**Functions**

**Dual Table**

It is pseudo table, not a real one

Have only 1 column named dummy;

Desc dual;

Select user from dual;

Select sysdate from dual;

**Function**

* Self-contained modules of code that accomplish a specific task
* Functions take in data, process it and returns a result.
* Once the function is written it can be used over and over again

**Numeric Functions**

To perform mathematical calculations on numbers

Round() returns numeric expression

Rounded to an integer or to a number of decimal points

Round(49.311321,2) = 49.31

Ceil() Integer value that is greater than or equal to the number

Ceil(48.99) = 49

Power() returns n^2 raised to n^1 power

Power(4,2)= 16

SQRT() returns square root of value

Sqrt(16)=4

Greatest() returns largest of multiple values

Greatest(9,67.7,10) = 67.7

**Character related Functions**

Upper() converts data to upper case upper(‘john’) = JOHN

Lower() coverts data to lower case lower(‘John’) = john

Substr() returns part of string substr(‘James’,2,3)= ame

Decode() returns the value of matching condition

Decode(expression1,search1,result1,

Expression2,search2,result2,

Expression3,search3,result3)

**Date Related Functions**

MONTHS\_BETWEEN() returns number of months between 2 dates

ADD\_MONTHS() add months to a date

LAST\_DAY() returns the last day of month

NEXT\_DAY() returns the next day mentioned in the argument