DBMS LAB
Experiment 10
Built-in Functions

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Aim:

Familiarize various Built-in functions available in MySQL.

Functions and Codes:

```
String Functions
_____
1. ASCII
It returns the ASCII value of the first character.
Syntax: ASCII(character)
select ASCII(fName) as ASCIIfName from Staff39;
+----+
| ASCIIfName |
       77 |
        68 |
        65 I
        83 |
        74 |
        74 |
+---+
2. CHAR LENGTH
It returns the length of the string.
Syntax: CHAR LENGTH(string)
select CHAR LENGTH("Hello World") as Stringlength;
+----+
| Stringlength |
         11 |
+----+
3. CONCAT
It concatenates given strings.
Syntax: CONCAT(expression1, expression2, expression3,...)
select CONCAT("Hello ", "World!") as String;
| String
+----+
| Hello World! |
+----+
```

4. LOWER

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It converts the string into its lower case equivalent.
Syntax: LOWER(text)
select LOWER("Turn THIS into lower CASE") as String;
+----+
| String
+----+
| turn this into lower case |
+----+
5. SUBSTRING
It extracts a substring from a string (start at position 6, extract 3
characters)
Syntax: SUBSTRING(string, start, length)
select SUBSTRING("Take any substring", 6, 3) as String;\
+----+
| String |
+----+
| any |
+---+
Numeric Functions
______
1. COS
It returns the cosine of a number.
Syntax: COS(number)
select COS(65);
+----+
| COS(65)
+----+
| -0.562453851238172 |
+----+
2.
    COUNT()
It returns the number of records returned by a select query.
Syntax: COUNT(expression)
select COUNT(branchNo) from Staff39;
+----+
| COUNT (branchNo) |
```

```
+----+
+----+
   AVG()
It returns the average value of an expression.
Syntax: AVG(expression)
select AVG(salary) from Staff39;
+----+
| AVG(salary) |
+----+
| 17883.5000 |
+----+
4. MAX()
It returns the maximum value in a set of values.
Syntax: MAX(expression)
select MAX(salary) from Staff39;
+----+
| MAX(salary) |
+----+
      32445 |
+----+
   MAX()
It returns the minimum value in a set of values.
Syntax: MIN(expression)
select MIN(salary) from Staff39;
+----+
| MIN(salary) |
9270 |
+----+
Date Functions
```

1. CURDATE()

It returns the current date(in YYYY-MM-DD format)

Syntax: CURDATE()

```
select CURDATE();
+----+
| CURDATE() |
+----+
| 2022-12-04 |
+----+
2. CURTIME()
It returns the current time (in HH-MM-SS format)
Syntax: CURTIME()
select CURTIME();
+----+
| CURTIME() |
+----+
| 20:03:25 |
+----+
3. CURDATE()
It returns the number of days between two date values.
Syntax: DATEDIFF(date1, date2)
select DATEDIFF("2022-06-08","2022-05-15");
+----+
| DATEDIFF("2022-06-08","2022-05-15") |
+----+
+----+
    DAYNAME ()
It returns the weekday name for a given date.
Syntax: DAYNAME(date)
select DAYNAME ("2022-05-04");
+----+
| DAYNAME("2022-05-04") |
+----+
| Wednesday
+----+
   WEEKDAY()
It returns the weekday number for a given date.
Syntax: WEEKDAY(date)
select WEEKDAY ("2017-06-15");
```

```
+-----+
| WEEKDAY("2017-06-15") |
+-----+
| 3 |
```

```
Advanced Functions
1. BIN()
It returns the binary value of a number.
Syntax: BIN(number)
select BIN(63);
+----+
| BIN(63) |
+----+
| 111111 |
+----+
2. CURRENT USER()
It returns the user name and host name for the MySQL account that the
server used to authenticate the current client.
Syntax: CURRENT USER()
select CURRENT USER();
+----+
| CURRENT_USER() |
+----+
| root@localhost |
+----+
3. DATABASE()
It returns the name of the current database.
Syntax: DATABASE()
select DATABASE();
+----+
| DATABASE() |
+----+
| dreamhome39 |
+----+
```

4. IF()

It returns a value if a condition is TRUE, or another value if a

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