

## Advanced SQL functions:

Following are some of the advanced functions defined in SQL:

1. **BIN():** It converts a decimal number to a binary number.

**Syntax:**

```
SELECT BIN(18);
```

Output:

```
10010
```

2. **BINARY():** It converts a value to a binary string

**Syntax:**

```
SELECT BINARY "GeeksforGeeks";
```

Output:

```
GeekforGeeks
```

3. **COALESCE():** It returns the first non-null expression in a list.

**Syntax:**

```
SELECT COALESCE(NULL, NULL, 'GeeksforGeeks', NULL, 'Geeks');
```

Output:

```
GeeksforGeeks
```

4. **CONNECTION\_ID():** It returns the unique connection ID for the current connection.

**Syntax**

```
SELECT CONNECTION_ID();
```

Output : 9

5. **CURRENT\_USER():** It returns the user name and host name for the MySQL account used by the server to authenticate the current client.

**Syntax:**

```
SELECT CURRENT_USER();
```

Output: root@localhost

6. **DATABASE():** It returns the name of the default database.

**Syntax:**

```
SELECT DATABASE();
```

Output: Null

7. **IF():** It returns one value if a condition is TRUE, or another value if a condition is FALSE.

**Syntax:**

```
SELECT IF(200<500, "YES", "NO");
```

Output:

Yes

8. **LAST\_INSERT\_ID():** It returns the first AUTO\_INCREMENT value that was set by the most recent INSERT or UPDATE statement.

**Syntax:**

```
SELECT LAST_INSERT_ID();
```

**Output:**

0

9. **NULLIF():** It returns the first expression if the two expressions are not equal. If the expressions are equal, NULLIF returns a null value of the type of the first expression.

**Syntax:**

```
SELECT NULLIF(25.11, 25);
```

Output:

25.11

```
SELECT NULLIF(115, 115);
```

Output:

Null

10. **SESSION\_USER()**: It returns the user name and host name for the current MySQL user.

**Syntax:**

```
SELECT SESSION_USER();
```

Output:

```
root@localhost
```

11. **SYSTEM\_USER()**: It returns the user name and host name for the current MySQL user.

**Syntax:**

```
SELECT SYSTEM_USER();
```

Output:

```
root@localhost
```

12. **USER()**: It returns the user name and host name for the current MySQL user.

**Syntax:**

```
SELECT USER();
```

Output: root@localhost

13. **VERSION()**: It returns the version of the MySQL database.

**Syntax:**

```
SELECT VERSION();
```

Output:

```
8.0.11
```