

Filtering data in SQL

Most recent ^{Sorting} → Oldest

order by date DESC

limit

Select _____

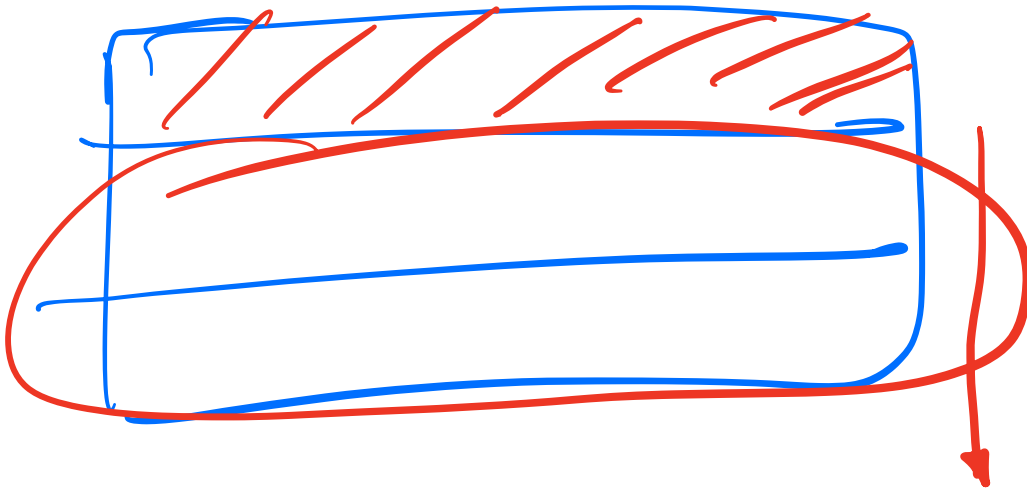
from _____
order by _____
limit (X)

(Q.2) 2nd & 3rd most recent order.

offset 1



skip 1 row from
top



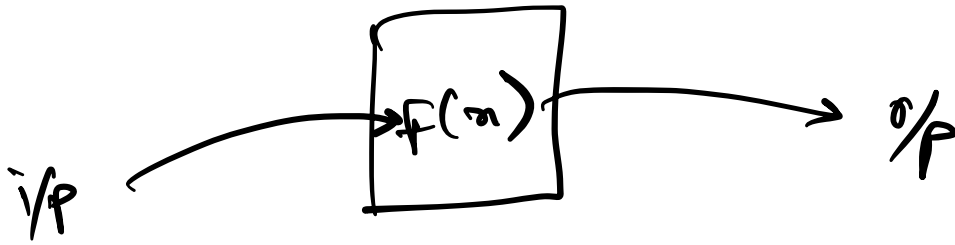
1 apple \rightarrow Rs 50

| qty | per-unit | Amount |
|-------------|----------|------------|
| (10) apples | 50 | <u>500</u> |

(qty x per-unit)

alias (AS)

* Functions in SQL



function_name (param1, param2, ...)

ROUND (453.694, 2)



453.69

Concatenation \longrightarrow Concat ()

Concat ("hi", "everyone")
 \Downarrow

Hi everyone

F.n L-n full-name
"Jane" "Connor" \longrightarrow "Jane Connor"

(Q)

"Jane" "Connor" \longrightarrow "JANE Connor"

"Aditya J"

f-n l-n

"Jane" "Connor" → "Jane C"

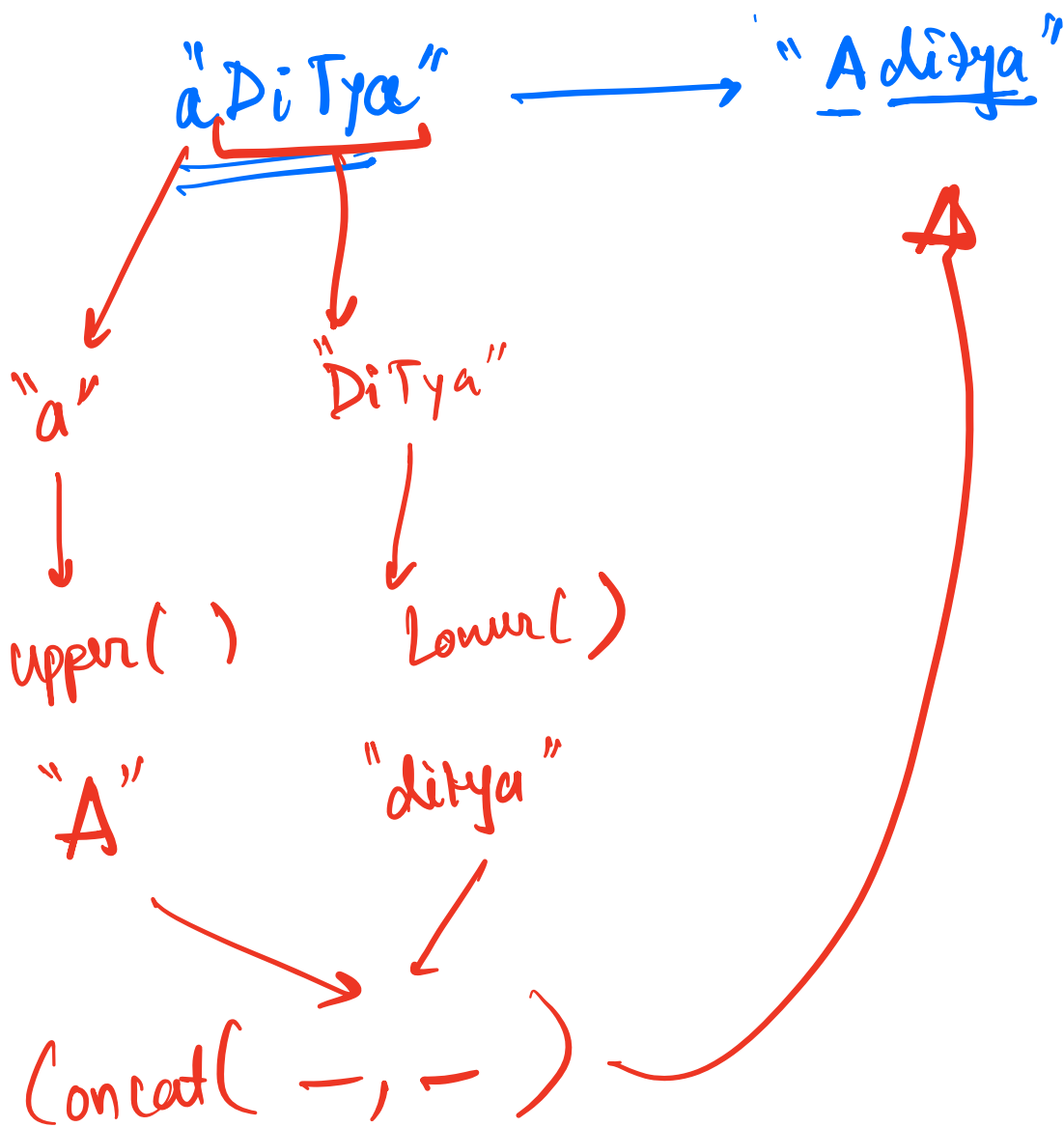
Substring \rightarrow SUBSTR (value, position, length)

Jane
1 2 3 4

→ "J"

$\text{SUBSTR}(\text{"Janu"}, 2, 2)$
 \Downarrow
 "an"

f-n l-n full-name
"john" "doe" → "John Doe"



"Aditya"

"John"
└─→

Substr("Aditya", 2)

Filtering (WHERE)

Select ==

from —

where

order by

limit

equals \rightarrow =

==

~~a == 2~~

not equal \neq , $<>$
==

"Aditya"
1 2 3 4 5 6
-6 -5 -4 -3 -2 -1
←
L

("Jessey", -4, 2)
-1 -3 -2 -1

↓
"es"
==

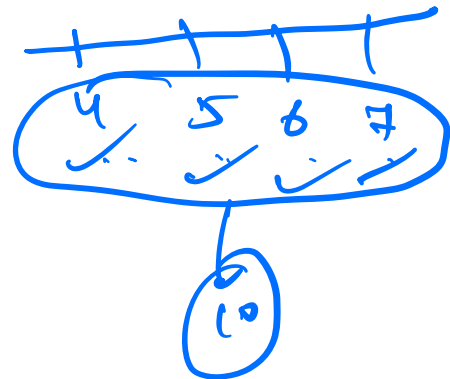
* Multiple Conditions

↳ AND

OR

NOT

pid \rightarrow 3 8
x x



pid \rightarrow 10

(pid \geq 3 AND pid $<$ 8) OR pid = 10

| C1 | C2 | AND |
|----|----|-----|
| T | T | T |
| T | F | F |
| F | T | F |
| F | F | F |

* pid Between 4 AND 7

Select

*

from vba

where (v-id = 7)

AND

(market-date >= "2019-04-03")

AND

market-date <= "2019-05-18")



where (v-id = 7) AND

(market-date BETWEEN

a AND b)

↙
inclusive of range

IN \Rightarrow whenever you're given
a list of values to
filter for

l_name IN (✓, ✓, ✓)
 —, —, —
                  ~~~~~  
                  ↙