LIKE Operator

The **LIKE** command is used in a **WHERE** clause to search for a specified pattern in a column.

You can use two wildcards with LIKE:

- % - Represents zero, one, or multiple characters
- _ - Represents a single character (MS Access uses a question mark (?) instead)

Scenario 1: Write a query to display first name and last name of the employee whose first name starts with 'AN'

Here we need to match first two characters as an after that any number of characters means **'an%'is the pattern matching**

```
SELECT
    first_name,last_name
FROM
    employee
WHERE
    first_name
LIKE 'an%';
```

Output:

first_name	last_name
andy	lumb
anjel	nair

Scenario 2: Write a query to display the first name and last name of the employee whose first name has the second character 'o'.

Here we are matching for second character as o, so there should be any single character before o(_o) and after o any number of characters so **'_o%' is the pattern matching**

```sql
SELECT
    first_name,last_name
FROM
    employee
WHERE
    first_name
LIKE '_o%';
```

Output:

first_name	last_name
tom	taylor
rohan	sharma
john	king

Scenario 3: Write a query to display first name and last name of the employee whose last name ends with 'r'

```sql
SELECT first_name,last_name FROM sql_notes.employee WHERE
last_name LIKE '%r';
```

Output:

first_name	last_name
tom	taylor
anjel	nair
ram	kumar

Scenario 4: Write a query to display first name and last name of the employee whose last name contain substring 'MA'

```sql
SELECT first_name,last_name FROM sql_notes.employee WHERE
last_name LIKE '%ma%';
```

Output:

first_name	last_name
ram	kumar
rohan	sharma

Scenario 5: Write a query to display first name and last name of the employee whose first name begins with 'r' and at least 3 characters in length

```sql
SELECT first_name,last_name FROM sql_notes.employee WHERE
first_name LIKE 'r__%';
```

Output

first_name	last_name
ram	kumar

rohan	sharma

Scenario 6: Write a query to display first name and last name of the employee whose first name begins contains 'A'

```sql
SELECT
    first_name, last_name
FROM
    employee
WHERE
    first_name
LIKE '%a%';
```

Output:

first_name	last_name
andy	lumb
anjel	nair
ram	kumar
rohan	sharma

Scenario 7: Write a query to display first name and last name of the employee whose last name has last third character 'L'

```sql
SELECT
        first_name,last_name
```

```
FROM
        employee
WHERE
        last_name LIKE '%l__';
```

Output:

first_name	last_name
tom	taylor
mike	whalen

Scenario 8: Write a query to display first name and last name of the employee whose last name has third character and last character 'a'

```
SELECT
      first_name,last_name
FROM
      employee
WHERE
    last_name LIKE '__a%a';
```

Output:

first_name	last_name
rohan	sharma

Scenario 9: Write a query to display first name and last name of the employee whose first name has two consecutive 'll'

```
SELECT
      first_name,last_name
```

```
FROM
      employee
WHERE
      first_name LIKE '%ll%';
```

Output:

first_name	last_name
kelly	davis

Scenario 10: Write a query to display first name and last name of the employee whose first name is 5 characters long and has third character 'h'

```
SELECT
      first_name,last_name
FROM
      employee
WHERE
      first_name LIKE '__h__';
```

Output:

first_name	last_name
rohan	sharma

Scenario 11: Write a query to display first name and last name of the employee whose last name consists of character 'a' twice in it

```
SELECT
```

```
        first_name,last_name
FROM
        employee
WHERE
        last_name LIKE '%a%a%';
```

Output:

first_name	last_name
rohan	sharma

Scenario 12: Write a query to display first name, last name and salary of the employee who are earning 6 digit salary

```
SELECT
        first_name,last_name,salary
FROM
        employee
WHERE
        salary LIKE '_____';
```

Output:

first_name	last_name	salary
john	king	124200

Scenario 13: Write a query to display first name, last name and salary of the employee whose salary starts with 4

```
SELECT
        first_name,last_name,salary
FROM
        employee
WHERE
      salary LIKE '4%';
```

Output:

first_name	last_name	salary
andy	lumb	42200
anjel	nair	42200

Scenario 14: Write a query to display first name, last name and hire date of the employee who are hired in the year 2018

```
SELECT first_name,last_name,hire_date
FROM employee
WHERE hire_date LIKE '2018%';
```

Output:

first_name	last_name	hire_date
ram	kumar	2018-12-26

Scenario 15: Write a query to display first name, last name and hire date of the employee who are hired in the month of february

```
SELECT first_name,last_name,hire_date
FROM employee
WHERE hire_date LIKE '____-02%';
```

Output:

first_name	last_name	hire_date
andy	lumb	2021-02-27
rohan	sharma	2021-02-09

john	king	2021-02-09

Scenario 16: Write a query to display first name, last name and hire date of the employee whose salary has last 3 digit as 0's

```sql
SELECT
        first_name,last_name,salary
FROM
      employee
WHERE
      salary LIKE '%000';
```

Output:

first_name	last_name	salary
kelly	davis	78000