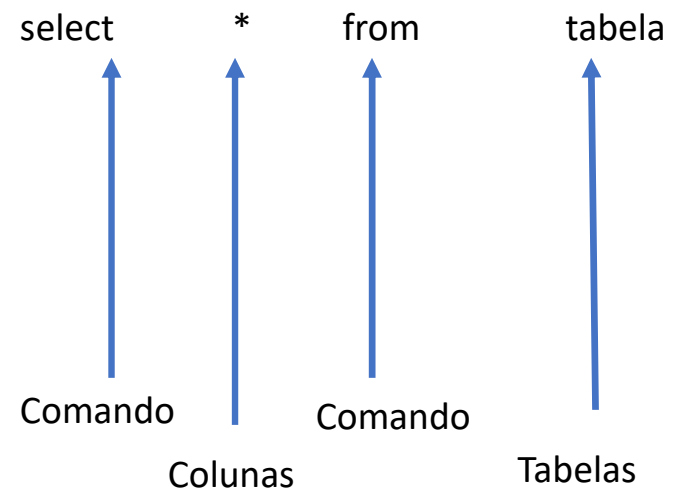


Introdução a Bancos de Dados e Linguagem SQL

Básico



SELECCIONANDO COLUMNAS

select clientes, sexo, status from
clientes

	cliente character varying (50)	sexo character (1)	status character varying (50)
1	Adelina Buenaventura	M	Silver
2	Adelino Gago	M	Silver
3	Adélio Lisboa	M	Silver
4	Adérito Bahía	M	Silver
5	Adolfo Patrício	M	Silver
6	Adriana Guedelha	F	Platinum
7	Aida Dorneles	F	Silver
8	Alarico Quinterno	M	Silver
9	Alberto Cezimbra	M	Silver
10	Alberto Monsanto	M	Gold
11	Albino Canela	M	Silver
12	Alceste Varanda	F	Silver
13	Alcides Carvalhais	M	Silver

DEFININDO FILTRO

select cliente, sexo, status from
clientes where status = 'Silver'

cliente character varying (50)	sexo character (1)	status character varying (50)
Adelina Buenaventura	M	Silver
Adelino Gago	M	Silver
Adélio Lisboa	M	Silver
Adérito Bahía	M	Silver
Adolfo Patrício	M	Silver
Aida Dorneles	F	Silver
Alarico Quinterno	M	Silver
Alberto Cezimbra	M	Silver
Albino Canela	M	Silver
Alceste Varanda	F	Silver
Alcides Carvalhais	M	Silver
Aldo Martins	M	Silver
Alexandra Tabares	F	Silver

OR

select cliente, sexo, status from
clientes where status = 'Silver' OR
status = 'Platinum'

cliente character varying (50)	sexo character (1)	status character varying (50)
Adelina Buenaventura	M	Silver
Adelino Gago	M	Silver
Adélio Lisboa	M	Silver
Adérito Bahía	M	Silver
Adolfo Patrício	M	Silver
Adriana Guedelha	F	Platinum
Aida Dorneles	F	Silver
Alarico Quinterno	M	Silver
Alberto Cezimbra	M	Silver
Albino Canela	M	Silver
Alceste Varanda	F	Silver
Alcides Carvalhais	M	Silver
Aldo Martins	M	Silver

IN

select cliente, sexo, status from
clientes where status IN
('Silver','Platinum')

cliente character varying (50)	sexo character (1)	status character varying (50)
Adelina Buenaventura	M	Silver
Adelino Gago	M	Silver
Adélio Lisboa	M	Silver
Adérito Bahía	M	Silver
Adolfo Patrício	M	Silver
Adriana Guedelha	F	Platinum
Aida Dorneles	F	Silver
Alarico Quinterno	M	Silver
Alberto Cezimbra	M	Silver
Albino Canela	M	Silver
Alceste Varanda	F	Silver
Alcides Carvalhais	M	Silver
Aldo Martins	M	Silver

LIKE

select cliente, sexo, status from clientes where cliente like '%Alb%'

_ equivale a 1 caractere

cliente character varying (50)	sexo character (1)	status character varying (50)
Alberto Cezimbra	M	Silver
Alberto Monsanto	M	Gold
Albino Canela	M	Silver
Jandaíra Albuquerque	F	Silver

OPERADORES DE COMPARAÇÃO

```
select * from vendas where total > 6000
```

idvenda [PK] integer	idvendedor integer	idcliente integer	data date	total numeric (10,2)
1	1	1	01-01...	8053.60
3	7	31	02-01...	6087.00
4	5	1	02-01...	13828.60
5	8	120	03-01...	26096.66
6	9	74	04-01...	18402.00
7	9	191	06-01...	7524.20
8	6	2	06-01...	12036.60
10	2	202	06-01...	8852.00
11	1	3	08-01...	16545.25
12	7	32	09-01...	11411.88
13	4	136	10-01...	15829.70
14	3	249	12-01...	6154.36

Ordenando

select cliente from clientes
order by cliente

select cliente from clientes
order by cliente DESC

select cliente, status from clientes
order by cliente desc, status

Adelina Buenaventura

Adelino Gago

Adélio Lisboa

Adérito Bahía

Adolfo Patrício

Adriana Guedelha

Aida Dorneles

Alarico Quinterno

Alberto Cezimbra

Alberto Monsanto

Albino Canela

BETWEEN

select * from vendas where total between 6000 and 8000

idvenda [PK] integer	idvendedor integer	idcliente integer	data date	total numeric (10,2)
3	7	31	02-01...	6087.00
7	9	191	06-01...	7524.20
14	3	249	12-01...	6154.36
22	2	74	17-01...	7652.04
30	4	218	23-01...	7128.70
37	7	192	27-01...	6510.16
44	2	185	02-02...	7524.20
46	8	58	03-02...	7296.08
54	1	185	11-02...	7753.70
60	4	136	14-02...	7901.00
63	10	191	20-02...	7820.85
67	4	191	22-02...	6678.50

TOP

```
select * from VENDAS limit 10
```

idvenda [PK] integer	idvendedor integer	idcliente integer	data date	total numeric (10,2)
1	1	1	01-01...	8053.60
2	6	185	01-01...	150.40
3	7	31	02-01...	6087.00
4	5	1	02-01...	13828.60
5	8	120	03-01...	26096.66
6	9	74	04-01...	18402.00
7	9	191	06-01...	7524.20
8	6	2	06-01...	12036.60
9	7	91	06-01...	2804.75
10	2	202	06-01...	8852.00

DISTINCT

select distinct status from clientes

status	
character varying (50)	
Silver	
Gold	
Platinum	

AGREGAÇÃO

`select count(*) from vendas`

`MIN(), MAX(), AVG(), SUM()`

count bigint	
400	

AGREGAÇÃO COM WHERE

```
select count(*) from vendas where total >  
6000
```

count bigint
214

AGRUPANDO

```
select idvendedor, count(idvendedor)
from vendas group by idvendedor
```

idvendedor integer	count bigint
8	30
10	46
9	43
7	38
1	38
5	39
4	37
2	50
6	35
3	44

having

```
select idvendedor, count(idvendedor)
from vendas group by idvendedor
having count(idvendedor) > 40
```

idvendedor integer	count bigint
10	46
9	43
2	50
3	44