# bite-sized.sql

# SQL: INSERT SPACE BETWEEN FIRST AND LAST NAME

## From

	names
1	HomerSimpson
2	MaggieSimpson
3	MargeSimpson
4	LisaSimpson
5	BartSimpson
6	BarneyGumble
7	RalphWiggum
8	SeymourSkinner
9	WaylonSmithers
10	MoeSzyslak

### То

	full_name
1	Homer Simpson
2	Maggie Simpson
3	Marge Simpson
4	Lisa Simpson
5	Bart Simpson
6	Barney Gumble
7	Ralph Wiggum
8	Seymour Skinner
9	Waylon Smithers
10	Moe Szyslak

# **SQL Server: PATINDEX**



# SQL Server doesn't support regular expressions. The pattern used in PATINDEX is a pseudo-regex

```
PATINDEX returns the
position the search
string is found
                                  "lower-case letter
  WITH position AS
                                 followed by an
                                  upper-case letter"
  SELECT
       names,
     > PATINDEX(
           '%[a-z][A-Z]%',
           names COLLATE Latin1 General BIN 4
           ) AS pos
                                            Default collation is case-
  FROM #no space
                                            insensitive, so use a case-
                                            sensitive collation instead
  SELECT
       STUFF(names, pos + 1, 0, ' ') AS full name
  FROM position;
                 At position pos + 1 in the text
                 in names, remove 0
                 characters and insert (STUFF)
                 a single space at that position
```

# PostgreSQL: regexp\_matches

regexp\_matches returns an array of the substrings of the 1st parameter that match the regex in the 2nd. The function call is wrapped in parentheses to allow us to use array indexing to extract the result.

# 

Return the first array item (i.e. the substring matched by the expression)

FROM no\_space;

### Regex break-down

^ = at the beginning
(.\*)? = any characters

(?=[A-Z]) = followed by any upper-case letter. The upper-case letter is *not* included in the match. This is known as a positive look-ahead.

### Regex break-down

names,

)[1] as full\_name

[A-Z] = An upper-case letter,

'(?<=[a-z])[A-Z].\*?\$'

.\*?\$ = then all characters to the end of the string,

(?<=[a-z]) = following a lower-case letter. The lower-case letter is not part of the match. This is known as a positive lookbehind.

# MySQL: regexp\_instr

# MySQL doesn't support regex look-aheads or look-behinds

