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CHN18CS005

S5C- 03

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EXP.8

Questions:

Expt8::Implementation of various aggregate functions in SQL

1. Create a table Employee with following specifications.

Code, name, DOB, designation, salary

2. Insert values into the table

3. Display sum of salaries from the table employee where designation is clerk.

4. Describe the maximum salary value from the table employee.

5. Display average salary of employees

6. Describe the minimum salary value from the table

7. Display the total number of employees.

code

#1

```
CREATE TABLE Employee(  
    code CHAR(6) PRIMARY KEY,  
    name VARCHAR(80),  
    dob date,  
    designation VARCHAR(100),  
    salary FLOAT  
);
```

#2

```
INSERT INTO Employee (code, name, dob, designation, salary)  
VALUES  
( 'gm0121','Emmanuel Shine Joseph','2000-10-05','General Manager',50000.25),  
( 'pm2918','Arjun G','1998-11-15','Product Manager',50000.50),  
( 'cl0123','Kumar','1992-02-06','Clerk',25000),  
( 'cl1234','Ram','2001-02-05','Clerk',15000.75);
```

#3

```
SELECT SUM(salary) FROM Employee WHERE designation='Clerk';
```

#4

```
SELECT MAX(salary) FROM Employee;
```

#5

```
SELECT AVG(salary) FROM Employee;
```

#6

```
SELECT MIN(salary) FROM Employee;
```

#7

```
SELECT COUNT(*) FROM Employee;
```

Output

```
MySQL 8.0 Command Line Client

mysql> CREATE TABLE Employee(
->   code CHAR(6) PRIMARY KEY,
->   name VARCHAR(80),
->   dob date,
->   designation VARCHAR(100),
->   salary FLOAT
-> );
Query OK, 0 rows affected (0.05 sec)

mysql>
mysql>
mysql> INSERT INTO Employee (code, name, dob, designation, salary)
-> VALUES
-> ('gm0121','Emmanuel Shine Joseph','2000-10-05','General Manager',50000.25),
-> ('pm2918','Arjun G','1998-11-15','Product Manager',50000.50),
-> ('cl0123','Kumar','1992-02-06','Clerk',25000),
-> ('cl1234','Ram','2001-02-05','Clerk',15000.75);
Query OK, 4 rows affected (0.01 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql>
mysql>
mysql> SELECT SUM(salary) FROM Employee WHERE designation='Clerk';
+-----+
| SUM(salary) |
+-----+
|    40000.75 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql>
mysql> SELECT MAX(salary) FROM Employee;
+-----+
| MAX(salary) |
+-----+
|    50000.5 |
+-----+
1 row in set (0.00 sec)

mysql>
```

```
MySQL 8.0 Command Line Client

mysql>
mysql> SELECT MAX(salary) FROM Employee;
+-----+
| MAX(salary) |
+-----+
|    50000.5 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql>
mysql> SELECT AVG(salary) FROM Employee;
+-----+
| AVG(salary) |
+-----+
|   35000.375 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT MIN(salary) FROM Employee;
+-----+
| MIN(salary) |
+-----+
|   15000.8 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT COUNT(*) FROM Employee;
+-----+
| COUNT(*) |
+-----+
|         4 |
+-----+
1 row in set (0.01 sec)

mysql>
mysql>
```