Exercise 4 Functions

(4) Write the Queries using student table and employee table

- (a) Conversion functions(to\_char, to\_number & to\_date),using student table
- (b) String functions(Concatenation, Ipad, rpad, Itrim, rtrim, Iower, upper, initcap, length, substr) using employee table.s

**Objective:** The objective of this program is to: know the use of the following functions:

- Conversion functions
- String functions
- Date functions

**Conversion Functions:** Like To\_Char, To\_Number, To\_Date these Are Functions that help us to convert a value in one form to another form.

String functions like concatenation, Lpad, Rpad, Ltrim, Rtrim, Lower, Upper, Initcap, Length, Substr.

Date Functions Like To\_Char, To\_Date.

**Procedure and description:** Conversion functions help us to convert a value in one form to another form. For Example: a null value into an actual value, or a value from one data type to another data type like TO\_CHAR, TO\_NUMBER, TO\_DATE.

- **1. Numeric Functions:** These are functions that accept numeric input and Return numeric values.
- **2) Character or Text Functions:** These are functions that accept character Input and can return both character and number values

**String functions:** string is traditionally a sequence of characters, either as a literal constant or as some kind of variable. The latter may allow its elements to be mutated and/or the length changed, or it may be fixed (after creation). A string is generally understood as a data type and is often implemented as an array of bytes (or words) that stores a sequence of elements, typically characters, using some character encoding.

Function Description

substr Returns a portion of starting at position and char long

upper Converts to uppercase

lower Converts to lowercase

initcap Capitalizes the first character or each word

Itrim Removes blanks at the left-end of a string

rtrim Removes blanks at the right-end of a string

concat Concatenates two strings

length Returns the length of a string

lpad Returns left-padded to lengt with the string

rpad Returns right-padded to length with the string

Table: STRING FUNCTION DESCRIPTION TABLE

### **Queries using Conversion functions:**

## Query using to\_char() function

Write a query to display the student\_name (first character) and student\_number(First digit) using to\_char

select to\_char(column\_name) from where table\_name

#### Write a query to display the current system time

select to\_char(sysdate,'hh24:mm:ssam')from dual;

**DBMS - Practical** Exercise 4 Query using to\_date() function: Write a query to display today's date SELECT Current Date = GETDATE () **Queries using string functions:** Substr() write a query to display the sub string for the word 'oracle' from its position 2 to 3 select substr('oracle',2,3) from dual; Output rac translate() function Write a query to change the 'or' to 'ab' in the word 'corporation' using translate function select translate('corportion','or','ab')from dual; Output Cabpabtian initcap() function Write a query to maintain the first letter as caps using initcap function select initcap('oracle')from dual; Output Oracle

# upper() function

Write a query to display all characters is in caps using upper function

Select upper ('oracle') from dual;

## Output

ORACLE

### lower() function

Write a query to display the all characters in small using lower function.

select lower ('ORACLE') from dual;

#### Output

oracle

# Ipad() function

Write a query to display 'smudde' after leaving 5 blank places using lpad function

select LPAD('smudde',11,'\*')from dual;

### Output

\*\*\*\*\*smudde

(where \* represents here blank spaces)

#### rpad() function

Write a query using RPAD() function to display given string with length of 10, if string characters is less than the length then the remaining space will be filled with '#'. The string name is manipal.

select RPAD('manipal',10,'#')from dual;

#### **Output**

manipal####

### Itrim() function

Write a query to remove blanks at the left-end of a string with abc

select LTRIM(' abc')from dual;

# Output

abc

### rtrim() function

write a query to remove blanks at the right-end of a string with /abc

select RTRIM('/abc ')from dual;

#### Output

abc

#### Queries using date functions

write a query to display to the number of days between any two months using month() function.

select months\_between ('23-aug-2008','16-feb-2009')from dual;

# write a query to add the month with date and year using add months function

select add\_months('3-jan-09',4)from dual;