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2CSE 9

PROGRAM 5

AGGREGATE & STRING FUNCTIONS (EMPLOYEE TABLE):-

Aggregate Functions

1. Find the total number of employees working in the company.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT COUNT(*) AS total_employees FROM employee;
+-----------------+
| total_employees |
+-----------------+
|              14 |
+-----------------+
1 row in set (0.001 sec)
```

2. Calculate the total salary being paid to all employees.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT SUM(sal) AS total_salary FROM employee;
+--------------+
| total_salary |
+--------------+
|        31518 |
+--------------+
1 row in set (0.001 sec)
```

3. Find the maximum salary from the employee table.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT MAX(sal) AS max_salary FROM employee;
+------------+
| max_salary |
+------------+
|       5500 |
+------------+
1 row in set (0.001 sec)
```

4. Find the minimum salary from the employee table.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT MIN(sal) AS min_salary FROM employee;
+------------+
| min_salary |
+------------+
|        880 |
+------------+
1 row in set (0.001 sec)
```

5. Calculate the average salary of employees.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT AVG(sal) AS avg_salary FROM employee;
+-------------+
| avg_salary  |
+-------------+
|  2251.2857  |
+-------------+
1 row in set (0.001 sec)
```

6. Find the maximum salary being paid to clerks.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT MAX(sal) AS max_clerk_salary FROM employee
    -> WHERE job = 'CLERK';
+------------------+
| max_clerk_salary |
+------------------+
|             1430 |
+------------------+
1 row in set (0.001 sec)
```

7. Find the maximum salary being paid in department number 20.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT MAX(sal) AS max_dept20_salary FROM employee
    -> WHERE deptno = 20;
+------------------+
| max_dept20_salary |
+------------------+
|             5500 |
+------------------+
1 row in set (0.001 sec)
```

8. Find the minimum salary paid to any salesman.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT MIN(sal) AS min_salesman_salary FROM employee
    -> WHERE job = 'SALESMAN';
+---------------------+
| min_salesman_salary |
+---------------------+
|                1250 |
+---------------------+
1 row in set (0.001 sec)
```

9. Calculate the average salary drawn by managers.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT AVG(sal) AS avg_manager_salary FROM employee
    -> WHERE job = 'MANAGER';
+--------------------+
| avg_manager_salary |
+--------------------+
|          3034.3333 |
+--------------------+
1 row in set (0.001 sec)
```

10. Find the total salary drawn by analysts working in department 40**.**

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT SUM(sal) AS total_analyst_salary FROM employee
    -> WHERE job = 'ANALYST' AND deptno = 40;
+----------------------+
| total_analyst_salary |
+----------------------+
|                 3300 |
+----------------------+
1 row in set (0.001 sec)
```

String Functions

11. Display employee names in uppercase.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT UPPER(ename)
    -> FROM employee;
+---------------+
| UPPER(ename) |
+---------------+
| SMITH        |
| ALLEN        |
| WARD         |
| JONES        |
| MARTIN       |
| BLAKE        |
| CLARK        |
| SCOTT        |
| KING         |
| TURNER       |
| ADAMS        |
| JAMES        |
| FORD         |
| MILLER       |
+---------------+
14 rows in set (0.001 sec)
```

12. Display employee names in lowercase.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT LOWER(ename) FROM employee;
+---------------+
| LOWER(ename) |
+---------------+
| smith        |
| allen        |
| ward         |
| jones        |
| martin       |
| blake        |
| clark        |
| scott        |
| king         |
| turner       |
| adams        |
| james        |
| ford         |
| miller       |
+---------------+
14 rows in set (0.001 sec)
```

13. Display employee names in proper case (first letter capitalized).

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT CONCAT(
    ->        UPPER(LEFT(ename,1)),
    ->        LOWER(SUBSTRING(ename,2))
    -> ) AS Proper_Name FROM employee;
+--------------+
| Proper_Name  |
+--------------+
| Smith        |
| Allen        |
| Ward         |
| Jones        |
| Martin       |
| Blake        |
| Clark        |
| Scott        |
| King         |
| Turner       |
| Adams        |
| James        |
| Ford         |
| Miller       |
+--------------+
14 rows in set (0.001 sec)
```

14. Display the length of your name.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT LENGTH('MOHAMMAD TASIN') AS name_length;
+-------------+
| name_length |
+-------------+
|          14 |
+-------------+
1 row in set (0.001 sec)
```

15. Display the length of all employee names.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT ename, LENGTH(ename) AS name_length FROM employee;
+--------+-------------+
| ename  | name_length |
+--------+-------------+
| SMITH  |           5 |
| ALLEN  |           5 |
| WARD   |           4 |
| JONES  |           5 |
| MARTIN |           6 |
| BLAKE  |           5 |
| CLARK  |           5 |
| SCOTT  |           5 |
| KING   |           4 |
| TURNER |           6 |
| ADAMS  |           5 |
| JAMES  |           5 |
| FORD   |           4 |
| MILLER |           6 |
+--------+-------------+
14 rows in set (0.001 sec)

MariaDB [VARUN_SINGH_2CSE9]>
```