Name: shreya bansal Prn: 23070521144

Batch: b2

Extracting data using patterns

Note: In sample code, change the table name and attributes according to your code.

SQL LIKE Operator

The LIKE operator is used in a WHERE clause to search for a specified pattern in a column. There are two wildcards often used in conjunction with the LIKE operator: • The percent sign % represents zero, one, or multiple characters • The underscore sign _ represents one, single character

Example

Select all customers that starts with the letter "a":

SELECT * FROM Customers

WHERE CustomerName LIKE 'a%';

Demo Database

Demo Databas	'								
CustomerID CustomerName ContactName Address City PostalCode Country									
1 Alfreds									
			Maria Anders	Obere Str. 57 Be	rlin 12209 Germany				
	Futterkiste								
2 Ana Trujillo									
	Ana Trujillo Avda. de la								
				México					
					05021 Mexico				
	Emparedados y								
			Constitución						
				D.F.					
	helados								
			2222						
2 Antonio									
3 Antonio		Antonio							
		Ancomo	Mataderos						
				México					

	Moreno	Moreno			05023 Mexico	
	,		2312			
	Taquería			D.F.		
4 Around the		Thomas	120 Hanover			
	Horn	Hardy	Sq.		London WA1 1DP UK	
5 Berglunds		Christina	Berguvsvägen			
	snabbköp	Berglund	8		Luleå S-958 22 Sweden	

The _ Wildcard

The _ wildcard represents a single character.

It can be any character or number, but each _ represents one, and only one, character.

Example

Return all customers from a city that starts with 'L' followed by one wildcard character, then 'nd' and then two wildcard characters:

SELECT * FROM Customers

WHERE city LIKE 'L_nd__';

The % Wildcard

The % wildcard represents any number of characters, even zero characters.

Example

Return all customers from a city that contains the letter 'L':

SELECT * FROM Customers

WHERE city LIKE '%L%';

Starts With

To return records that starts with a specific letter or phrase, add the % at the end of the letter or phrase.

Example

Return all customers that starts with 'La':

SELECT * FROM Customers

WHERE CustomerName LIKE 'La%';

Tip: You can also combine any number of conditions using AND or OR operators.

Example

Return all customers that starts with 'a' or starts with 'b':

SELECT * FROM Customers

WHERE CustomerName LIKE 'a%' OR CustomerName LIKE 'b%';

Ends With

To return records that ends with a specific letter or phrase, add the % at the beginning of the letter or phrase.

Example

Return all customers that ends with 'a': SELECT * FROM Customers WHERE CustomerName LIKE '%a';

Tip: You can also combine "starts with" and "ends with":

Example

Return all customers that starts with "b" and ends with "s":

SELECT * FROM Customers

WHERE CustomerName LIKE 'b%s';

Contains

To return records that contains a specific letter or phrase, add the % both before and after the letter or phrase.

Example

Return all customers that contains the phrase 'or'
SELECT * FROM Customers

WHERE CustomerName LIKE '%or%';

Combine Wildcards

Any wildcard, like % and _ , can be used in combination with other wildcards.

Example

Return all customers that starts with "a" and are at least 3 characters in length: SELECT * FROM Customers

WHERE CustomerName LIKE 'a__%';

Example

Return all customers that have "r" in the second position: SELECT * FROM Customers WHERE CustomerName LIKE '_r%';

Without Wildcard

If no wildcard is specified, the phrase has to have an exact match to return a result.

Example

Return all customers from Spain: SELECT * FROM Customers WHERE Country LIKE 'Spain';