|  |  |
| --- | --- |
| Exp.No.9  Date: | **STRING FUNCTIONS** |

**AIM:**

To perform sql operations by using string functions.

**STRING OPERATIONS USING DUAL TABLE:**

**ASCII(CHR):**

SQL> select ascii('J') as ascii\_value from dual;

ASCII\_VALUE

-----------

74

**VALUE(CHR):**

SQL> select chr(74) as character from dual;

C

-

J

**CONCAT:**

SQL> select concat('Jeevan','sambath') as name from dual;

NAME

----------

Jeevansambath

**UPPERCASE:**

SQL> select upper('Jeevansambath') as name from dual;

NAME

----------

JEEVANSAMBATH

**LOWERCASE:**

SQL> select lower('JEEVANSAMBATH') as name from dual;

NAME

----------

Jeevansambath

**LENGTH(STR):**

SQL> select length('JEEVANSAMBATH') as name from dual;

NAME

----------

14

**TRIM(STR):**

SQL> select trim(' JEEVANSAMBATH ') as name from dual;

NAME

----------

JEEVANSAMBATH

**REPLACE(STR):**

SQL> select replace('Jeevansambath','jeevan','jeeva') as name from dual;

NAME

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

Jeevasambath

**SUBSTR():**

SQL> select substr('Jeevansambath',5,9) as substring from dual;

SUBSTR

------

jeevan

**RPAD():**

SQL> select rpad('Jeevansambath',3) as name from dual;

NAM

---

Jee

**STRING OPERATIONS USING STUDENT TABLE:**

**CONCATING THE RECORDS IN TABLE:**

SQL> select name || ' age is '|| age as stu from student;

STU

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

Jeevansambath age is 18

ani age is 19

pritesh age is 19

naresh age is 17

mithun age is 17

deepak age is 17

deepak age is 19

rupak age is 19

8 rows selected.

**UPPERCASE:**

SQL> select upper(name) as name from student;

NAME

----------

JEEVANSAMBATH

ANI

PRITESH

NARESH

MITHUN

DEEPAK

DEEPAK

RUPAK

**LOWER:**

8 rows selected.

SQL> select lower(name) as n from student;

N

----------

Jeevansambath

ani

pritesh

naresh

mithun

deepak

deepak

7 rows selected.

**LENGTH:**

SQL> select length(name) as l from student;

L

----------

14

3

7

6

6

6

6

5

7 rows selected.

**REPLACE:**

SQL> select replace(name,'naresh','rupak') as n from student;

N

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

Jeevansambath

ani

pritesh

rupak

mithun

deepak

deepak

7 rows selected.

**TRIM:**

SQL> select trim(name) as n from student;

N

----------

Jeevansambath

ani

pritesh

naresh

mithun

deepak

deepak

7 rows selected.

**RTRIM:**

SQL> select rtrim(name) as n from student where id='107';

N

----------

mithun

**LTRIM:**

SQL> select ltrim(name) as n from student where id='107';

N

----------

Mithun

**INSTR:**

SQL> select instr(name,'jeeva') as position from student;

POSITION

----------

5

0

0

0

0

0

0

7 rows selected.

**LEFTPAD:**

SQL> select lpad(name,5,'\*') as leftpad from student;

LEFTPAD

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

jeev

\*ani

prave

mithu

nares

deepak

deepak

7 rows selected.

**RIGHTPAD:**

SQL> select rpad(name,5,'\*') as leftpad from student;

RIGHTPAD

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

jeev

ani\*

prave

mithu

nares

deepa

deepa

7 rows selected.

**REVERSE:**

SQL> select reverse(name) from student;

REVERSE(NA

----------

bathmasnaveej

ina

hsetirp

hseran

nuhitim

kapeed

kapeed

kapur

|  |
| --- |
|  |

7 rows selected.

**EXTRACTING THE DOMAIN OF EMAIL:**

SQL> select substr(email,instr(email,'@')+1) as em from student;

EM

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

gmail.com

gmail.com

gmail.com

gmail.com

gmail.com

gmail.com

gmail.com

7 rows selected.

**CHANGING THE DOMAIN NAME:**

SQL> select replace(email,substr(email,instr(email,'a')+1),'kongu.edu') as from student;

REPLACE(EMAIL,SUBSTR(EMAIL,INSTR(EMAIL,'A')+1),'KONGU.EDU')AS

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

kongu@gmakongu.edu

kongu@gmakongu.edu

kongu@gmakongu.edu

kongu@gmakongu.edu

kongu@gmakongu.edu

kongu@gmakongu.edu

kongu@gmakongu.edu

7 rows selected.

**SEARCHING OPERATIONS:**

**LIKE `**

SQL> select name as name1 from student where name like 'n%';

NAME1

----------

Jeevansambath

mithun

deepak

deepak

**NOTLIKE KEYWORD:**

SQL> select name as name1 from student where name not like 'n%';

NAME1

----------

ani

pritesh

naresh

SELECTING RECORDS USING NULL AND NOT NULL:

**NULL:**

SQL> select \*from student where id is null;

no rows selected

**NOT NULL:**

SQL> select \*from student where id is not null;

ID NAME AGE S DEPT EMAIL

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

109 Jeevansambath 18 B IT kongu@gmail.com

100 ani 19 B IT kongu@gmail.com

119 pritesh 19 B IT kongu@gmail.com

103 naresh 17 B ECE kongu@gmail.com

107 mithun 17 B ECE kongu@gmail.com

108 deepak 17 B IT kongu@gmail.com

110 deepak 19 B IT kongu@gmail.com

7 rows selected.

|  |  |  |
| --- | --- | --- |
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**RESULT:**

Thus various string operations are performed.