O melhor do SQL Ilustrado





COMANDOS + UTEIS!

Abaixo disponibilizo uma sheet cheat dos meus comandos favoritos, esse é um resumão para saber como eles operam verifique as outras paginas...

NÃO VIVO SEM

> Select, Alias, Filter, Order by e os operadores (like, in e between)

LÓGICA E JUNÇÃO DE TABELAS

* Case e os famosos JOINS,

FUNÇÕES

- > "String"
- * lower, trim, length, locate (instr), replace, substring
- > "Number"
- * abs, round
- > "Date"
- * Extract, date_format current_date
- > "Gerais"
- * NVL(Substituir null), convert/cast

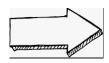


NÃO VIVO SEM!

Select *

From tbl_a;

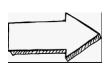
	Key	Α	В
Γ	1	A1	10
١	2	A2	20
١	3	А3	30
١	4	A4	40
L	5	A5	50



L	Key	Α	В
Γ	1	A1	10
ı	2	A2	20
ı	3	А3	30
ı	4	A4	40
	5	A5	50

Select A, B as price From tbl_a;

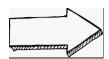
Key	Α	В
1	A1	10
2	A2	20
3	А3	30
4	A4	40
5	A5	50



Key	Α	PRICE
1	A1	10
2	A2	20
3	А3	30
4	A4	40
5	A5	50

Select A, B
From tbl_a
Where b >= 40;

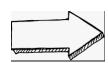
Key	Α	В
1	A1	10
2	A2	20
3	А3	30
4	Α4	40
5	A5	50



Key	Α	В
4	Α4	40
5	A5	50

Select A, B
From tbl_a
Order by b desc;

Key	Α	В
1	A1	10
2	A2	20
3	А3	30
4	A4	40
5	A5	50



Key	Α	В
5	A5	50
4	A4	40
3	A3	30
2	A2	20
1	A1	10



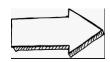
NÃO VIVO SEM!

Select *

From tbl_a

Where B in (10,50);

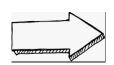
Key	Α	В
1	A1	10
2	A2	20
3	А3	30
4	A4	40
5	A5	50



Key	Α	В
1	A1	10
5	A5	50

Select *
From tbl_a Where
between 19 and 31;

Key	Α	В
1	A1	10
2	A2	20
3	А3	30
4	A4	40
5	A5	50



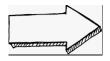
Key	Α	В
2	A2	20
3	А3	30

Select *

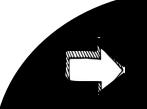
From tbl_a

Where A like '%A1%';

Key	Α	В
1	A1	10
2	A2	20
3	A3	30
4	A4	40
5	A5	50



Key	Α	В
1	A1	10



Group By

Select A, sum(B) as B From tbl_a Group by a; Operações comuns Sum, avg....

Seleciona

Key	Α	В
1	A1	10
2	A2	20
3	А3	30
4	A4	40
5	A5	50
6	A2	10
7	А3	20
8	A4	30
9	A6	40
10	A1	50

Agrupar por A

Key	Α	В
1	A1	10
10	A1	50

Key	Α	В
2	A2	20
6	A2	10

Key	Α	В
3	А3	30
7	A3	20

Key	Α	В
4	Α4	40
8	Α4	30

Key	Α	В
5	A5	50

Key	Α	В
9	A6	40

Aplica operação (sum)

Α	В
A1	60
A2	30
А3	50
A4	70
A5	50
A6	40



Estrutura de Decisão

Select Key,B,

Case

When check >30 then 'velho'

When check <= 30 then 'novo'

End check

From tbl_b;

Key	В
1	10
2	20
3	30
6	60
7	70



Key	В	Check
1	10	novo
2	20	novo
3	30	novo
6	40	velho
7	50	velho



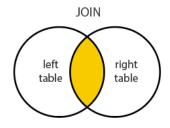
JOIN - 1

Select *
From tbl_a
Inner join tbl_b
On a.key = b.key;

Α	Key		Key	В
A1	1 -	*	_ 1	10
A2	2 —	4	_ 2	20
A3	3 -	4	- 3	30
A4	4		6	60
A5	5		7	70

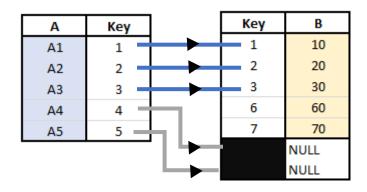


Key	Α	В
1	A1	10
2	A2	20
3	А3	30



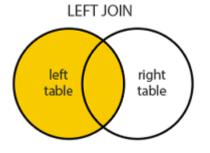
Select *
From tbl_a

Left join tbl_b
On a.key = b.key;





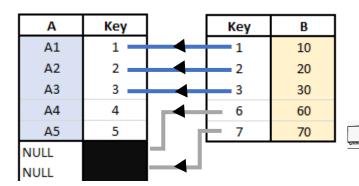
Key	Α	В
1	A1	10
2	A2	20
3	А3	30
4	A4	null
5	A5	null



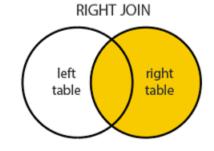


JOIN - 2

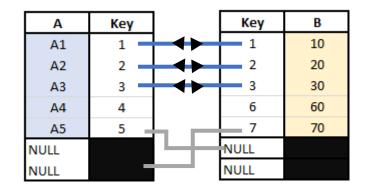
Select *
From tbl_a
Right join tbl_b
On a.key = b.key;



Key	Α	В
1	A1	10
2	A2	20
3	А3	30
6	null	60
7	null	70

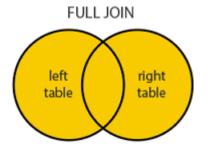


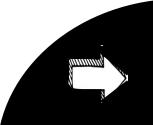
Select *
From tbl_a
Full outer tbl_b
On a.key = b.key;





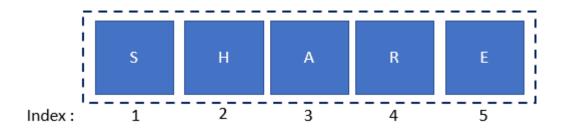
Key	Α	В
1	A1	10
2	A2	20
3	А3	30
4	A4	Null
5	A5	Null
6	Null	60
7	Null	70





FUNÇÕES: String

O que são strings afinal? De maneira resumida é um vetor. Mas pode imaginar uma caixa com muitas uma divisória e rotulo(index) para cada letra!



Select lower(a) as a From tbl_a;

* Tudo minúsculo!

Key	Α
1	sOmE_TEXT1
2	another_text2
3	another_text3
4	another_text4
5	another_text5



Key	Α
1	some_text1
2	another_text2
3	another_text3
4	another_text4
5	another_text5

Select length(a) as a From tbl_a;

Key	Α
1	sOmE_TEXT1
2	another_text2
3	another_text3
4	another_text4
5	another_text5



Key	Α
1	10
2	13
3	13
4	13
5	13



• Verifica o tamanho da string!

FUNÇÕES: String

Select instr(A, 's') as A From tbl_a;

Key	Α
1	some_text1
2	another_text2
3	another_text3
4	another_text4
5	another_text5



	Key	Α
»	1	1
	2	0
	3	0
	4	0
	5	0

* Encontra a primeira ocorrência de uma letra é case sensitive! #Retorna 0 caso não encontre

Select substr(A, 1, 2) as A From tbl_a;

* Seleciona um range de index

Key	Α
1	some_text1
2	another_text2
3	another_text3
4	another_text4
5	another_text5



Key	Α
1	so
2	an
3	an
4	an
5	an

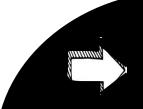
Select replace(A, '_', '9') as A From tbl_a;

Key	Α	
1	some_text1	
2	another_text2	
3	another_text3	
4	another_text4	
5	another_text5	



Key	Α	
1	some9text1	
2	another9text2	
3	another9text3	
4	another9text4	
5	another9text5	

* Modifica uma letra especifica



FUNÇÕES: Number

Select key, abs (b) as b From tbl_b;

В	
1.57721	
1.61803	
3.14159	
60.6	
-70.0001	



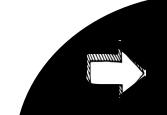
	Key	В
	1	1.57721
\geq	2	1.61803
	3	3.14159
	6	60.6
	7	70.0001

Select key, round(b,0) as b From tbl_b;

Key	В	
1	1.57721	
2	1.61803	
3	3.14159	
6	60.6	
7	-70.0001	



Key	В
1	1
2	1
3	3
6	60
7	-70

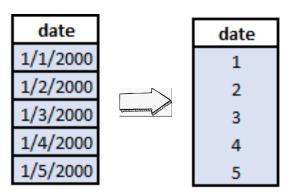


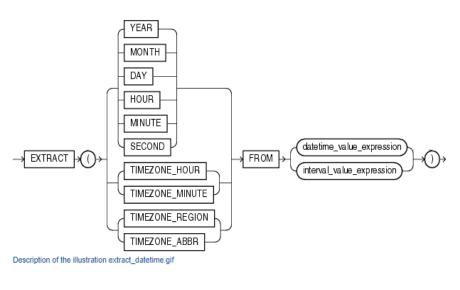
^{*} Torna os valores absolutos

^{*} Arredondar casa decimal

FUNÇÕES: Date

Select extract(month from date)
From tbl_c





Select TO_CHAR(Date, 'YYYY')
From tbl_c;

date		date
1/1/2000		2000
1/2/2000		2000
1/3/2000		2000
1/4/2000		2000
1/5/2000		2000

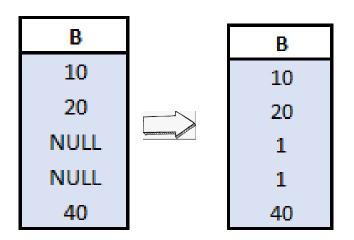


*Obs: Euseiñéfunçãotipodate!

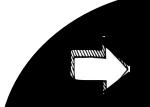
FUNÇÕES: Outras

Select NVL(B, 1)
From tbl_b;

Nvl(col, value_to_replace)



Funções de conversão de tipos são uteis como TO_DATE, TO_CHAR, TO_INT e o famigerado cast...



Bonus: Subqueries (with)

```
With view_a as (
Select *
from table_a),
View_b as(
Select *
From view_a
Where b \ge 40)
Select *
from view b;
```



Nota

As funções e statements utilizados foram baseados na engine oracle entretanto as ideias gerais são validas a qualquer engine SQL.

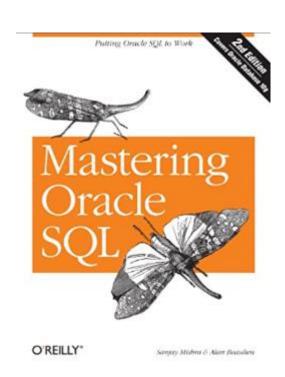
Me desculpe a preguiça de fazer exemplos para outras engines.

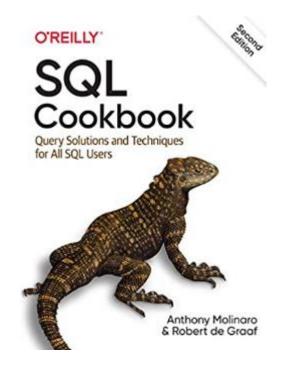
Pensei em abordar funções Windows function e cursores mas acredito que isso vale dois post separado para isso.

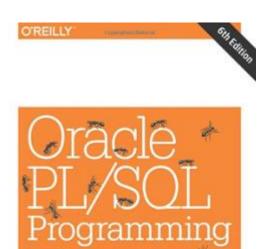
Caso possa me ajudar compartilhe esse conteúdo ©



Book Tips

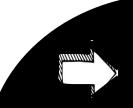






OVERS VERSIONS THROUGH GRACLE DATABASE TO: 🊿

Steven Feuerstein with Bill Pribyl Convention Material





WRITTEN AND DIRECTED BY RAFAEL TARGINO