Aggregate functions in SQL

Operator	Description
Min	returns the smallest value of the selected column.
Max	returns the largest value of the selected column.
Count	returns the number of rows that matches specified criteria.
Avg	returns the average value of a numeric column.
Sum	returns the total sum of a numeric column

Min

employee_tbl

```
+------+-------+------------+--------------------+
| id   | name  | work_date  | daily_typing_pages |
+------+-------+------------+--------------------+
|    1 | John  | 2007-01-24 |                250 |
|    2 | Ram   | 2007-05-27 |                220 |
|    3 | Jack  | 2007-05-06 |                170 |
|    3 | Jack  | 2007-04-06 |                100 |
|    4 | Jill  | 2007-04-06 |                220 |
|    5 | Zara  | 2007-06-06 |                300 |
|    5 | Zara  | 2007-02-06 |                350 |
+------+-------+------------+--------------------+
```

Query

SELECT MIN(daily_typing_pages)
FROM employee_tbl

Output

```
+--------------------------+
| MIN(daily_typing_pages)  |
+--------------------------+
|                      100 |
+--------------------------+
```

Max

employee_tbl

```
+-------+--------+------------+----------------------+
| id    | name   | work_date  | daily_typing_pages   |
+-------+--------+------------+----------------------+
|     1 | John   | 2007-01-24 |                  250 |
|     2 | Ram    | 2007-05-27 |                  220 |
|     3 | Jack   | 2007-05-06 |                  170 |
|     3 | Jack   | 2007-04-06 |                  100 |
|     4 | Jill   | 2007-04-06 |                  220 |
|     5 | Zara   | 2007-06-06 |                  300 |
|     5 | Zara   | 2007-02-06 |                  350 |
+-------+--------+------------+----------------------+
```

Query

SELECT MIN(daily_typing_pages) least
MAX(daily_typing_pages) max
FROM employee_tbl

Output

```
+----------+---------+
| least    | max     |
+----------+---------+
|    100   |   350   |
+----------+---------+
```

Count

employee_tbl

```
+--------+--------+------------+---------------------+
|  id    |  name  |  work_date |  daily_typing_pages |
+--------+--------+------------+---------------------+
|     1  |  John  |  2007-01-24 |                 250 |
|     2  |  Ram   |  2007-05-27 |                 220 |
|     3  |  Jack  |  2007-05-06 |                 170 |
|     3  |  Jack  |  2007-04-06 |                 100 |
|     4  |  Jill  |  2007-04-06 |                 220 |
|     5  |  Zara  |  2007-06-06 |                 300 |
|     5  |  Zara  |  2007-02-06 |                 350 |
+--------+--------+------------+---------------------+
```

Query

```
SELECT COUNT(*)
FROM employee_tbl
WHERE name="Zara";
```

Output

```
+---------------+
|   COUNT(*)    |
+---------------+
|            2  |
+---------------+
```

Avg

employee_tbl

```
+------+--------+------------+--------------------+
| id   | name   | work_date  | daily_typing_pages |
+------+--------+------------+--------------------+
|    1 | John   | 2007-01-24 |                250 |
|    2 | Ram    | 2007-05-27 |                220 |
|    3 | Jack   | 2007-05-06 |                170 |
|    3 | Jack   | 2007-04-06 |                100 |
|    4 | Jill   | 2007-04-06 |                220 |
|    5 | Zara   | 2007-06-06 |                300 |
|    5 | Zara   | 2007-02-06 |                350 |
+------+--------+------------+--------------------+
```

Query

SELECT AVG(daily_typing_pages)
FROM employee_tbl

Output

```
+-------------------------+
| AVG(daily_typing_pages) |
+-------------------------+
|                230.0000 |
+-------------------------+
```

Sum

employee_tbl

```
+------+--------+--------------+---------------------+
| id   | name   | work_date    | daily_typing_pages  |
+------+--------+--------------+---------------------+
|    1 | John   | 2007-01-24   |                 250 |
|    2 | Ram    | 2007-05-27   |                 220 |
|    3 | Jack   | 2007-05-06   |                 170 |
|    3 | Jack   | 2007-04-06   |                 100 |
|    4 | Jill   | 2007-04-06   |                 220 |
|    5 | Zara   | 2007-06-06   |                 300 |
|    5 | Zara   | 2007-02-06   |                 350 |
+------+--------+--------------+---------------------+
```

Query

```
SELECT SUM(daily_typing_pages)
FROM employee_tbl
```

Output

```
+----------------------------+
| SUM(daily_typing_pages)    |
+----------------------------+
|                       1610 |
+----------------------------+
```