

Slide 1: Working with Text Strings

Working with Text Strings

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EXTENSION

Slide 2: Learning Objectives

Learning Objectives

Concatenate, or combine text strings

Trim text strings

Use the substring function and

Change the case of your strings

Slide 3: Working with String Variables

Working with String Variables

Retrieve the data in the format you need
Client vs server formatting

Support Joins

String Functions:

- Concatenate
- Substring
- Trim
- Upper
- Lower

Slide 4: Concatenations

Concatenations

Note:

SQL server supports + instead of ||

```
SELECT
  CompanyName
  ,ContactName
  ,CompanyName || ' (' || ContactName || ')'
FROM customers
```

	CompanyName	ContactName	CompanyName ' (' ContactName ')'
1	Alfreds Futterkiste	Maria Anders	Alfreds Futterkiste (Maria Anders)
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Ana Trujillo Emparedados y helados (Ana Trujillo)
3	Antonio Moreno Taquería	Antonio Moreno	Antonio Moreno Taquería (Antonio Moreno)
4	Around the Horn	Thomas Hardy	Around the Horn (Thomas Hardy)
5	Berglunds snabbköp	Christina Berglund	Berglunds snabbköp (Christina Berglund)
6	Blauer See Delikatessen	Hanna Moos	Blauer See Delikatessen (Hanna Moos)
7	Blondesddsl père et fils	Frédérique Citeaux	Blondesddsl père et fils (Frédérique Citeaux)
8	Bólido Comidas preparadas	Martín Sommer	Bólido Comidas preparadas (Martín Sommer)
9	Bon app'	Laurence Lebihan	Bon app' (Laurence Lebihan)
10	Bottom-Dollar Markets	Elizabeth Lincoln	Bottom-Dollar Markets (Elizabeth Lincoln)
11	B's Beverages	Victoria Ashworth	B's Beverages (Victoria Ashworth)
12	Cactus Comidas para llevar	Patricio Simpson	Cactus Comidas para llevar (Patricio Simpson)
13	Centro comercial Moctezuma	Francisco Chang	Centro comercial Moctezuma (Francisco Chang)
14	Chop-suey Chinese	Yang Wang	Chop-suey Chinese (Yang Wang)
15	Comércio Mineiro	Pedro Afonso	Comércio Mineiro (Pedro Afonso)

Slide 5: Trimming Strings

Trimming Strings

Trims the leading or trailing space from a string

TRIM

RTRIM

LTRIM

```
SELECT TRIM("      SQL  
Tutorial    ") AS TrimmedString;
```

Slide 6: Substring

Substring

Returns the specified number of characters from a particular position of a given string

First_name	substr(first_name,2,3)
Alexander	lex
Bruce	ruc
David	avi
Valli	all
Diana	ian

```
SUBSTR(string name, string  
position, number of  
characters to be returned);
```

```
SELECT first_name, SUBSTR  
(first_name,2,3)  
FROM employees  
WHERE department_id=60;
```

Slide 7: Substring Example

Substring Example

```
SELECT first_name,  
       SUBSTR(first_name,1,3)  
FROM employees  
WHERE department_id=100;
```

First_name	substr(first_name ,1,3)
Nancy	Nan
Daniel	Dan
Andrew	And
Margaret	Mar
Jose	Jos
Michael	Mic
Robert	Rob
Luis	Lui
Anne	Ann

Slide 8: Substring Example

Substring Example

```
SELECT first_name,  
       SUBSTR(first_name,1,3)  
FROM employees  
WHERE department_id=100;
```

First_name	substr(first_name ,1,3)
Nancy	Nan
Daniel	Dan
Andrew	And
Margaret	Mar
Jose	Jos
Michael	Mic
Robert	Rob
Luis	Lui
Anne	Ann

Slide 9: Upper and Lower

Upper and Lower

```
SELECT UPPER(column_name) FROM table_name;
```

```
SELECT LOWER(column_name) FROM table_name;
```

```
SELECT UCASE(column_name) FROM table_name;
```