# Standard Sql

WITH YourTable AS( SELECT 'goto' AS Content

UNION ALL SELECT 'go to'

UNION ALL SELECT 'soon will come goto - yay'

UNION ALL SELECT 'readme')

SELECT REGEXP\_EXTRACT(Content,r'(.{1,40}goto.{1,40})')

FROM YourTable

WITH YourTable AS( SELECT 'goto' AS Content

UNION ALL SELECT 'malloc'

UNION ALL SELECT 'soon will come realloc - yay'

UNION ALL SELECT 'fight for freedom!')

SELECT REGEXP\_EXTRACT(Content,r'.{1,40}(malloc|realloc|calloc|free).{1,40}')

FROM YourTable

#Legacy sql

# into c\_repos\_constract\_stat

Select

F.repo\_name as repo\_name

, count(distinct path) as files

, count(distinct case when right(lower(path),3) = '.c' then path else null end) as c\_files

, count( distinct case when REGEXP\_MATCH(content,r'(goto)') then path else null end) as files\_goto

, 1.0\*count( distinct case when REGEXP\_MATCH(content,r'(goto)') then path else null end)/count(distinct case when right(lower(path),3) = '.c' then path else null end) as goto\_ratio

, count( distinct case when REGEXP\_MATCH(content,r'(enum)') then path else null end) as files\_enum

, 1.0\*count( distinct case when REGEXP\_MATCH(content,r'(enum)') then path else null end)/count(distinct case when right(lower(path),3) = '.c' then path else null end) as enum\_ratio

, count( distinct case when REGEXP\_MATCH(content,r'(switch)') then path else null end) as files\_switch

, 1.0\*count( distinct case when REGEXP\_MATCH(content,r'(switch)') then path else null end)/count(distinct case when right(lower(path),3) = '.c' then path else null end) as switch\_ratio

, count( distinct case when REGEXP\_MATCH(content,r'(malloc|realloc|calloc|free)') then path else null end) as files\_dynamic\_memory

, 1.0\*count( distinct case when REGEXP\_MATCH(content,r'(malloc|realloc|calloc|free)') then path else null end)/count(distinct case when right(lower(path),3) = '.c' then path else null end) as dynamic\_memory\_ratio

from

[bigquery-public-data:github\_repos.contents] as c

Join

[bigquery-public-data:github\_repos.files] as f

On c.id = f.id

Join

[citric-trees-187317:repo\_attributes.c\_repos] as c\_projects

On

f.repo\_name = c\_projects.repo\_name

Group by

repo\_name