

CODE: The Count Function

Section 9, Lecture 134

```
SELECT COUNT(*) FROM books;
```

```
SELECT COUNT(author_fname) FROM books;
```

```
SELECT COUNT(DISTINCT author_fname) FROM books;
```

```
SELECT COUNT(DISTINCT author_lname) FROM books;
```

```
SELECT COUNT(DISTINCT author_lname, author_fname) FROM books;
```

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

```
SELECT COUNT(*) FROM books WHERE title LIKE '%the%';
```

CODE: The Joys of Group By

Section 9, Lecture 136

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

```
SELECT title, author_lname FROM books  
GROUP BY author_lname  
SELECT author_lname, COUNT(*)  
FROM books GROUP BY author_lname;
```

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

```
SELECT title, author_fname, author_lname FROM books GROUP BY author_lname;
```

```
SELECT author_fname, author_lname, COUNT(*) FROM books GROUP BY author_lname;
```

```
SELECT author_fname, author_lname, COUNT(*) FROM books GROUP BY author_lname, author_fname;
```

```
SELECT released_year FROM books;
```

```
SELECT released_year, COUNT(*) FROM books GROUP BY released_year;
```

```
SELECT CONCAT('In ', released_year, ' ', COUNT(*), ' book(s) released') AS year FROM books GR  
OUP BY released_year;
```

CODE: MIN and MAX Basics

Section 9, Lecture 138

```
SELECT MIN(released_year)
FROM books;
```

```
SELECT MIN(released_year) FROM books;
```

```
SELECT MIN(pages) FROM books;
```

```
SELECT MAX(pages)
FROM books;
```

```
SELECT MAX(released_year)
FROM books;
```

```
SELECT MAX(pages), title
FROM books;
```

CODE: A Problem with Min and Max

Section 9, Lecture 140

```
SELECT * FROM books
WHERE pages = (SELECT Min(pages)
               FROM books);
```

```
SELECT title, pages FROM books
WHERE pages = (SELECT Max(pages)
               FROM books);
```

```
SELECT title, pages FROM books
WHERE pages = (SELECT Min(pages)
               FROM books);
```

```
SELECT * FROM books
ORDER BY pages ASC LIMIT 1;
```

```
SELECT title, pages FROM books
ORDER BY pages ASC LIMIT 1;
```

```
SELECT * FROM books
ORDER BY pages DESC LIMIT 1;
```

CODE: Using Min and Max with Group By

Section 9, Lecture 142

```
SELECT author_fname,  
       author_lname,  
       Min(released_year)  
FROM   books  
GROUP BY author_lname,  
         author_fname;
```

```
SELECT  
    author_fname,  
    author_lname,  
    Max(pages)  
FROM books  
GROUP BY author_lname,  
         author_fname;
```

```
SELECT  
    CONCAT(author_fname, ' ', author_lname) AS author,  
    MAX(pages) AS 'longest book'  
FROM books  
GROUP BY author_lname,  
         author_fname;
```

CODE: The Sum Function

Section 9, Lecture 144

```
SELECT SUM(pages)
FROM books;
```

```
SELECT SUM(released_year) FROM books;
```

```
SELECT author_fname,
       author_lname,
       Sum(pages)
FROM books
GROUP BY
       author_lname,
       author_fname;
```

```
SELECT author_fname,
       author_lname,
       Sum(released_year)
FROM books
GROUP BY
       author_lname,
       author_fname;
```

CODE: The Avg Function

Section 9, Lecture 146

```
SELECT AVG(released_year)
FROM books;
```

```
SELECT AVG(pages)
FROM books;
```

```
SELECT AVG(stock_quantity)
FROM books
GROUP BY released_year;
```

```
SELECT released_year, AVG(stock_quantity)
FROM books
GROUP BY released_year;
```

```
SELECT author_fname, author_lname, AVG(pages) FROM books
GROUP BY author_lname, author_fname;
```

CODE: Aggregate Functions Challenges Solution

Section 9, Lecture 149

```
SELECT COUNT(*) FROM books;
```

```
SELECT COUNT(*) FROM books GROUP BY released_year;
```

```
SELECT released_year, COUNT(*) FROM books GROUP BY released_year;
```

```
SELECT Sum(stock_quantity) FROM BOOKS;
```

```
SELECT AVG(released_year) FROM books GROUP BY author_lname, author_fname;
```

```
SELECT author_fname, author_lname, AVG(released_year) FROM books GROUP BY author_lname, author_fname;
```

```
SELECT CONCAT(author_fname, ' ', author_lname) FROM books  
WHERE pages = (SELECT Max(pages) FROM books);
```

```
SELECT CONCAT(author_fname, ' ', author_lname) FROM books  
ORDER BY pages DESC LIMIT 1;
```

```
SELECT pages, CONCAT(author_fname, ' ', author_lname) FROM books  
ORDER BY pages DESC;
```

```
SELECT released_year AS year,  
       COUNT(*) AS '# of books',  
       AVG(pages) AS 'avg pages'  
FROM books  
GROUP BY released_year;
```