

3.Group By , Sum , Avg , Count

```
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%';
```

```
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 GROUP BY released_year;
```

```
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;
```

```
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;
```

```
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;
```

```
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;
```

```
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;
```

```
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;
```