Experiment 5:

String Functions:

1) ASCII():

```
mysql> select ascii('t');

+-----+

| ascii('t') |

+-----+

| 116 |

+------+

1 row in set (0.00 sec)
```

2) CHAR LENGTH():

3) CHARACTER LENGTH():

4) CONCAT():

```
mysql> SELECT 'Geeks' || ' ' || 'forGeeks' FROM dual;

| 'Geeks' || ' ' || 'forGeeks' |

+-----+
| 0 |

+-----+
1 row in set, 2 warnings (0.00 sec)
```

5) CONCAT WS():

6) FIND_IN_SET():

7) INSTR():

```
mysql> select instr('geéks for geeks','e');
+------+
| instr('geeks for geeks','e') |
+------+
| 2 |
+------+
1 row in set (0.00 sec)

mysql>
```

8) LCASE():

```
mysql> select lcase ("GeeksFor geeks to learn");
+------+
| lcase ("GeeksFor geeks to learn") |
+------+
| geeksfor geeks to learn |
+-----+
1 row in set (0.00 sec)
```

9) Left():

10) locate():

11) lower():

```
mysql> select lower('geeksforgeeks.org');
+-----+
| lower('geeksforgeeks.org') |
+-----+
| geeksforgeeks.org |
+-----+
1 row in set (0.00 sec)

mysql>
```

12) lpad():

13) ltrim():

```
mysql> select ltrim('sql tutorial') as lefttrimmedstring;
+-----+
| lefttrimmedstring |
+-----+
| sql tutorial |
+-----+
1 row in set (0.00 sec)

mysql>
```

14) mid():

15) position():

```
mysql> select position('e' IN 'customer');
+-----+
| position('e' IN 'customer') |
+-----+
| 7 |
+-----+
1 row in set (0.01 sec)
mysql>
```

15) repeat():

16) replace():

17) reverse():

18) right():

19) rpad():

20) rtrim():

21) space():

22) strcmp():

```
mysql> select strcmp('google.com','geeksforgeeks.com');
+------+
| strcmp('google.com','geeksforgeeks.com') |
+------+
| 1 |
1 row in set (0.00 sec)
mysql>
```

23) substr():

24) substring():

25) substring index():

26) trim():

27) upcase():

```
mysql> select ucase("geeksforgeeks");
+------+
| ucase("geeksforgeeks") |
+-----+
| GEEKSFORGEEKS |
+-----+
1 row in set (0.00 sec)
mysql>
```

Aggregate functions:

```
mysql> DESC KC;
 Field | Type
                             | Null | Key | Default | Extra |
                                YES
                                                 NULL
              int(5)
             varchar(40)
varchar(50)
  NAME
                                YES
                                                 NULL
                               YES
                                                 NULL
  SALARY | int(10)
                               YES
                                                NULL
4 rows in set (0.00 sec)
mysql> INSERT INTO KC(E_ID,NAME,WORK,SALARY) VALUES (01,"A","DEV",1000);
Query OK, 1 row affected (0.02 sec)
mysql> INSERT INTO KC(E_ID,NAME,WORK,SALARY) VALUES (02,"B","DEV",2000);
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO KC(E_ID,NAME,WORK,SALARY) VALUES (03,"C","DEV",3000);
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO KC(E_ID,NAME,WORK,SALARY) VALUES (04,"D","DEV",4000);
Query OK, 1 row affected (0.00 sec)
mysql> SELECT * FROM KC;
 E_ID | NAME | WORK | SALARY |
           A
                    DEV
                                1000
      2
           В
                    DEV
                                2000
           C
                    DEV
                                3000
      4
           D
                    DEV
                                4000
4 rows in set (0.00 sec)
```

```
mysql> SELECT COUNT(*) FROM KC WHERE E_ID=01;
 COUNT(*)
        1 |
1 row in set (0.00 sec)
mysql> SELECT MIN(SALARY) FROM KC;
MIN(SALARY) |
        1000
1 row in set (0.00 sec)
nysql> SELECT MAX(SALARY) FROM KC;
MAX(SALARY) |
        4000
1 row in set (0.00 sec)
mysql> SELECT AVG(SALARY) FROM KC;
 AVG(SALARY)
   2500.0000
1 row in set (0.00 sec)
mysql> SELECT SUM(SALARY) FROM KC;
```

```
NAME |
 1 row in set (0.00 sec)
mysql> SELECT NAME, SALARY FROM KC WHERE NAME="A" GROUP BY NAME;
ERROR 1055 (42000): Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'mysql.KC.SALARY' which is not functional ly dependent on columns in GROUP BY clause; this is incompatible with sql_mode=only_full_group_by
mysql> SELECT NAME, SALARY FROM KC GROUP BY NAME;
ERROR 1055 (42000): Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'mysql.KC.SALARY' which is not functional ly dependent on columns in GROUP BY clause; this is incompatible with sql_mode=only_full_group_by
mysql> SELECT NAME, SALARY FROM KC GROUP BY NAME;
  mysql> SELECT NAME, SALARY FROM KC ORDER BY NAME;
    NAME | SALARY |
                         1000
    AB
                         2000
                         3000
    D
                         4000
   rows in set (0.00 sec)
 mysql> SELECT NAME, SALARY FROM KC WHERE NAME="A" ORDER BY NAME;
   NAME | SALARY |
   A | 1000 |
   row in set (0.00 sec)
mysql>
```