

```
MySQL 8.0 Command Line Cli x + v
mysql> SELECT
-> ROUND(MAX(Salary)) AS Maximum,
-> ROUND(MIN(Salary)) AS Minimum,
-> ROUND(SUM(Salary)) AS Sum,
-> ROUND(AVG(Salary)) AS Average
-> FROM
-> Employees;
+-----+-----+-----+-----+
| Maximum | Minimum | Sum | Average |
+-----+-----+-----+-----+
| 90000 | 50000 | 510000 | 72857 |
+-----+-----+-----+-----+
1 row in set (0.01 sec)

mysql> SELECT
-> Job_Title,
-> ROUND(MIN(Salary)) AS Minimum,
-> ROUND(MAX(Salary)) AS Maximum,
-> ROUND(SUM(Salary)) AS Sum,
-> ROUND(AVG(Salary)) AS Average
-> FROM
-> Employees
-> GROUP BY
-> Job_Title;
+-----+-----+-----+-----+-----+
| Job_Title | Minimum | Maximum | Sum | Average |
+-----+-----+-----+-----+-----+
| Sales Manager | 80000 | 80000 | 80000 | 80000 |
| Sales Associate | 60000 | 60000 | 60000 | 60000 |
| IT Manager | 90000 | 90000 | 90000 | 90000 |
| Software Engineer | 75000 | 75000 | 75000 | 75000 |
| HR Manager | 70000 | 70000 | 70000 | 70000 |
| HR Associate | 50000 | 50000 | 50000 | 50000 |
| Finance Manager | 85000 | 85000 | 85000 | 85000 |
+-----+-----+-----+-----+-----+
7 rows in set (0.01 sec)

mysql> SELECT
-> Job_Title,
-> COUNT(*) AS Number_of_Employees
-> FROM
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MySQL 8.0 Command Line Cli x + v
Job_Title' at line 7
mysql> SELECT
-> COUNT(DISTINCT Manager_ID) AS Number_of_Managers
-> FROM
-> Employees
-> WHERE
-> Manager_ID IS NOT NULL;
+-----+
| Number_of_Managers |
+-----+
| 3 |
+-----+
1 row in set (0.00 sec)

mysql> SELECT
-> Job_Title,
-> COUNT(*) AS Number_of_Employees
-> FROM
-> Employees
-> WHERE
-> Job_Title = 'Sales Associate' -- Replace with the desired job title
-> GROUP BY
-> Job_Title;
+-----+-----+
| Job_Title | Number_of_Employees |
+-----+-----+
| Sales Associate | 1 |
+-----+-----+
1 row in set (0.00 sec)

mysql> SELECT
-> ROUND(MAX(Salary) - MIN(Salary)) AS DIFFERENCE
-> FROM
-> Employees;
+-----+
| DIFFERENCE |
+-----+
| 40000 |
+-----+
1 row in set (0.00 sec)

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-> MIN(Salary) > 6000
-> ORDER BY
-> Lowest_Paid_Salary DESC;
+-----+
| Manager_ID | Lowest_Paid_Salary |
+-----+
| 3          | 75000.00           |
| 1          | 60000.00           |
| 5          | 50000.00           |
+-----+
3 rows in set (0.00 sec)

mysql> SELECT
-> COUNT(*) AS Total_Employees,
-> SUM(CASE WHEN YEAR(Hire_Date) IN (1995, 1996, 1997, 1998) THEN 1 ELSE 0 END) AS Hired_1995_1998
-> FROM
-> Employees;
+-----+
| Total_Employees | Hired_1995_1998 |
+-----+
| 7              | 7               |
+-----+
1 row in set (0.01 sec)

mysql> SELECT
-> Job_Title,
-> Department_ID,
-> SUM(Salary) AS Total_Salary
-> FROM
-> Employees
-> WHERE
-> Department_ID IN (20, 50, 80, 90)
-> GROUP BY
-> Job_Title, Department_ID;
+-----+
| Job_Title | Department_ID | Total_Salary |
+-----+
| Sales Manager | 20 | 80000.00 |
| Sales Associate | 20 | 60000.00 |
| Finance Manager | 50 | 85000.00 |
+-----+

MySQL 8.0 Command Line Cl...
+-----+
| Sales Associate | 20 | 60000.00 |
| Finance Manager | 50 | 85000.00 |
+-----+
3 rows in set (0.00 sec)

mysql> SELECT
-> D.Department_Name AS Name,
-> D.Location AS Location,
-> COUNT(E.Employee_ID) AS Number_of_People,
-> ROUND(AVG(E.Salary), 2) AS Salary
-> FROM
-> Departments D
-> LEFT JOIN
-> Employees E ON D.Department_ID = E.Department_ID
-> GROUP BY
-> D.Department_Name, D.Location;
+-----+
| Name | Location | Number_of_People | Salary |
+-----+
| Administration | New York | 0 | NULL |
| Sales | Los Angeles | 2 | 70000.00 |
| IT | San Francisco | 2 | 82500.00 |
| HR | Chicago | 2 | 60000.00 |
| Finance | Dallas | 1 | 85000.00 |
| Marketing | Seattle | 0 | NULL |
| Operations | Miami | 0 | NULL |
+-----+
7 rows in set (0.00 sec)

mysql> |
```