

# Like Operator with escape keyword

1. Query the first name and last name of employees whose first name is not 5 characters long

NOT LIKE will fetch all the data that will not match the pattern

```
SELECT
   first_name,last_name
FROM
   employee
WHERE
   First_name NOT LIKE '____';
```

## **Output:**

first_name	last_name
tom	taylor
mike	whalen
andy	lumb
ram	kumar
john	king

2. Query the first name and last name of employees whose first name does not begin with 'A'

```
SELECT
    first_name,last_name
FROM
    employee
WHERE
    first_name NOT LIKE 'a%';
```



# **Output:**

first_name	last_name
kelly	davis
tom	taylor
mike	whalen
ram	kumar
rohan	sharma
john	king

3. Query the first name and last name of employees whose first name ends with 'n' but does not begin with 'A'

```
SELECT
   first_name,last_name
FROM
   employee
WHERE
   first_name
       LIKE '%n' AND first_name NOT LIKE 'a%';
```

first_name	last_name
rohan	sharma
john	king



### ESCAPE KEYWORD WITH LIKE OPERATOR:

The ESCAPE keyword is used to **escape pattern matching characters** such as the (%) percentage and underscore (\_) if they form part of the data.

Before we understand escape keyword with an example let us include one record with the special character using UPDATE query

4. Query the first name and email id of employees with email id's containing \_ in it

```
SELECT
    first_name, email
FROM
    employee
WHERE
    email LIKE '%#_%' ESCAPE '#';
```

In this query, the ESCAPE clause specified that the character# is the escape character. It instructs the LIKE operator to treat the \_ character as a literal string instead of a wildcard. Note that without the ESCAPE clause, the query would return an empty result set.

first_name	email
john	jo%%\$@gmail.com



5. Display the first name and email id of employees with email ids containing % in it

```
SELECT
    first_name, email
FROM
    employee
WHERE
    email
LIKE '%1%%' ESCAPE '1';
```

In this query, the ESCAPE clause specified that the character 1 is the escape character. It instructs the LIKE operator to treat the % character as a literal string instead of a wildcard. Note that without the ESCAPE clause, the query would return an empty result set.

## **Output:**

first_na me	email
john	jo%%\$@gmail.com

6. Display the first name, email id of employees with email ids containing two consecutive \_\_ in it

```
SELECT
  first_name, email
FROM
  employee
WHERE
  email
LIKE '%#_#_%' ESCAPE '#';
```

first_name
------------



john	jo%%\$@gmail.com
------	------------------

7. Display the first name, email id of employees with email ids containing two \_\_ in it

```
SELECT
  first_name, email
FROM
  employee
WHERE
  email
LIKE '%#_%#_%' ESCAPE '#';
```

first_name	email
john	jo%%\$@gmail.com



## **Hackerrank Queries**

### 1. Weather Observation station 3

https://www.hackerrank.com/challenges/weather-observation-station-3/problem?isFullScreen=true

Query a list of CITY names from STATION for cities that have an even ID number. Print the results in any order, but exclude duplicates from the answer.

The STATION table is described as follows:

## STATION

Field	Туре
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where LAT\_N is the northern latitude and LONG\_W is the western longitude.

#### **Solution**

```
SELECT DISTINCT

CITY

FROM

STATION

WHERE ID%2 =0;
```

Here DISTINCT Keyword is used as they are asking for unique values in the result. We are trying to fetch the values where the ID is an even number so we are checking when the number divided by 2 remainder will be zero or not.



https://www.hackerrank.com/challenges/weather-observation-station-6/problem?isFullScreen=true

Query the list of CITY names starting with vowels (i.e., a, e, i, o, or u) from STATION. Your result cannot contain duplicates.

# **Input Format**

The STATION table is described as follows:

## STATION

Field	Туре
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where LAT\_N is the northern latitude and LONG\_W is the western longitude.

```
SELECT DISTINCT
CITY

FROM
STATION

WHERE
(CITY LIKE 'A%' OR CITY LIKE 'E%' OR CITY LIKE 'I%' OR CITY LIKE
'O%' OR CITY LIKE 'U%');
```



https://www.hackerrank.com/challenges/weather-observation-station-9/problem?isFullScreen=true

Query the list of CITY names from STATION that do not start with vowels.

Your result cannot contain duplicates.

# **Input Format**

The STATION table is described as follows:

## STATION

Field	Туре
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where LAT\_N is the northern latitude and LONG\_W is the western longitude

```
SELECT DISTINCT
CITY

FROM
STATION
WHERE NOT
(CITY LIKE 'A%' OR CITY LIKE 'E%' OR CITY LIKE 'I%' OR CITY LIKE '0%' OR CITY LIKE 'U%');
```



https://www.hackerrank.com/challenges/weather-observation-station-7/problem?isFullScreen=true

Query the list of CITY names ending with vowels (a, e, i, o, u) from STATION.

Your result cannot contain duplicates.

# **Input Format**

The STATION table is described as follows:

## STATION

Field	Туре
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where LAT\_N is the northern latitude and LONG\_W is the western longitude.

```
SELECT DISTINCT
CITY

FROM
STATION

WHERE
(CITY LIKE '%A' OR CITY LIKE '%E' OR CITY LIKE '%I' OR CITY LIKE '%O' OR CITY LIKE '%U');
```



https://www.hackerrank.com/challenges/weather-observation-station-10/problem?isFullScreen=true

Query the list of CITY names from STATION that do not end with vowels.

Your result cannot contain duplicates.

# **Input Format**

The STATION table is described as follows:

## STATION

Field	Туре
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where LAT\_N is the northern latitude and LONG\_W is the western longitude.

```
SELECT DISTINCT
CITY

FROM
STATION

WHERE NOT
(CITY LIKE '%A' OR CITY LIKE '%E' OR CITY LIKE '%I' OR CITY LIKE '%O' OR CITY LIKE '%U');
```