

Please do the Sheet patiently as it will take some time.

DBMS LAB SHEET - 5

Platform : Oracle DB
Basic SQL Functions

PART – A (First Do This Part)

- RUN THESE QUERIES IN YOUR SYSTEM. (You can copy and Paste, But sometimes copy paste gives error because of quotes issue)
- WRITE OUTPUT OF EACH QUERY ON A4 SHEET ALONG WITH QUESTION/QUERY
- IN CASE OF ANY ERROR, SEARCH THE SYNTAX and CORRECT THE QUERY.

SQL> select upper('gehu') from dual;

SQL> select lower('GEHU') from dual;

SQL> select 'hello world to all' from dual; **Note the output and difference carefully.**

SQL> select initcap('hello world to all') from dual;

SQL> select ' hai' from dual;

SQL> select ltrim(' hai') from dual; **Note the output and difference carefully.**

SQL> select rtrim('hai ') from dual;

SQL> select 'hai ' from dual; **Note the output and difference carefully.**

SQL> select rtrim(' hai ') from dual; **Note the output and difference carefully.**

SQL> select concat('GEHU',' university') from dual;

SQL> select length('GEHU') from dual;

SQL> select replace('GEHU university', 'GEHU','GEU') from dual;

SQL> select substr('UNIVERSITY', 4,6) from dual;

SQL> select rpad('GEHU',10,'*')from dual;

SQL> select lpad('GEHU',10,'*') from dual;

SQL> select Instr('COCOON','O') from dual;

SQL> select replace('Dany','y','ie') from dual;

SQL> select translate('cold','ld','ol') from dual;

SQL> select sysdate from dual;

SQL> select round(sysdate)from dual;

SQL> select add_months(sysdate,3)from dual;

SQL> select last_day(sysdate)from dual;

SQL> select sysdate+20 from dual;

SQL> select next_day(sysdate,'tuesday')from dual;

NUMERIC FUNCTIONS:

SQL> select round(15.6789)from dual;

SQL> select ceil(23.20)from dual;

SQL> select floor(34.56)from dual;

SQL> select trunc(15.56743)from dual;

SQL> select sign(-345)from dual;

SQL> select abs(-70)from dual;

MATH FUNCTIONS:

SQL> select abs(45) from dual;

SQL> select power(10,12) from dual;

SQL> select mod(11,5) from dual;

SQL> select exp(10) from dual;

SQL> select sqrt(225) from dual;

(PTO)

LAB Sheet – 5 : PART – B

AFTER RUNNING ABOVE QUERIES NOW ANSWER THESE QUESTIONS ON A4 SHEETS:

Q1. What are Single Row and Multiple Row Functions in Oracle SQL. Explain in detail.

Q2. Prepare a detailed list and notes on Following Type of Functions:

- Various types of Character Functions
- Various types of Number Functions
- Various types of Date Functions
- Various types of Conversions Functions
- Various types of General Functions
- NVL With example
- NVL2 With example
- CASE With example - Important
- DECODE With example - Important

After Explaining each Type of function, write your own SQL example along with output which you have executed in your System/Laptop etc.