

## PRACTICAL 7

7	Perform queries using Math function:- abs(),ceil(),floor(),mod(),pow(),sqrt(),round()
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```
=====
CREATE TABLE employees1400 (
    emp_id    NUMBER,
    emp_name  VARCHAR(10),
    salary    NUMBER(10,2),
    bonus     NUMBER(10,2)
);
```

```
INSERT INTO employees1400 VALUES (1, 'Krishna', 25400.75, 1500.50);
INSERT INTO employees1400 VALUES (2, 'Rahul', -18300.40, 2500.00);
INSERT INTO employees1400 VALUES (3, 'Amit', 32000.00, 500.25);
INSERT INTO employees1400 VALUES (4, 'Sneha', 27550.30, 1200.00);
INSERT INTO employees1400 VALUES (5, 'Rohit', -15000.80, 1000.00);
```

```
COMMIT;
```

```
SELECT emp_name, salary, ABS(salary) AS abs_salary
FROM employees1400;
```

```
SELECT emp_name, salary, CEIL(salary) AS ceil_salary
FROM employees1400;
```

```
SELECT emp_name, salary, FLOOR(salary) AS floor_salary
FROM employees1400;
```

```
SELECT emp_name, salary, MOD(salary, 1000) AS mod_salary_1000
FROM employees1400;
```

```
SELECT emp_name, salary, POWER(salary, 2) AS salary_squared
FROM employees1400;
```

```
SELECT emp_name, salary, SQRT(ABS(salary)) AS sqrt_abs_salary
FROM employees1400;
```

```
SELECT emp_name, salary, ROUND(salary) AS rounded_salary
FROM employees1400;
```

## PRACTICAL 7

```
SQL Plus
SQL> CREATE TABLE employees1400 (
  2     emp_id    NUMBER,
  3     emp_name  VARCHAR(10),
  4     salary    NUMBER(10,2),
  5     bonus     NUMBER(10,2)
  6 );

Table created.

SQL>
SQL> INSERT INTO employees1400 VALUES (1, 'Krishna', 25400.75, 1500.50);

1 row created.

SQL> INSERT INTO employees1400 VALUES (2, 'Rahul', -18300.40, 2500.00);

1 row created.

SQL> INSERT INTO employees1400 VALUES (3, 'Amit', 32000.00, 500.25);

1 row created.

SQL> INSERT INTO employees1400 VALUES (4, 'Sneha', 27550.30, 1200.00);

1 row created.

SQL> INSERT INTO employees1400 VALUES (5, 'Rohit', -15000.80, 1000.00);

1 row created.

SQL>
SQL> COMMIT;

Commit complete.
```

## PRACTICAL 7

```
SQL Plus

SQL> SELECT emp_name, salary, ABS(salary) AS abs_salary
2 FROM employees1400;

EMP_NAME      SALARY ABS_SALARY
-----
Krishna      25400.75  25400.75
Rahul       -18300.4   18300.4
Amit         32000    32000
Sneha       27550.3   27550.3
Rohit       -15000.8   15000.8

SQL>
SQL> SELECT emp_name, salary, CEIL(salary) AS ceil_salary
2 FROM employees1400;

EMP_NAME      SALARY CEIL_SALARY
-----
Krishna      25400.75   25401
Rahul       -18300.4  -18300
Amit         32000    32000
Sneha       27550.3   27551
Rohit       -15000.8  -15000

SQL>
SQL> SELECT emp_name, salary, FLOOR(salary) AS floor_salary
2 FROM employees1400;

EMP_NAME      SALARY FLOOR_SALARY
-----
Krishna      25400.75   25400
Rahul       -18300.4  -18301
Amit         32000    32000
Sneha       27550.3   27550
Rohit       -15000.8  -15001

SQL>
SQL> SELECT emp_name, salary, MOD(salary, 1000) AS mod_salary_1000
2 FROM employees1400;

EMP_NAME      SALARY MOD_SALARY_1000
-----
Krishna      25400.75    400.75
Rahul       -18300.4   -300.4
Amit         32000      0
Sneha       27550.3    550.3
Rohit       -15000.8   -0.8
```

## PRACTICAL 7

```
SQL Plus
SQL> SELECT emp_name, salary, POWER(salary, 2) AS salary_squared
2 FROM employees1400;

EMP_NAME      SALARY  SALARY_SQUARED
-----
Krishna      25400.75      645198101
Rahul       -18300.4       334904640
Amit         32000       1024000000
Sneha       27550.3       759019030
Rohit       -15000.8       225024001

SQL>
SQL> SELECT emp_name, salary, SQRT(ABS(salary)) AS sqrt_abs_salary
2 FROM employees1400;

EMP_NAME      SALARY  SQRT_ABS_SALARY
-----
Krishna      25400.75      159.376127
Rahul       -18300.4       135.278971
Amit         32000       178.885438
Sneha       27550.3       165.98283
Rohit       -15000.8       122.477753

SQL>
SQL> SELECT emp_name, salary, ROUND(salary) AS rounded_salary
2 FROM employees1400;

EMP_NAME      SALARY  ROUNDED_SALARY
-----
Krishna      25400.75      25401
Rahul       -18300.4      -18300
Amit         32000       32000
Sneha       27550.3       27550
Rohit       -15000.8      -15001
```