

SQL

- ♦ DQL Linguagem de Consulta de Dados
- ♦ (SELECT)
- ♦ DML Linguagem de Manipulação de Dados
- ♦ (INSERT, UPDATE, DELETE)
- DDL Linguagem de Definição de Dados
- ♦ (CREATE TABLE, INDEX, VIEW)
- ♦ (ALTER TABLE, INDEX, VIEW)
- **DCL Linguagem de Controle de Dados**
- ♦ GRANT, REVOKE
- ♦ DTL Linguagem de Transação de Dados
- ♦ (BEGIN TRANSACTION, COMMIT, ROLLBACK)



DQL

♦ SELECT DISTINCT FROM WHERE GROUP BY ORDER BY

- OPERADORES
 - ♦ AND, OR, NOT
 - **⋄** < , >, <=, >=, <>
 - ♦ BETWEEN, LIKE, IN
- AGREGAÇÃO
 - OUNT, SUM, AVG, MAX, MIN



idcliente	cliente	estado	sexo	status
1	Adelina Buenaventura	RJ	M	Silver
2	Adelino Gago	RJ	M	Silver
3	Adélio Lisboa	SE	M	Silver
4	Adérito Bahía	MA	M	Silver
5	Adolfo Patrício	PE	M	Silver
6	Adriana Guedelha	l RO	F	Platinu
7	Aida Dorneles	RN	F	Silver
8	Alarico Quinterno	AC	M	Silver
9	Alberto Cezimbra	AM	M	Silver
10	Alberto Monsanto	RN	M	Gold
11	Albino Canela	AC	M	Silver
12	Alceste Varanda	RR	F	Silver
13	Alcides Carvalhais	RO	M	Silver
14	Aldo Martins	G0	M	Silver
15	Alexandra Tabares	MG	F	Silver
16	Alfredo Cotrim	j sc	M	Silver
17	Almeno Figueira	j sc	M	Silver
18	Alvito Peralta	j AM	M	Silver
19	Amadeu Martinho	RN	M	Silver
20	Amélia Estévez	į PE	F	Silver
21	Ana Homem	į RN	F	Silver
22	Ana Peseiro	PA	F	Silver
23	Anacleto Garrau	j T0	M	Silver
24	Anacleto Guterres	PI	M	Silver

ed=# select clientes, sexo, status from relacional.clientes ed-# where status = 'Silver'; clientes | sexo | status (1, "Adelina Buenaventura", RJ, M, Silver) | Silver (2, "Adelino Gago", RJ, M, Silver) Silver (3, "Adélio Lisboa", SE, M, Silver) Silver (4, "Adérito Bahía", MA, M, Silver) Silver (5, "Adolfo Patrício", PE, M, Silver) | Silver (7, "Aida Dorneles", RN, F, Silver) F Silver (8, "Alarico Quinterno", AC, M, Silver) M Silver (9, "Alberto Cezimbra", AM, M, Silver) M Silver (11, "Albino Canela", AC, M, Silver) М Silver (12, "Alceste Varanda", RR, F, Silver) | Silver (13, "Alcides Carvalhais", RO, M, Silver) М Silver (14, "Aldo Martins", GO, M, Silver) M Silver (15, "Alexandra Tabares", MG, F, Silver) F Silver (16, "Alfredo Cotrim", SC, M, Silver) M Silver (17, "Almeno Figueira", SC, M, Silver) М Silver (18, "Alvito Peralta", AM, M, Silver) M Silver (19, "Amadeu Martinho", RN, M, Silver) Silver M (20, "Amélia Estévez", PE, F, Silver) F Silver (21, "Ana Homem", RN, F, Silver) Silver (22, "Ana Peseiro", PA, F, Silver) F Silver

ed=# select clientes, sexo, status from relacio		8
ed-# where status = 'Silver' OR status = 'Plati	0.00	2 88 88
clientes	sexo	status
(1,"Adelina Buenaventura",RJ,M,Silver)	M	Silver
(2,"Adelino Gago",RJ,M,Silver)	M	Silver
(3,"Adélio Lisboa",SE,M,Silver)	j M	Silver
(4,"Adérito Bahía",MA,M,Silver)	j M	Silver
(5,"Adolfo Patrício",PE,M,Silver)	j M	Silver
(6, "Adriana Guedelha", RO, F, Platinum)	j F	Platinum
(7, "Aida Dorneles", RN, F, Silver)	İF	Silver
(8, "Alarico Quinterno", AC, M, Silver)	j M	Silver
(9, "Alberto Cezimbra", AM, M, Silver)	į M	Silver
(11,"Albino Canela",AC,M,Silver)	M	Silver
(12, "Alceste Varanda", RR, F, Silver)	į F	Silver
(13, "Alcides Carvalhais", RO, M, Silver)	į M	Silver
(14, "Aldo Martins", GO, M, Silver)	j M	Silver
(15, "Alexandra Tabares", MG, F, Silver)	İF	Silver
(16, "Alfredo Cotrim", SC, M, Silver)	į M	Silver
(17, "Almeno Figueira", SC, M, Silver)	į M	Silver
(18, "Alvito Peralta", AM, M, Silver)	M	Silver
(19, "Amadeu Martinho", RN, M, Silver)	M	Silver
(20, "Amélia Estévez", PE, F, Silver)	į F	Silver
(21, "Ana Homem", RN, F, Silver)	į F	Silver





ed=# select clientes, sexo, status from relacional.clientes ed-# where status IN('Silver','Platinum'); | sexo | status (1, "Adelina Buenaventura", RJ, M, Silver) Silver (2, "Adelino Gago", RJ, M, Silver) Silver Silver (3, "Adélio Lisboa", SE, M, Silver) М (4, "Adérito Bahía", MA, M, Silver) Silver (5, "Adolfo Patrício", PE, M, Silver) Silver (6, "Adriana Guedelha", RO, F, Platinum) Platinum (7, "Aida Dorneles", RN, F, Silver) Silver (8, "Alarico Quinterno", AC, M, Silver) Silver (9, "Alberto Cezimbra", AM, M, Silver) Silver (11, "Albino Canela", AC, M, Silver) Silver (12, "Alceste Varanda", RR, F, Silver) Silver (13, "Alcides Carvalhais", RO, M, Silver) Silver (14, "Aldo Martins", GO, M, Silver) Silver (15, "Alexandra Tabares", MG, F, Silver) Silver (16, "Alfredo Cotrim", SC, M, Silver) Silver (17, "Almeno Figueira", SC, M, Silver) Silver (18, "Alvito Peralta", AM, M, Silver) Silver (19, "Amadeu Martinho", RN, M, Silver) Silver (20, "Amélia Estévez", PE, F, Silver) Silver (21, "Ana Homem", RN, F, Silver) Silver (22, "Ana Peseiro", PA, F, Silver) Silver (23, "Anacleto Garrau", TO, M, Silver) Silver (24, "Anacleto Guterres", PI, M, Silver) Silver (25, "Andreia Carvalhal", SP, F, Silver) Silver

ed=# select clientes, sexo, status from relacional.clientes ed-# where status NOT IN('Silver','Platinum'); clientes sexo | status (10, "Alberto Monsanto", RN, M, Gold) Gold (29, "Anna Carvajal", RS, F, Gold) Gold (50, "Bento Quintão", SP, M, Gold) Gold (71, "Carminda Dias", AM, F, Gold) Gold (88, "Cláudio Jorge", TO, M, Gold) Gold (123, "Dionísio Saltão", PR, M, Gold) Gold (166, "Firmino Meireles", AM, M, Gold) Gold (222, "Honorina Villaverde", PE, F, Gold) Gold (237, "Iracema Rodríguez", BA, F, Gold) Gold (9 rows)



ed=# select clientes, sexo, status from relacional.clientes
ed-# where cliente like '%Alb%';

clientes		sexo	ļ	status
<pre>(9,"Alberto Cezimbra",AM,M,Silver) (10,"Alberto Monsanto",RN,M,Gold) (11,"Albino Canela",AC,M,Silver) (246,"Jandaíra Albuquerque",SP,F,Silver) (4 rows)</pre>	į	M M M F	i	Silver Gold Silver Silver

ed=# select * from relacional.vendas where total > 6000:						
idvenda	· ,	idcliente	data	total		
1	1	1	01-01-2016	8053.60		
3	7	31	02-01-2016	6087.00		
4 j	5	1	02-01-2016	13828.60		
5 j	8	120	03-01-2016	26096.66		
6	9	74	04-01-2016	18402.00		
7 j	9	191	06-01-2016	7524.20		
8	6	2	06-01-2016	12036.60		
10	2	202	06-01-2016	8852.00		
11	1	3	08-01-2016	16545.25		
12	7	32	09-01-2016	11411.88		
13	4	136	10-01-2016	15829.70		
14	3	249	12-01-2016	6154.36		
17	2	79	13-01-2016	15829.70		
18	10	136	14-01-2016	16996.36		
22	2	74	17-01-2016	7652.04		
25	2	58	19-01-2016	11290.19		
26	2	74	21-01-2016	8979.84		
30	4	218	23-01-2016	7128.70		

-				
ed=# selec	t * from rela	cional.vend	as	
ed-# where	total betwee	n 6000 and	8000;	00 NE NE NA
idvenda	idvendedor	idcliente	data	total
+	+		+	+
3	7	31	02-01-2016	6087.00
7	9	191	06-01-2016	7524.20
14	3	249	12-01-2016	6154.36
22	2	74	17-01-2016	7652.04
30 j	4 j	218	23-01-2016	7128.70
37	7	192	27-01-2016	6510.16
44	2	185	02-02-2016	7524.20
46	8	58	03-02-2016	7296.08
54	1	185	11-02-2016	7753.70
60	4 j	136	14-02-2016	7901.00
63	10 j	191	20-02-2016	7820.85
67	4	191	22-02-2016	6678.50
73	3 j	89	27-02-2016	7038.77
80	6 j	54	04-03-2016	7233.50
83	8 j	54	09-03-2016	7196.40
90 j	4 j	115	15-03-2016	7205.75
93	9 j	186	17-03-2016	7038.77





```
ed=# select count(*) from relacional.vendas;
count

400 -> (ala)
```

```
ed=# select count(*) from relacional.vendas
where total > 6000;
count
-----
214
(1 row)
```



ed=# select idvendedor, count(idvendedor) from relacional.vendas ed-# group by idvendedor; idvendedor | count -D Quellos Varos Ver se 201 -----8 I 10 9 j 38 38 1 | 39 5 İ 2 j 6 j 35 3 | (10 rows)

