

How to implement the full text search using only what PSQL offers

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FT search

- * Firebird does not support FT search
- * 3rd party/hand made implementations
- * Tokenizers, dictionaries, ...

FT search

- * 3rd party products
 - * i.e. Lucene/Lucene.NET
 - * Store in FB or outside FB
- * UDFs
- * (P)SQL
 - * Aka „poor mans FT search“

FT search

- * WHERE name LIKE '%term%'
- * Not really FT
- * Cannot use index

FT search

- * Define the needs
 - * Names, products, ...
 - * Full words
 - * Anywhere-ish – from/to word boundaries
- * Tokenize
- * Index
- * Search

FT search

- * Step 1: Split the string on „spaces“
 - * Tokenize
 - * Regex to save us with `[[:ALNUM:]]` and collations
- * Step 2: Process the pieces
 - * LIKE 'term%' is index-searchable (prefix)
 - * `?` we can do LIKE 'mret%' (suffix)
- * Step 3: Build the inverted index
 - * (term, ID)
 - * Functional indices
- * Step 4: Create SPs for searching (optional)

DEMO

Q & A

