# Smit IT Institute

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mysql> SELECT LPAD('APPLE',9,'%') FROM DUAL;

```
+-------------------+
| LPAD('APPLE',9,'%') |
+-------------------+
| %%%%APPLE         |
+-------------------+
```

1 row in set (0.04 sec)

mysql> SELECT RPAD('APPLE',9,'%') FROM DUAL;

```
+-------------------+
| RPAD('APPLE',9,'%') |
+-------------------+
| APPLE%%%%         |
+-------------------+
```

1 row in set (0.00 sec)

mysql> SELECT LPAD(RPAD('APPLE',9,'&'),13,'#') FROM DUAL;

```
+--------------------------------+
| LPAD(RPAD('APPLE',9,'&'),13,'#') |
+--------------------------------+
| ####APPLE&&&&                  |
+--------------------------------+
1 row in set (0.00 sec)
```

mysql> SELECT RPAD('FLOWER',12,'@') FROM DUAL;

```
+----------------------+
| RPAD('FLOWER',12,'@') |
+----------------------+
| FLOWER@@@@@@          |
+----------------------+
1 row in set (0.00 sec)
```

mysql> SELECT LPAD('FLOWER@@@@@@',16,'$')
FROM DUAL;

```
+----------------------------+
| LPAD('FLOWER@@@@@@',16,'$') |
+----------------------------+
| $$$$FLOWER@@@@@@           |
+----------------------------+
```

1 row in set (0.00 sec)


mysql> SELECT LPAD(RPAD('FLOWER',12,'@'),16,'$')
FROM DUAL;

```
+-----------------------------------+
| LPAD(RPAD('FLOWER',12,'@'),16,'$') |
+-----------------------------------+
| $$$$FLOWER@@@@@@                  |
+-----------------------------------+
```

1 row in set (0.00 sec)

------------------------------------------

TASK:

1.###SWEET!!!!!!!!

2. HELLO********

3.&&&&&HELLO$$$

4.%%%%%JAVA

---------------------------------------------

## lower()—Returns Data in Lower Case

mysql> SELECT LOWER('GRASS') FROM DUAL;

```
+----------------+
| LOWER('GRASS') |
+----------------+
| grass          |
+----------------+
```

1 row in set (0.00 sec)

mysql> SELECT LOWER('grass') FROM DUAL;

+----------------+

| LOWER('grass') |

+----------------+

| grass          |

+----------------+

1 row in set (0.00 sec)

------------------------------------------------------

UPPER()—Returns Data In Upper Case

mysql> SELECT UPPER('ABCDE') from dual;

+----------------+

| UPPER('ABCDE') |

+----------------+

| ABCDE          |

+----------------+

1 row in set (0.00 sec)

mysql> SELECT UPPER(1234) from dual;

```
+-------------+
| UPPER(1234) |
+-------------+
| 1234        |
+-------------+
```

1 row in set (0.00 sec)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

mysql> SELECT LOWER(1234) from dual;

```
+-------------+
| LOWER(1234) |
+-------------+
| 1234        |
+-------------+
```

1 row in set (0.00 sec)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

```
mysql> SELECT * FROM ED_RECORD;

+------+---------+-----------+--------+------+-------+
| ID   | NAME    | JOB       | SALARY | COMM | DEPTNO |
+------+---------+-----------+--------+------+-------+
| 101  | SURESH  | MANAGER   | 100000 | 5000 |   20  |
| 102  | ROHIT   | SALES     | 100000 | 5000 |   20  |
| 103  | SUNITA  | QUALITY   |  70000 | 3000 |   20  |
| 104  | GAURI   | OPERATIONS|  80000 | 3500 |   20  |
| 105  | SHRUTIKA| MANAGER   | 150000 | 4500 |   10  |
| 106  | SAHIL   | SALES     | 130000 | 3500 |   10  |
| 107  | SHALAKA | QUALITY   |  64000 | 3500 |   10  |
| 108  | MOHSIN  | OPERATIONS|  55000 | 2500 |   10  |
| 109  | JEET    | MANAGER   | 155000 | 4500 |   30  |
| 110  | YOGESH  | SALES     |  90000 | 3500 |   30  |
| 111  | SMRUTI  | QUALITY   |  55000 | 2500 |   30  |
| 112  | PAYAL   | OPERATIONS|  72000 | 1500 |   30  |
```

```
| 113 | SWAPNIL | MANAGER    | 97000 | 3200 |   40 |
| 114 | SHIRIN  | SALES      | 50000 | 1500 |   40 |
| 115 | SOHAIL  | QUALITY    | 50000 | 2540 |   40 |
| 116 | SURAJ   | OPERATIONS | 83000 | 2700 |   40 |
| 117 | GILL    | SALES      | 34000 | NULL |   50 |
| 118 | SOURABH | OPERATIONS | 41200 |    0 |   50 |
| 119 | ASHISH  | MANAGER    | 53470 | 3700 |   60 |
| 120 | SURESH  | QUALITY    | 41200 |    0 |   70 |
+------+---------+------------+--------+------+-------+
```

20 rows in set (0.01 sec)

# WORKING ON TABLE COLUMN:

mysql> SELECT NAME FROM ED_RECORD;

```
+----------+
| NAME     |
+----------+
| SURESH   |
| ROHIT    |
| SUNITA   |
| GAURI    |
| SHRUTIKA |
| SAHIL    |
| SHALAKA  |
| MOHSIN   |
| JEET     |
| YOGESH   |
| SMRUTI   |
| PAYAL    |
```

```
|SWAPNIL  |
|SHIRIN   |
|SOHAIL   |
|SURAJ    |
|GILL     |
|SOURABH  |
|ASHISH   |
|SURESH   |
+----------+
```

20 rows in set (0.00 sec)

mysql> SELECT LOWER(NAME) FROM ED_RECORD;

```
+-------------+
| LOWER(NAME) |
+-------------+
| suresh      |
| rohit       |
| sunita      |
| gauri       |
| shrutika    |
| sahil       |
| shalaka     |
| mohsin      |
| jeet        |
| yogesh      |
| smruti      |
```

```
| payal       |
| swapnil     |
| shirin      |
| sohail      |
| suraj       |
| gill        |
| sourabh     |
| ashish      |
| suresh      |
+-------------+
```

20 rows in set (0.00 sec)

mysql> SELECT UPPER(NAME) FROM ED_RECORD;

```
+------------+
| UPPER(NAME) |
+------------+
| SURESH      |
| ROHIT       |
| SUNITA      |
| GAURI       |
| SHRUTIKA    |
| SAHIL       |
| SHALAKA     |
| MOHSIN      |
| JEET        |
| YOGESH      |
| SMRUTI      |
| PAYAL       |
| SWAPNIL     |
```

```
| SHIRIN      |

| SOHAIL      |

| SURAJ       |

| GILL        |

| SOURABH     |

| ASHISH      |

| SURESH      |

+------------+
```

20 rows in set (0.00 sec)

----------------------------------------------------------------

mysql> SELECT NAME FROM ED_RECORD;

```
+----------+

| NAME     |

+----------+

| SURESH   |

| ROHIT    |
```

|SUNITA   |

|GAURI    |

|SHRUTIKA |

|SAHIL    |

|SHALAKA  |

|MOHSIN   |

|JEET     |

|YOGESH   |

|SMRUTI   |

|PAYAL    |

|SWAPNIL  |

|SHIRIN   |

|SOHAIL   |

|SURAJ    |

|GILL     |

|SOURABH  |

|ASHISH   |

| SURESH   |

+----------+

20 rows in set (0.00 sec)


mysql> SELECT LOWER(NAME) FROM ED_RECORD;

+-------------+

| LOWER(NAME) |

+-------------+

| suresh      |

| rohit       |

| sunita      |

| gauri       |

| shrutika    |

| sahil       |

| shalaka     |

| mohsin      |

| jeet        |

```
| yogesh      |
| smruti      |
| payal       |
| swapnil     |
| shirin      |
| sohail      |
| suraj       |
| gill        |
| sourabh     |
| ashish      |
| suresh      |
+-------------+
20 rows in set (0.00 sec)
```

mysql> SELECT UPPER(NAME) FROM ED_RECORD;

```
+------------+
| UPPER(NAME) |
+------------+
| SURESH     |
| ROHIT      |
| SUNITA     |
| GAURI      |
| SHRUTIKA   |
| SAHIL      |
| SHALAKA    |
| MOHSIN     |
| JEET       |
| YOGESH     |
| SMRUTI     |
| PAYAL      |
| SWAPNIL    |
```

```
| SHIRIN      |
| SOHAIL      |
| SURAJ       |
| GILL        |
| SOURABH     |
| ASHISH      |
| SURESH      |
+-------------+
```

20 rows in set (0.00 sec)

mysql> SELECT LPAD(NAME,'10','#') FROM ED_RECORD;

```
+--------------------+
| LPAD(NAME,'10','#') |
+--------------------+
| ####SURESH         |
| #####ROHIT         |
| ####SUNITA         |
| #####GAURI         |
| ##SHRUTIKA         |
| #####SAHIL         |
| ###SHALAKA         |
| ####MOHSIN         |
| ######JEET         |
| ####YOGESH         |
| ####SMRUTI         |
| #####PAYAL         |
| ###SWAPNIL         |
```

| ####SHIRIN       |

| ####SOHAIL       |

| #####SURAJ       |

| ######GILL       |

| ###SOURABH        |

| ####ASHISH       |

| ####SURESH        |

+--------------------+

20 rows in set (0.00 sec)


mysql> SELECT RPAD(NAME,'10','$') FROM ED_RECORD;

+--------------------+

| RPAD(NAME,'10','$') |

+--------------------+

| SURESH$$$$         |

| ROHIT$$$$$         |

| SUNITA$$$$         |

| GAURI$$$$$ |
| SHRUTIKA$$ |
| SAHIL$$$$$ |
| SHALAKA$$$ |
| MOHSIN$$$$ |
| JEET$$$$$$ |
| YOGESH$$$$ |
| SMRUTI$$$$ |
| PAYAL$$$$$ |
| SWAPNIL$$$ |
| SHIRIN$$$$ |
| SOHAIL$$$$ |
| SURAJ$$$$$ |
| GILL$$$$$$ |
| SOURABH$$$ |
| ASHISH$$$$ |
| SURESH$$$$ |

```
+--------------------+
```

20 rows in set (0.00 sec)


mysql> SELECT LPAD(RPAD(NAME,'10','#'),20,'*') FROM ED_RECORD;

```
+---------------------------------+
| LPAD(RPAD(NAME,'10','#'),20,'*') |
+---------------------------------+
| **********SURESH####            |
| **********ROHIT#####            |
| **********SUNITA####            |
| **********GAURI#####            |
| **********SHRUTIKA##            |
| **********SAHIL#####            |
| **********SHALAKA###            |
| **********MOHSIN####            |
| **********JEET######            |
| **********YOGESH####            |
```

```
| **********SMRUTI####            |
| **********PAYAL#####            |
| **********SWAPNIL###            |
| **********SHIRIN####           |
| **********SOHAIL####            |
| **********SURAJ#####           |
| **********GILL######           |
| **********SOURABH###             |
| **********ASHISH####            |
| **********SURESH####            |
+--------------------------------+
```

20 rows in set (0.00 sec)

mysql> SELECT NAME FROM ED_RECORD;

```
+----------+
| NAME     |
+----------+
| SURESH   |
| ROHIT    |
| SUNITA   |
| GAURI    |
| SHRUTIKA |
| SAHIL    |
| SHALAKA  |
| MOHSIN   |
| JEET     |
| YOGESH   |
| SMRUTI   |
| PAYAL    |
| SWAPNIL  |
```

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| SHIRIN   |

| SOHAIL   |

| SURAJ    |

| GILL     |

| SOURABH  |

| ASHISH   |

| SURESH   |

+----------+

20 rows in set (0.00 sec)

------------------------------------------------------------------

## TRIM FUNCTION:

1.Its a dual function.

2. syntax:

    SELECT TRIM('CHARACTER' FROM 'STRING') FROM DUAL;

3.STARTING->LEADING.

4.END->TRAILING.

5.TRIM() removes the character from leading and trailing.

*In Order to trim only the first character we can

specify keyword as 'LEADING' IN THE SYNTAX:

mysql> SELECT TRIM(LEADING 'A' FROM 'ASHIYANA') FROM DUAL;

```
+----------------------------------+
| TRIM(LEADING 'A' FROM 'ASHIYANA') |
+----------------------------------+
| SHIYANA                          |
+----------------------------------+
```

1 row in set (0.00 sec)

----------------------------------------------------------------

*In Order to trim only the LAST character we can specify keyword as 'TRAILING' IN THE SYNTAX:

mysql> SELECT TRIM(TRAILING 'A' FROM 'ASHIYANA') FROM DUAL;

```
+----------------------------------+
| TRIM(TRAILING 'A' FROM 'ASHIYANA') |
+----------------------------------+
| ASHIYAN                          |
+----------------------------------+
```

-----------------------------------------------------------

BOTH KEYWORD TARGETS 'LEADING' AS WELL AS 'TRAILING'.

mysql> SELECT TRIM(BOTH 'A' FROM 'ASHIYANA') FROM DUAL;

```
+------------------------------+
| TRIM(BOTH 'A' FROM 'ASHIYANA') |
+------------------------------+
| SHIYAN                       |
+------------------------------+
1 row in set (0.00 sec)
```

----------------------------------------------------------

# WORKING ON TABLE COLUMN:

mysql> SELECT NAME FROM ED_RECORD;

```
+----------+
| NAME     |
+----------+
| SURESH   |
| ROHIT    |
| SUNITA   |
| GAURI    |
| SHRUTIKA |
| SAHIL    |
| SHALAKA  |
| MOHSIN   |
| JEET     |
| YOGESH   |
| SMRUTI   |
```

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```
|PAYAL    |

|SWAPNIL  |

|SHIRIN   |

|SOHAIL   |

|SURAJ    |

|GILL     |

|SOURABH  |

|ASHISH   |

|SURESH   |

+----------+
```

20 rows in set (0.00 sec)

mysql> SELECT TRIM('S' FROM NAME) FROM ED_RECORD;

```
+--------------------+
| TRIM('S' FROM NAME) |
+--------------------+
| URESH              |
| ROHIT              |
| UNITA              |
| GAURI              |
| HRUTIKA            |
| AHIL               |
| HALAKA             |
| MOHSIN             |
| JEET               |
| YOGESH             |
| MRUTI              |
| PAYAL              |
| WAPNIL             |
```

| HIRIN        |
| OHAIL        |
| URAJ         |
| GILL         |
| OURABH       |
| ASHISH       |
| URESH        |
+--------------------+

20 rows in set (0.00 sec)

mysql> SELECT TRIM(TRAILING 'A' FROM NAME) FROM ED_RECORD;

```
+-----------------------------+
| TRIM(TRAILING 'A' FROM NAME) |
+-----------------------------+
| SURESH                      |
| ROHIT                       |
| SUNIT                       |
| GAURI                       |
| SHRUTIK                     |
| SAHIL                       |
| SHALAK                      |
| MOHSIN                      |
| JEET                        |
| YOGESH                      |
| SMRUTI                      |
| PAYAL                       |
```

```
| SWAPNIL          |
| SHIRIN          |
| SOHAIL          |
| SURAJ          |
| GILL          |
| SOURABH          |
| ASHISH          |
| SURESH          |
+----------------------------+
```

20 rows in set (0.00 sec)

-----------------------------------------------------------

* TRIM() CONTINUES TO TRIM UNTIL IT FINDS A NEW ELEAMENT

mysql> SELECT TRIM('-' FROM '-------A')FROM DUAL;

```
+------------------------+
| TRIM('-' FROM '-------A') |
+------------------------+
| A                      |
+------------------------+
1 row in set (0.00 sec)
```

mysql> SELECT TRIM('-' FROM '-------A---------')FROM DUAL;

```
+----------------------------------+
| TRIM('-' FROM '-------A---------') |
+----------------------------------+
| A                                |
+----------------------------------+
1 row in set (0.00 sec)
```

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mysql> SELECT TRIM('S' FROM 'SSSSSSSSURESH')FROM DUAL;

+------------------------------+

| TRIM('S' FROM 'SSSSSSSSURESH') |

+------------------------------+

| URESH                        |

+------------------------------+

1 row in set (0.00 sec)


mysql> SELECT TRIM('S' FROM 'SSSSSSSSURESHSSSSSSSSSS')FROM DUAL;

+-----------------------------------------+

| TRIM('S' FROM 'SSSSSSSSURESHSSSSSSSSSS') |

+-----------------------------------------+

| URESH                                   |

+-----------------------------------------+

1 row in set (0.00 sec)

mysql> SELECT TRIM(LEADING 'S' FROM 'SSSSSSSSURESHSSSSSSSSSS')FROM DUAL;

```
+---------------------------------------------+
| TRIM(LEADING 'S' FROM
'SSSSSSSSURESHSSSSSSSSSS') |
+---------------------------------------------+
| URESHSSSSSSSSSS                             |
+---------------------------------------------+
```

1 row in set (0.00 sec)


mysql> SELECT TRIM(TRAILING 'S' FROM 'SSSSSSSSURESHSSSSSSSSSS')FROM DUAL;

```
+---------------------------------------------+
| TRIM(TRAILING 'S' FROM
'SSSSSSSSURESHSSSSSSSSSS') |
+---------------------------------------------+
| SSSSSSSSURESH                               |
+---------------------------------------------+
```

1 row in set (0.00 sec)

-----------------------------------------------------------------------

## REVERSE(): IT RETURNS THE REVERSE ORDER OF THE GIVEN CONTENT:

mysql> SELECT REVERSE('TOMATO') FROM DUAL;

+------------------+

| REVERSE('TOMATO') |

+------------------+

| OTAMOT           |

+------------------+

1 row in set (0.00 sec)

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mysql> SELECT REVERSE(NAME) FROM ED_RECORD;

```
+---------------+
| REVERSE(NAME) |
+---------------+
| HSERUS        |
| TIHOR         |
| ATINUS        |
| IRUAG         |
| AKITURHS      |
| LIHAS         |
| AKALAHS       |
| NISHOM        |
| TEEJ          |
| HSEGOY        |
| ITURMS        |
| LAYAP         |
| LINPAWS       |
```

| NIRIHS       |

| LIAHOS       |

| JARUS        |

| LLIG         |

| HBARUOS      |

| HSIHSA       |

| HSERUS       |

+--------------+

20 rows in set (0.00 sec)

mysql> SELECT REVERSE(123456789) FROM DUAL;

+-------------------+

| REVERSE(123456789) |

+-------------------+

| 987654321         |

+-------------------+

1 row in set (0.00 sec)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

<mark>LIKE->OPERATOR</mark>

Q1:DIPLAY THE NAME OF EMPLOYEE WHOSE NAME STARTS WITH 'S'?

COLOUM NAME LIKE 'S%';-->INDICATES STRING BEGENING WITH 'S';

%->REMAINING NUMBER OF CHARACTERS

mysql> SELECT NAME FROM ED_RECORD WHERE NAME LIKE 'S%';

```
+----------+
| NAME     |
+----------+
| SURESH   |
| SUNITA   |
```

| SHRUTIKA |

| SAHIL    |

| SHALAKA  |

| SMRUTI   |

| SWAPNIL  |

| SHIRIN   |

| SOHAIL   |

| SURAJ    |

| SOURABH  |

| SURESH   |

+----------+

12 rows in set (0.00 sec)

-------------------------------------------------------------

Q2: DIPLAY NAME OF EMPLOYEE WHOSE NAME ENDS WITH 'A';

SYNTAX:

COLOUMN NAME LIKE '%A'; INDICATES THAT STRING ENDS WITH 'A'.

mysql> SELECT NAME FROM ED_RECORD WHERE NAME LIKE '%A';

```
+----------+
| NAME     |
+----------+
| SUNITA   |
| SHRUTIKA |
| SHALAKA  |
+----------+
```

3 rows in set (0.00 sec)

*************************************************************

Q3:DISPLAY NAME OF EMPLOYEE WHOSE NAME CONTAINS 'N';

SYNATX:

COLOUMN NAME LIKE '%N%';-->INDICATES THE SPECIFIED CHARACTER

IS PRESENT SOMEWHERE IN THE GIVEN STRING.

mysql> SELECT NAME FROM ED_RECORD WHERE NAME LIKE '%N%';

```
+---------+
| NAME    |
+---------+
| SUNITA  |
| MOHSIN  |
| SWAPNIL |
| SHIRIN  |
+---------+
```

*********************************************************************

Q4: DISPLAY THE NAME OF EMPLOYEE WHO NAME CONTAINS ONLY 4 CHARACTER?

SYNTAX:

COLUMN NAME LIKE '____';

-->UNDERSCORE INDICATES NUMBER OF CHARACTERS.

-->UNDERSCORE IS ALSO CALLED AS ESCAPE CHARACTER.

-->% IS A ESCAPE CHARACTER.

mysql> SELECT NAME FROM ED_RECORD WHERE NAME LIKE '____';

```
+------+
| NAME |
+------+
| JEET |
| GILL |
```

+------+

2 rows in set (0.00 sec)

************************************************************

***************

Q5: DIPLAY SALARY,NAME OF EMPLOYEES WHOSE NAME CONTAINS 'P';

mysql> SELECT NAME,SALARY FROM ED_RECORD WHERE NAME LIKE '%P%';

+---------+--------+

| NAME    | SALARY |

+---------+--------+

| PAYAL   | 72000 |

| SWAPNIL | 97000 |

+---------+--------+

2 rows in set (0.00 sec)

----------------------------------------------------------------------------

Q:NUMBER OF SALES IN EACH EACH DEPARTMENT

mysql> SELECT COUNT(JOB), DEPTNO FROM ED_RECORD WHERE JOB='SALES' GROUP BY DEPTNO;

```
+------------+--------+
| COUNT(JOB) | DEPTNO |
+------------+--------+
|          1 |     20 |
|          1 |     10 |
|          1 |     30 |
|          1 |     40 |
|          1 |     50 |
+------------+--------+
5 rows in set (0.00 sec)
```

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