

University of Central Florida

CGS 2545

Database Concepts

DEPARTMENT OF ELECTRICAL ENGINEERING & COMPUTER SCIENCE
COMPUTER SCIENCE DIVISION

Wildcard Operators

- We have already discussed about the SQL LIKE operator, which is used to compare a value to similar values using the wildcard operators.
- SQL supports two wildcard operators in conjunction with the LIKE operator which are explained in detail in the following table.

Wildcard Operators

- **The percent sign (%)**
 - Matches one or more characters.
 - The percent sign represents zero, one or multiple characters.
 - **Note** – MS Access uses the asterisk (*) wildcard character instead of the percent sign (%) wildcard character.
- **The underscore (_)**
 - Matches one character.
 - **Note** – MS Access uses a question mark (?) instead of the underscore (_) to match any one character.
 - The underscore represents a single number or a character.
- These symbols can be used in combinations.

Wildcard Operators

```
SELECT FROM table_name  
WHERE column LIKE 'XXXX%'
```

or

```
SELECT FROM table_name  
WHERE column LIKE '%XXXX%'
```

or

```
SELECT FROM table_name  
WHERE column LIKE 'XXXX_'
```

or

```
SELECT FROM table_name  
WHERE column LIKE '_XXXX'
```

or

```
SELECT FROM table_name  
WHERE column LIKE '_XXXX_'
```

Wildcard Operators

- **WHERE SALARY LIKE '200%'**
 - Finds any values that start with 200.
- **WHERE SALARY LIKE '%200%'**
 - Finds any values that have 200 in any position.
- **WHERE SALARY LIKE '_00%'**
 - Finds any values that have 00 in the second and third positions.
- **WHERE SALARY LIKE '2_%_%'**
 - Finds any values that start with 2 and are at least 3 characters in length.

Wildcard Operators

- **WHERE SALARY LIKE '%2'**
 - Finds any values that end with 2.
- **WHERE SALARY LIKE '_2%3'**
 - Finds any values that have a 2 in the second position and end with a 3.
- **WHERE SALARY LIKE '2___3'**
 - Finds any values in a five-digit number that start with 2 and end with 3.

Wildcard Operators

- Let us take a real example, consider the CUSTOMERS table having the following records.

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00
7	Muffy	24	Indore	10000.00

Wildcard Operators

- The following code block is an example, which would display all the records from the CUSTOMERS table where the SALARY starts with 200.

```
SQL> SELECT * FROM CUSTOMERS  
WHERE SALARY LIKE '200%';
```

+-----+-----+-----+-----+-----+					
ID	NAME	AGE	ADDRESS	SALARY	
+-----+-----+-----+-----+-----+					
1	Ramesh	32	Ahmedabad	2000.00	
3	kaushik	23	Kota	2000.00	
+-----+-----+-----+-----+-----+					