Case conversion functions UPPER, LOWER, INITCAP

SELECT LOWER( firstname),LOWER( lastname)

FROM customers

Character manipulation functions SUBSTR, INSTR, LENGTH, LPAD/RPAD, LTRIM/ RTRIM, REPLACE, TRANSLATE, CONCAT

* SUBSTR is used to return a portion of an a expression.
  + You supply the expression to examine as the first argument
  + followed by the beginning position of the expression to return.
  + The third argument dictates how many characters to return. If omitted, all remaining characters are returned.

SELECT SUBSTR(firstname, 1,3),firstname,SUBSTR(lastname, 3,5),lastname

FROM customers

* INSTR (str ,chars [, n, m])
* **INSTR is used to search a character expression and return the position where another expression was found.**
* **It returns 0 if the second expression is not found.**
* **Optionally,** 
  + **you can specify a starting position of n to search from**
  + **and you can also specify which occurrence m to return.**

SELECT INSTR(firstname,'A'),firstname,SUBSTR(lastname, 3,5),lastname

FROM customers

LENGTH Function

LPAD and RPAD Functions LPAD (str, n [,chars] )RPAD (str, n [,chars])

SELECT LPAD(firstname, 8,' '),firstname, RPAD(lastname, 10,'\*'),lastname

FROM customers

RTRIM (str [,chars])

SELECT LTRIM(firstname,'T'),firstname, RTRIM(lastname,'N'),lastname

FROM customers

TRIM (str)

**Trim will trim spaces from both sides**

**TRIM (‘ Monroe ‘) → ‘Monroe’**

REPLACE Function

* Substitutes a string with another specified string

SELECT REPLACE(firstname,'T','The letter T'),firstname, REPLACE(lastname,'N','THE LETTER N'),lastname

FROM customers

TRANSLATE Function  
translate( string1, string\_to\_replace, replacement\_string )

SELECT TRANSLATE(firstname,'TAMMY','BOBBY'),firstname, TRANSLATE(lastname,'CRUZE','GTXWK'),lastname

FROM customers

CONCAT(str, str) Function

* Used to concatenate two character strings

SELECT firstname, lastname, CONCAT(firstname || ' ', lastname)

FROM customers

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| Numeric functions | ROUND, TRUNC, MOD, ABS, POWER |