

### EXPERIMENT - 3

3. Queries using aggregate functions(COUNT,AVG,MIN,MAX,SUM),Group by, Order by.

Employee (E\_id, E\_name, Age, Salary)

1. Create Employee table containing all Records E\_id, E\_name, Age, Salary.

2. Count number of employee names from employee table

3. Find the Maximum age from employee table.

4. Find the Minimum age from employee table.

5. Find salaries of employee in Ascending Order.

6. Find grouped salaries of employees.

1. Create Employee table containing all Records E\_id, E\_name, Age, Salary.

```
CREATE TABLE Employee (  
    E_id INT PRIMARY KEY,  
    E_name VARCHAR(255),  
    Age INT,  
    Salary DECIMAL(10, 2)  
);
```

```
DESC Employee;
```

Field	Type	Null	Key	Default	Extra
E_id	int	NO	PRI	NULL	
E_name	varchar(255)	YES		NULL	
Age	int	YES		NULL	
Salary	decimal(10,2)	YES		NULL	

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```
INSERT INTO Employee (E_id, E_name, Age, Salary)
VALUES
  (1, 'Samarth', 30, 50000.00),
  (2, 'Ramesh Kumar', 25, 45000.00),
  (3, 'Seema Banu', 35, 60000.00),
  (4, 'Dennis Anil', 28, 52000.00),
  (5, 'Rehman Khan', 32, 58000.00),
  (6, 'Pavan Gowda', 40, 70000.00),
  (7, 'Shruthi Bhat', 27, 48000.00),
  (8, 'Sandesh Yadav', 29, 51000.00),
  (9, 'Vikram Acharya', 33, 62000.00),
  (10, 'Praveen Bellad', 26, 46000.00),
  (11, 'Sophia Mary', 31, 55000.00),
  (12, 'Darshan Desai', 34, 63000.00);
```

```
SELECT * FROM Employee;
```

E_id	E_name	Age	Salary
1	Samarth	30	50000.00
2	Ramesh Kumar	25	45000.00
3	Seema Banu	35	60000.00
4	Dennis Anil	28	52000.00
5	Rehman Khan	32	58000.00
6	Pavan Gowda	40	70000.00
7	Shruthi Bhat	27	48000.00
8	Sandesh Yadav	29	51000.00
9	Vikram Acharya	33	62000.00
10	Praveen Bellad	26	46000.00
11	Sophia Mary	31	55000.00
12	Darshan Desai	34	63000.00

2. Count number of employee names from employee table.

```
SELECT COUNT(E_name) AS TotalEmployees
FROM Employee;
```

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TotalEmployees
12

3. Find the Maximum age from employee table.

```
SELECT MAX(Age) AS MaxAge
FROM Employee;
```

MaxAge
40

4. Find the Minimum age from employee table.

```
SELECT MIN(Age) AS MinAge
FROM Employee;
```

MinAge
25

5. Find salaries of employee in Ascending Order.

```
SELECT E_name, Salary
FROM Employee
ORDER BY Salary ASC;
```

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E_name	Salary
Ramesh Kumar	45000.00
Praveen Bellad	46000.00
Shruthi Bhat	48000.00
Samarth	50000.00
Dennis Anil	52000.00
Sandesh Yadav	52000.00
Sophia Mary	55000.00
Rehman Khan	58000.00
Seema Banu	62000.00
Vikram Acharya	62000.00
Darshan Desai	63000.00
Pavan Gowda	70000.00

6. Find grouped salaries of employees.

```
SELECT Salary, COUNT(*) AS EmployeeCount
FROM Employee
GROUP BY Salary;
```

Salary	EmployeeCount
50000.00	1
45000.00	1
62000.00	2
52000.00	2
58000.00	1
70000.00	1
48000.00	1
46000.00	1
55000.00	1
63000.00	1

- COUNT(E\_name) counts the number of non-NULL values in the E\_name column.
- MAX(Age) finds the maximum age among the employees.
- MIN(Age) finds the minimum age among the employees.

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- ORDER BY Salary ASC sorts the employees based on their salaries in ascending order.
- GROUP BY Salary groups employees by their salaries and counts the number of employees for each salary.