LAB 4

Upper Function:

```
employee=# select upper(name) from employees;
      upper
---------------
 ALBERT HOLMES
 JANE SMITH
 ALICE JOHNSON
(3 rows)
```

Lower Function:

```
employee=# select lower(name) from employees;
      lower
---------------
 albert holmes
 jane smith
 alice johnson
(3 rows)
```

Character Manipulation Functions using Using LPAD and RPAD:

```
employee=# SELECT name, lower(name), length(name), position('a' in name), CONCAT(id::text, name), rpad(name,
 7, '*') FROM employees WHERE upper(position) = 'MANAGER';
     name      |     lower      | length | position |     concat      | rpad
---------------+----------------+--------+----------+----------------+---------
 Albert Holmes | albert holmes |     13 |        0 | 1Albert Holmes | Albert
(1 row)
```

```
employee=# SELECT name, lower(name), length(name), position('s' in name), CONCAT(id::text, name), lpad(name,
 7, '*') FROM employees WHERE upper(position) = 'DESIGNER';
     name      |     lower      | length | position |     concat      | lpad
---------------+----------------+--------+----------+----------------+---------
 Alice Johnson | alice johnson |     13 |       11 | 3Alice Johnson | Alice J
(1 row)
```

Substring Function:

```
INSERT 0 3
employee=# SELECT SUBSTRING(name FROM 1 FOR 2) FROM employees;
 substring
-----------
 Al
 Ja
 Al
 Ja
 Ch
 Ju
(6 rows)
```

Round off:

```
employee=# SELECT ROUND(45.923);
 round
-------
    46
(1 row)


employee=# SELECT ROUND(45.923 , 2);
 round
-------
 45.92
(1 row)


employee=# SELECT ROUND(45.923 , -1);
 round
-------
    50
(1 row)
```

Truncate:

```
employee=# SELECT TRUNC(45.923 , -1);
 trunc
-------
    40
(1 row)


employee=# SELECT TRUNC(45.923 , 1);
 trunc
-------
  45.9
(1 row)
```

Truncate with Date:

```
employee=# SELECT DATE_TRUNC('MONTH', CURRENT_DATE);
       date_trunc
------------------------
 2024-05-01 00:00:00+05
(1 row)


employee=# SELECT DATE_TRUNC('YEAR', CURRENT_DATE);
       date_trunc
------------------------
 2024-01-01 00:00:00+05
(1 row)
```

Modulus:

```
employee=# SELECT 10 % 3 as "MOD";
 MOD
-----
   1
(1 row)
```