**Practical no.-**7

**Title:**Execute SQL Queries Using Arithmetic,Comparison,Logical,Set,Between and Like Operators.

**Roll No.:** 15 **Batch-** A **Date of Performance:** 24-Sept-22

SQL> conn;

Enter user-name: Aditya

Enter password:

Connected.

**Practical Related Question:**

**1)**

SQL> Select abs(-15) from dual;

ABS(-15)

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15

SQL> Select exp(4) from dual;

EXP(4)

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54.59815

SQL> Select power(4,2) from dual;

POWER(4,2)

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16

SQL> Select mod(10,3) from dual;

MOD(10,3)

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1

SQL> Select sqrt(16) from dual;

SQRT(16)

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4

**2)**

SQL> Select concat('Shreyash','NBA') from dual;

CONCAT('SHR

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ShreyashNBA

SQL> Select ltrim('Shreyasss','s') from dual;

LTRIM('SH

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Shreyasss

SQL> Select Rtrim('Shreyasss','s') from dual;

RTRIM(

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Shreya

SQL> Select lower ('SALES') from dual;

LOWER

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Sales

**3)**

SQL> select sysdate from dual;

SYSDATE

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10-SEP-22

SQL> select next\_day(sysdate,'thur') from dual;

NEXT\_DAY(

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15-SEP-22

SQL> select add\_months(sysdate,2) from dual;

ADD\_MONTH

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10-NOV-22

SQL> select last\_day(sysdate) from dual;

LAST\_DAY(

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30-SEP-22

SQL> select months\_between(sysdate,DATE\_OF\_JOINING)From EMPLOYEE;

MONTHS\_BETWEEN(SYSDATE,DATE\_OF\_JOINING)

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408.786282

408.786282

408.754024

408.754024

**Exercise:**

**1)**

SQL> create table Emp(Emp\_no number(15),E\_name char(20),Dept\_no number(15),Dept\_name char(15),Job\_id number(15),Salary number(10,2),hiredate date);

Table created.

SQL> select \* from Emp;

EMP\_NO E\_NAME DEPT\_NO DEPT\_NAME JOB\_ID SALARY HIREDATE

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101 Onkar 21 Sales 1 48000 21-AUG-02

102 Ashish 22 Testing 2 34000 20-JAN-00

103 Sonali 23 Production 3 18000 26-MAR-08

104 Ashish 24 Sales 4 22000 05-JAN-10

105 Shreyash 25 Production 5 28000 19-JAN-18

SQL> create table Dept(E\_name char(20),Dept\_no number(15),Location char(15));

Table created.

SQL> select \* from dept;

E\_NAME DEPT\_NO LOCATION

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Onkar 21 Mumbai

Ashish 22 Chennai

Sonali 23 Agra

Ashish 24 Pune

Shreyash 25 Nagpur

SQL> select \* from emp where salary>(select avg(salary) from emp);

EMP\_NO E\_NAME DEPT\_NO DEPT\_NAME JOB\_ID SALARY HIREDATE

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101 Onkar 21 Sales 1 48000 21-AUG-02

102 Ashish 22 Testing 2 34000 20-JAN-00

SQL> select E.E\_name,D.location from Emp E join Dept D on (E.Dept\_no=D.Dept\_no) where E.Dept\_name='Sales';

E\_NAME LOCATION

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Onkar Mumbai

Ashish Pune

SQL> select max(Salary),min(Salary) from Emp;

MAX(SALARY) MIN(SALARY)

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48000 18000

SQL> select Dept\_name,sum(Salary) from Emp group by Dept\_name having Dept\_name='Production';

DEPT\_NAME SUM(SALARY)

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Production 46000

SQL> select E\_name,to\_char(hiredate,'Mon dd yyyy') from Emp;

E\_NAME TO\_CHAR(HIREDATE,'MO

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Onkar Aug 21 2002

Ashish Jan 20 2000

Sonali Mar 26 2008

Ashish Jan 05 2010

Shreyash Jan 19 2018

SQL> select months\_between((select hiredate from Emp where E\_name='Shreyash'),(select hiredate from Emp where E\_name='Ashish')) from Emp;

MONTHS\_BETWEEN((SELECTDATEOFJOININGFROMEMP5WHEREE\_NAME='SHREYASH'),(SELECTDATEOFJOININGFROMEMP5WHEREE\_NAME='ASHISH'))

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2.80645161

2.80645161

2.80645161

2.80645161

2.80645161

2.80645161

6 rows selected.

SQL> select months\_between((select dateofjoining from Emp5 where E\_name=' Shreyash '),(select dateofjoining from Emp5 where E\_name=' Ashish ')) from dual;

MONTHS\_BETWEEN((SELECTDATEOFJOININGFROMEMP5WHEREE\_NAME='SHREYASH'),(SELECTDATEOFJOININGFROMEMP5WHEREE\_NAME=' ASHISH '))

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2.80645161

**2)**

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

UPPER('PRO

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PRODUCTION

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

LENGTH('SALES')

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5

SQL> select substr('production sales',3,4) from dual;

SUBS

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oduc

SQL> select instr('production','ro',3,2) from dual;

INSTR('PRODUCTION','RO',3,2)

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0

SQL> select greatest('10-JAN-07','12-OCT-07')from dual;

GREATEST(

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12-OCT-07

SQL> select to\_date('01-Jan-2014')+1 from dual;

TO\_DATE('

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02-JAN-14