5 || 5 = 5;
-- true
```

```
SELECT 'a' = 5 || 3000 > 2000;
-- true
```

```
SELECT title,
    author_lname,
    released_year,
    stock_quantity
FROM books
WHERE author_lname = 'Eggers'
    || released_year > 2010
OR stock_quantity > 100;
```

# CODE: Between

## Section 11, Lecture 185

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

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

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

```
SELECT CAST('2017-05-02' AS DATETIME);
```

```
show databases();
```

```
use new_testing_db;
```

```
SELECT name, birthdt FROM people WHERE birthdt BETWEEN '1980-01-01' AND '2000-01-01';
```

```
SELECT  
    name,  
    birthdt  
FROM people  
WHERE  
    birthdt BETWEEN CAST('1980-01-01' AS DATETIME)  
    AND CAST('2000-01-01' AS DATETIME);
```

# CODE: In And Not In

## Section 11, Lecture 187

```
show databases();  
use book_shop;
```

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

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

```
SELECT title, released_year FROM books  
WHERE released_year IN (2017, 1985);
```

```
SELECT title, released_year FROM books  
WHERE released_year != 2000 AND  
       released_year != 2002 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;
```

```
SELECT title, released_year FROM books  
WHERE released_year NOT IN  
(2000,2002,2004,2006,2008,2010,2012,2014,2016);
```

```
SELECT title, released_year FROM books  
WHERE released_year >= 2000  
AND released_year NOT IN  
(2000,2002,2004,2006,2008,2010,2012,2014,2016);
```

```
SELECT title, released_year FROM books  
WHERE released_year >= 2000 AND  
       released_year % 2 != 0;
```

```
SELECT title, released_year FROM books  
WHERE released_year >= 2000 AND  
       released_year % 2 != 0 ORDER BY released_year;
```



# CODE: Case Statements

## Section 11, Lecture 189

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

```
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;
```

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

```
SELECT title, stock_quantity,  
       CASE  
         WHEN stock_quantity BETWEEN 0 AND 50 THEN '*'  
         WHEN stock_quantity BETWEEN 51 AND 100 THEN '**'  
         WHEN stock_quantity BETWEEN 101 AND 150 THEN '***'  
         ELSE '****'  
       END AS STOCK  
FROM books;
```

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

# CODE: Logical Operators Exercises Solution

## Section 11, Lecture 192

```
SELECT 10 != 10;  
-- false
```

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

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

```
SELECT title, released_year FROM books WHERE released_year > 1980;
```

```
SELECT title, author_lname FROM books WHERE author_lname='Eggers' OR author_lname='Chabon';
```

```
SELECT title, author_lname FROM books WHERE author_lname IN ('Eggers','Chabon');
```

```
SELECT title, author_lname, released_year FROM books WHERE author_lname = 'Lahiri' && released_year > 2000;
```

```
SELECT title, pages FROM books WHERE pages >= 100 && pages <=200;
```

```
SELECT title, pages FROM books WHERE pages BETWEEN 100 AND 200;
```

```
SELECT  
    title,  
    author_lname  
FROM books  
WHERE  
    author_lname LIKE 'C%' OR  
    author_lname LIKE 'S%';
```

```
SELECT  
    title,  
    author_lname  
FROM books  
WHERE  
    SUBSTR(author_lname,1,1) = 'C' OR  
    SUBSTR(author_lname,1,1) = 'S';
```

```
SELECT title, author_lname FROM books  
WHERE SUBSTR(author_lname,1,1) IN ('C', 'S');
```

```
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;
```

```
SELECT author_fname, author_lname,  
       CASE  
         WHEN COUNT(*) = 1 THEN '1 book'  
         ELSE CONCAT(COUNT(*), ' books')  
       END AS COUNT  
FROM books  
GROUP BY author_lname, author_fname;
```