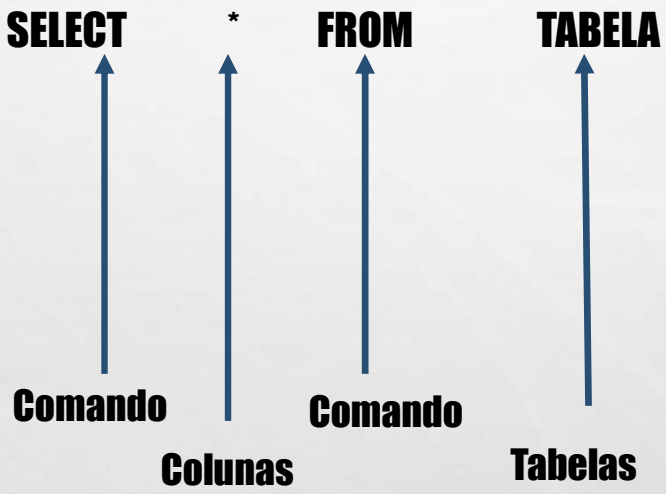
FORMAÇÃO CIENTISTA DE DADOS

SQL

BÁSICO



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	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

SELECIONANDO COLUNAS

```
SELECT CLIENTES, SEXO,
STATUS FROM CLIENTES
```

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

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
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

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')
```

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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

LIKE

SELECT CLIENTE, SEXO, STATUS FROM CLIENTES WHERE CLIENTE LIKE '%ALB%'

_ EQUIVALE A 1 CARACTERE

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
17	2	79	13-01...	15829.70

OPERADORES DE COMPARAÇÃO

```
SELECT * FROM VENDAS
WHERE TOTAL > 6000
```

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cliente character varying (50)
Adelina Buenaventura
Adelino Gago
Adélio Lisboa
Adérito Bahía
Adolfo Patrício
Adriana Guedelha
Aida Dorneles
Alarico Quinterno
Alberto Cezimbra
Alberto Monsanto
Albino Canela
Alceste Varanda
Alcides Carvalhais

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
```

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
73	3	89	27-02...	7038.77

BETWEEN

```
SELECT * FROM VENDAS
WHERE TOTAL BETWEEN 6000
AND 8000
```

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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

TOP

SELECT * FROM VENDAS LIMIT 10

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status character varying (50)
Silver
Gold
Platinum

DISTINCT

```
SELECT DISTINCT STATUS FROM CLIENTES
```

count bigint
400

AGREGAÇÃO

SELECT COUNT(*) FROM VENDAS

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

count bigint
214

AGREGAÇÃO COM WHERE

SELECT COUNT(*) FROM VENDAS WHERE TOTAL > 6000

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

AGRUPANDO

```
SELECT IDVENDEDOR, COUNT(IDVENDEDOR)
FROM VENDAS GROUP BY IDVENDEDOR
```

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

HAVING

```
SELECT IDVENDEDOR, COUNT(IDVENDEDOR)
FROM VENDAS GROUP BY IDVENDEDOR

HAVING COUNT(IDVENDEDOR) > 40
```