

PRACTICAL 7

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Perform queries using Math function:-
abs(),ceil(),floor(),mod(),pow(),sqrt(),round()

```
=====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;
```

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```
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.
```

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```
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     -.8
```

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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