## **MYSQL**

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## 1. Aggregate Functions:

In database management an aggregate function is a function where the values of multiple rows are grouped together as input on certain criteria to form a single value of more significant meaning.

## **Here Various Aggregate Functions:**

- o Count()
- o Sum()
- o Avg()
- o Min()
- o Max()

**a)Count** - The COUNT() function returns the number of rows that matches a specified criterion.

```
MariaDB [company]> select * from Employee;
      Name
                    Designation
                                      Salary
       Vinoth
                     Data_Analyst
                                         25000
       Karthi
                    | Software_Testing
                                         46000
       Satishwaran Mis Executive
                                         24000
                   Python developer
       Santhosh
                                         58000
       Johnson
                                         36000
 rows in set (0.019 sec)
MariaDB [company]> select count(Salary) from Employee;
 count(Salary)
 row in set (0.122 sec)
```

b)Sum - The SUM() function returns the total sum of a numeric column.

```
MariaDB [company]> select * from Employee;
                       Designation
                                          Salary
  ΙD
       Name
     1
        Vinoth
                       Data Analyst
                                           25000
                       Software Testing
        Karthi
     2
                                           46000
        Satishwaran
                       Mis Executive
     3
                                           24000
                       Python developer
        Santhosh
                                           58000
        Johnson
                       HR
                                           36000
 rows in set (0.001 sec)
MariaDB [company]> select sum(Salary) from Employee;
  sum(Salary)
       189000
 row in set (0.001 sec)
```

c)Max - The MAX() function returns the largest value of the selected column.

```
MariaDB [company]> select * from Employee;
        Name
  ΙD
                       Designation
                                          Salary
        Vinoth
                       Data Analyst
                                           25000
                       Software Testing
     2
        Karthi
                                           46000
        Satishwaran
                       Mis Executive
                                           24000
                       Python developer
    4
        Santhosh
                                           58000
        Johnson
                                           36000
 rows in set (0.005 sec)
MariaDB [company]> select max(Salary) from Employee;
 max(Salary)
        58000
 row in set (0.003 sec)
```

d)Min - The MIN() function returns the smallest value of the selected column.

```
MariaDB [company]> select * from Employee;
                       Designation
                                           Salary
 ID
        Name
        Vinoth
                       Data Analyst
                                            25000
    1
                       Software Testing
     2
         Karthi
                                            46000
                       Mis Executive
     3
         Satishwaran
                                            24000
                       Python developer
        Santhosh
    4
                                            58000
        Johnson
     5
                                            36000
 rows in set (0.001 sec)
MariaDB [company]> select min(Salary) from Employee;
 min(Salary)
        24000
```

e)Avg - The AVG() function returns the average value of a numeric column.

```
MariaDB [company]> select * from Employee;
  ΙD
         Name
                       Designation
                                           Salary
       Vinoth
                       Data Analyst
    1
                                            25000
                       Software Testing
     2
         Karthi
                                            46000
        Satishwaran
                       Mis Executive
                                            24000
                       Python developer
         Santhosh
     4
                                            58000
        Johnson
                                            36000
5 rows in set (0.002 sec)
MariaDB [company]> select avg(Salary) from Employee;
 avg(Salary)
   37800.0000
 row in set (0.004 sec)
```