

## **LAPORAN AKHIR PRAKTIKUM**

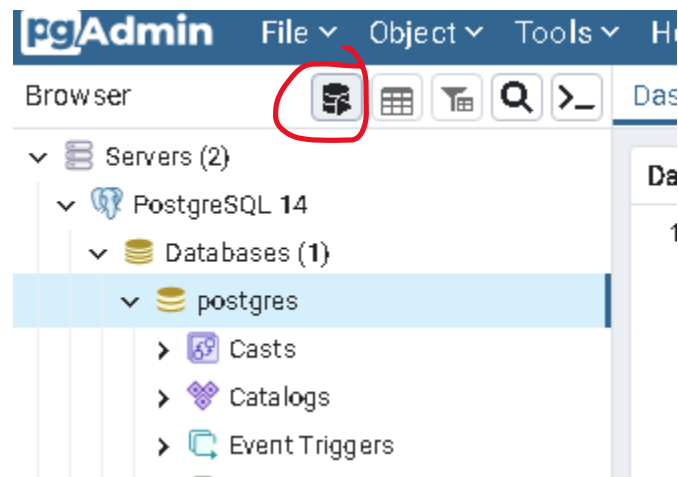
Mata Praktikum : Sistem Basis Data 1  
Kelas : 3IA02  
Praktikum ke- : 5  
Tanggal : 16/11/22  
Materi : Equi Join  
NPM : 50420562  
Nama : Ibrahim Bramullah  
Ketua Asisten : Natasya Rahma Fadilla  
Paraf Asisten :  
Nama Asisten :  
Jumlah Lembar : 7 Lembar

**LABORATORIUM TEKNIK INFORMATIKA**

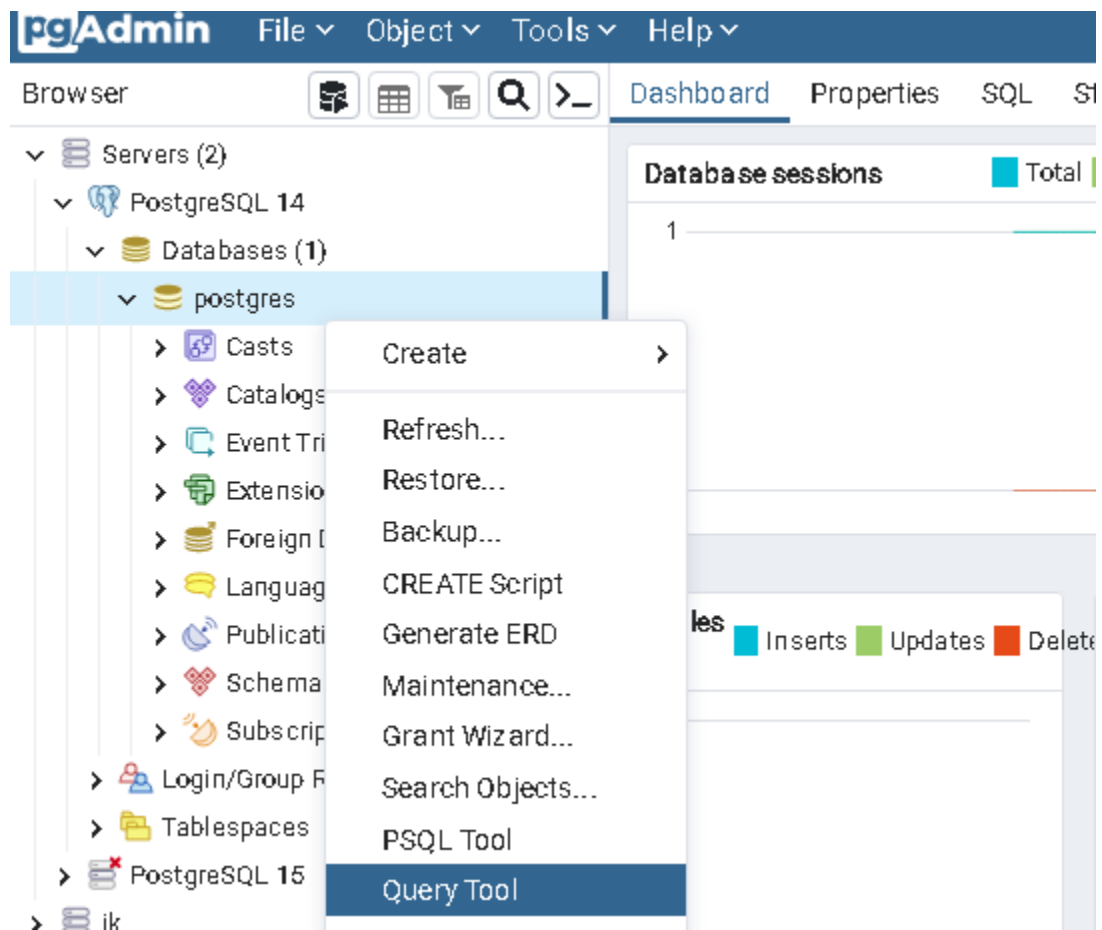
**UNIVERSITAS GUNADARMA**

**2022**

Buka Query Tool

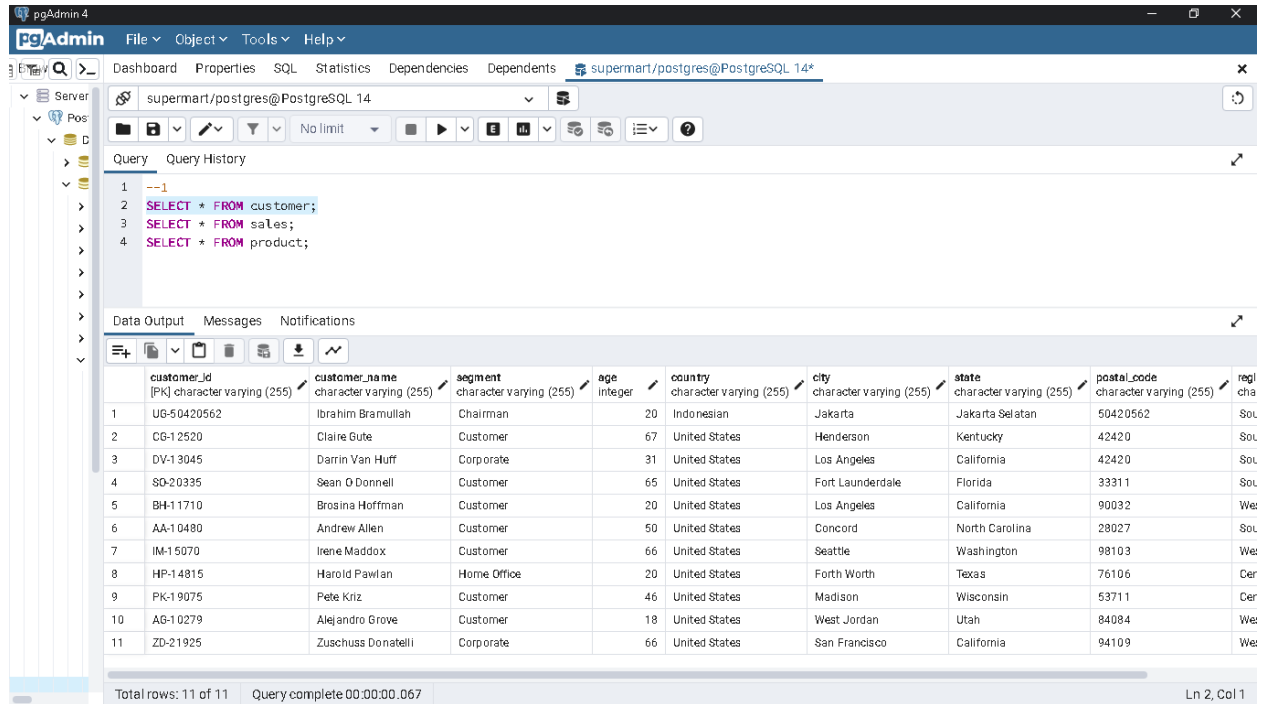


Atau dengan



## 1. Tampilkan table customer,sales, dan product yang telah dibuat pada database supermart

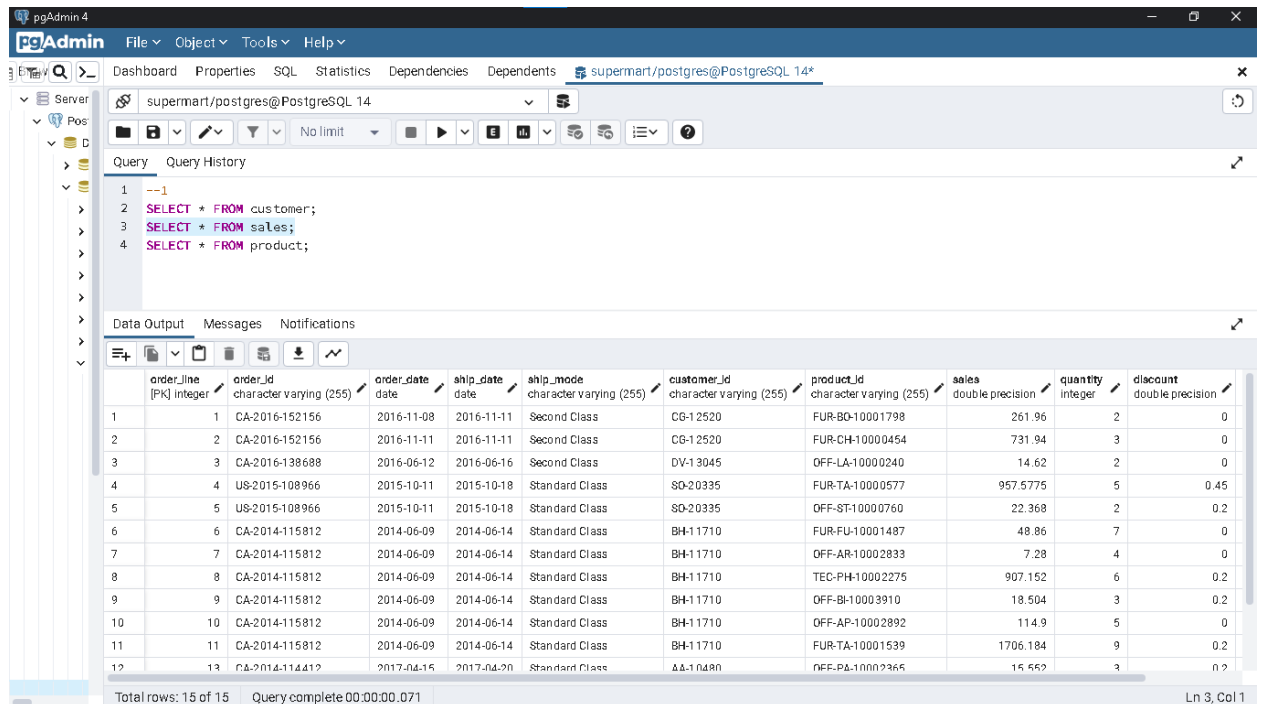
### Customer:



The screenshot shows the pgAdmin 4 interface with a SQL query executed. The query is: `--1  
2 SELECT * FROM customer;  
3 SELECT * FROM sales;  
4 SELECT * FROM product;` The results are displayed in a table with 11 rows and 10 columns. The status bar indicates 'Total rows: 11 of 11' and 'Query complete 00:00:00.067'.

	customer_id [PK] character varying (255)	customer_name character varying (255)	segment character varying (255)	age integer	country character varying (255)	city character varying (255)	state character varying (255)	postal_code character varying (255)	regi cha
1	UG-50420562	Ibrahim Bramullah	Chairman	20	Indonesian	Jakarta	Jakarta Selatan	50420562	Sou
2	CG-12520	Claire Gule	Customer	67	United States	Henderson	Kentucky	42420	Sou
3	DV-13045	Darrin Van Huff	Corporate	31	United States	Los Angeles	California	42420	Sou
4	SO-20335	Sean O'Donnell	Customer	65	United States	Fort Lauderdale	Florida	33311	Sou
5	BH-11710	Brosina Hoffman	Customer	20	United States	Los Angeles	California	90032	We
6	AA-10480	Andrew Allen	Customer	50	United States	Concord	North Carolina	28027	Sou
7	IM-15070	Irene Maddox	Customer	66	United States	Seattle	Washington	98103	We
8	HP-14815	Harold Pawlan	Home Office	20	United States	Forth Worth	Texas	76106	Cer
9	PK-19075	Pete Kriz	Customer	46	United States	Madison	Wisconsin	53711	Cer
10	AG-10279	Alejandro Grove	Customer	18	United States	West Jordan	Utah	84084	We
11	ZD-21925	Zuschuss Donatelli	Corporate	66	United States	San Francisco	California	94109	We

### Sales:



The screenshot shows the pgAdmin 4 interface with a SQL query executed. The query is: `--1  
2 SELECT * FROM customer;  
3 SELECT * FROM sales;  
4 SELECT * FROM product;` The results are displayed in a table with 15 rows and 11 columns. The status bar indicates 'Total rows: 15 of 15' and 'Query complete 00:00:00.071'.

	order_line [PK] integer	order_id character varying (255)	order_date date	ship_date date	ship_mode character varying (255)	customer_id character varying (255)	product_id character varying (255)	sales double precision	quantity integer	discount double precision
1	1	CA-2016-152156	2016-11-08	2016-11-11	Second Class	CG-12520	FUR-BQ-10001798	261.96	2	0
2	2	CA-2016-152156	2016-11-11	2016-11-11	Second Class	CG-12520	FUR-CH-10000454	731.94	3	0
3	3	CA-2016-138688	2016-06-12	2016-06-16	Second Class	DV-13045	OFF-LA-10000240	14.62	2	0
4	4	US-2015-108966	2015-10-11	2015-10-18	Standard Class	SO-20335	FUR-TA-10000577	957.5775	5	0.45
5	5	US-2015-108966	2015-10-11	2015-10-18	Standard Class	SO-20335	OFF-ST-10000760	22.368	2	0.2
6	6	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	FUR-FU-10001487	48.86	7	0
7	7	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-AR-10002833	7.28	4	0
8	8	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	TEC-PH-10002275	907.152	6	0.2
9	9	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-BI-10003910	18.504	3	0.2
10	10	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-AP-10002899	114.9	5	0
11	11	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	FUR-TA-10001539	1706.184	9	0.2
12	12	CA-2014-114412	2017-04-15	2017-04-20	Standard Class	AA-10480	OFF-PA-10002365	15.562	3	0.2

### Product:

pgAdmin 4

File Object Tools Help

supermart/postgres@PostgreSQL 14\*

Query

```

1 --1
2 SELECT * FROM customer;
3 SELECT * FROM sales;
4 SELECT * FROM product;

```

Data Output

	product_id [FK] character varying (255)	category character varying (255)	sub_category character varying (255)	product_name character varying (255)
1	FUR-CH-10000454	Furniture	Chairs	Hon Deluxe Fabric Uph...
2	OFF-LA-10000240	Office Supplies	Labels	Self-Adhesive Address ...
3	FUR-TA-10000577	Furniture	Tables	Bretford CR4500 Series...
4	OFF-ST-10000760	Office Supplies	Storage	Eldon Fold N Roll Cart ...
5	FUR-FU-10001487	Furniture	Furnishings	Eldon Expressions Wo...
6	OFF-AR-10002833	Office Supplies	Art	Newell 322
7	TEC-PH-10002775	Technology	Phones	Mitel 5320 IP Phone V...
8	OFF-BI-10003910	Office Supplies	Binders	DXL Angle-View Binder...
9	OFF-AP-10002892	Office Supplies	Appliances	Belkin F5C206VTEL 6 ...
10	FUR-TA-10001539	Furniture	Tables	Chromcraft Rectangula...
11	TEC-PH-10002033	Technology	Phones	Konftel 250 Conferenc...
12	OFF-PA-10002365	Office Supplies	Paper	Xerox 1967

Total rows: 15 of 15 Query complete 00:00:00.074 Ln 4, Col 1

- Tampilkan kolom customer\_id, customer\_name, order\_id, order\_date, dan ship\_date dengan menggabungkan table customer dan sales berdasarkan kolom relasi customer\_id (tanpa inisial)

pgAdmin 4

File Object Tools Help

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Query

```

4 SELECT * FROM product;
5
6 --2
7 SELECT customer.customer_id, customer.customer_name, sales.order_id, sales.order_date, sales.ship_date
8 FROM customer JOIN sales
9 ON customer.customer_id = sales.customer_id;
10

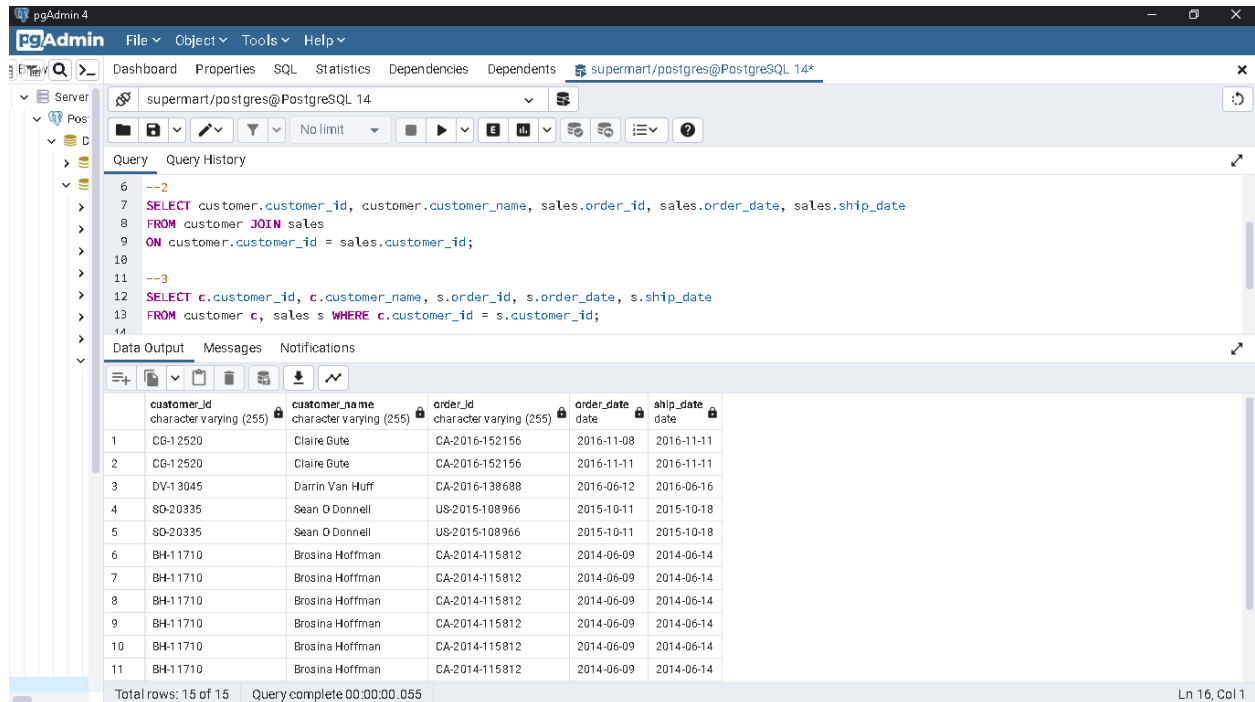
```

Data Output

	customer_id character varying (255)	customer_name character varying (255)	order_id character varying (255)	order_date date	ship_date date
1	CG-12520	Claire Gule	CA-2016-152156	2016-11-08	2016-11-11
2	CG-12520	Claire Gule	CA-2016-152156	2016-11-11	2016-11-11
3	DV-13045	Darrin Van Huff	CA-2016-138688	2016-06-12	2016-06-16
4	SO-20335	Sean O'Donnell	US-2015-108966	2015-10-11	2015-10-18
5	SO-20335	Sean O'Donnell	US-2015-108966	2015-10-11	2015-10-18
6	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
7	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
8	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
9	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
10	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
11	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
12	AA-10480	Andrew Allen	CA-2014-114412	2017-04-15	2017-04-20

Total rows: 15 of 15 Query complete 00:00:00.144 Ln 7, Col 103

3. Tampilkan kolom `customer_id`, `customer_name`, `order_id`, `order_date`, dan `ship_date` dengan menggabungkan table `customer` dan `sales` berdasarkan kolom relasi `customer_id` (menggunakan inisial)



The screenshot shows the pgAdmin 4 interface. The query editor contains two SQL queries. The first query is a JOIN query, and the second is a WHERE query. The results of the second query are displayed in a table below the editor.

```
6 --2
7 SELECT customer.customer_id, customer.customer_name, sales.order_id, sales.order_date, sales.ship_date
8 FROM customer JOIN sales
9 ON customer.customer_id = sales.customer_id;
10
11 --3
12 SELECT c.customer_id, c.customer_name, s.order_id, s.order_date, s.ship_date
13 FROM customer c, sales s WHERE c.customer_id = s.customer_id;
14
```

	customer_id character varying (255)	customer_name character varying (255)	order_id character varying (255)	order_date date	ship_date date
1	CG-12520	Claire Gute	CA-2016-152156	2016-11-08	2016-11-11
2	CG-12520	Claire Gute	CA-2016-152156	2016-11-11	2016-11-11
3	DV-13045	Darrin Van Huff	CA-2016-138688	2016-06-12	2016-06-16
4	SO-20335	Sean O Donnell	US-2015-108966	2015-10-11	2015-10-18
5	SO-20335	Sean O Donnell	US-2015-108966	2015-10-11	2015-10-18
6	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
7	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
8	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
9	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
10	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14
11	BH-11710	Brosina Hoffman	CA-2014-115812	2014-06-09	2014-06-14

Total rows: 15 of 15    Query complete 00:00:00.055    Ln 16, Col 1

4. Menampilkan kolom `customer_id`, `customer_name`, `segment`, `order_date`, `ship_date`, dan `ship_mode` dengan menggabungkan tabel `customer` dan `sales` berdasarkan kolom relasi `customer_id` dengan kondisi `ship_mode = 'Second Class'`

pgAdmin 4

supermart/postgres@PostgreSQL 14\*

```

12 SELECT c.customer_id, c.customer_name, s.order_id, s.order_date, s.ship_date
13 FROM customer c, sales s WHERE c.customer_id = s.customer_id;
14
15 --4
16 SELECT c.customer_id, c.customer_name, c.segment, s.order_date, s.ship_date, s.ship_mode
17 FROM customer c, sales s WHERE c.customer_id = s.customer_id
18 AND ship_mode = 'Second Class';
19

```

	customer_id character varying (255)	customer_name character varying (255)	segment character varying (255)	order_date date	ship_date date	ship_mode character varying (255)
1	CG-12520	Claire Gule	Customer	2016-11-08	2016-11-11	Second Class
2	CG-12520	Claire Gule	Customer	2016-11-11	2016-11-11	Second Class
3	DV-13045	Darrin Van Huff	Corporate	2016-06-12	2016-06-16	Second Class

Total rows: 3 of 3    Query complete 00:00:00.053    Ln 19, Col 1

## 5. Menggabungkan tabel product dan sales menggunakan perintah JOIN - ON berdasar kolom relasi product\_id

pgAdmin 4

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```

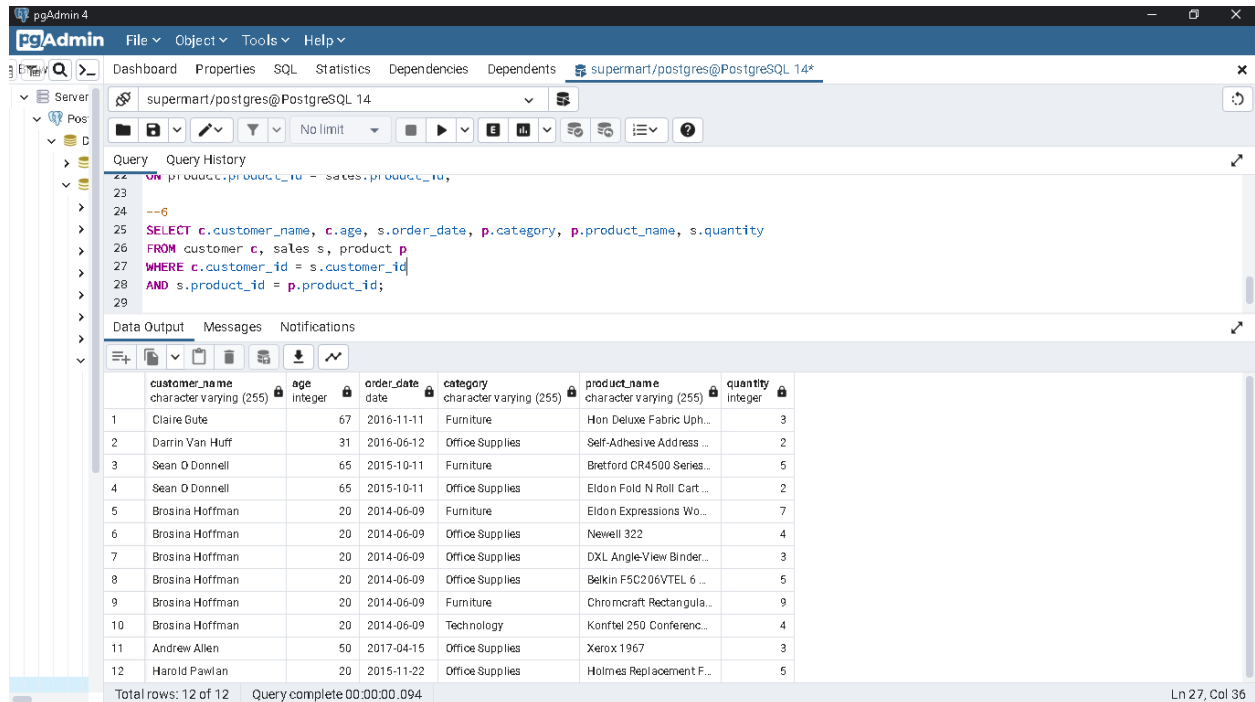
16 SELECT c.customer_id, c.customer_name, c.segment, s.order_date, s.ship_date, s.ship_mode
17 FROM customer c, sales s WHERE c.customer_id = s.customer_id
18 AND ship_mode = 'Second Class';
19
20 --5
21 SELECT * FROM product JOIN sales
22 ON product.product_id = sales.product_id;
23
24

```

	product_id character varying (255)	category character varying (255)	sub_category character varying (255)	product_name character varying (255)	order_line integer	order_id character varying (255)	order_date date	ship_date date	ship_mode character varying (255)	customer_id
1	FUR-CH-10000454	Furniture	Chairs	Hon Deluxe Fabric Uph...	2	CA-2016-152156	2016-11-11	2016-11-11	Second Class	CG
2	OFF-LA-10000240	Office Supplies	Labels	Self-Adhesive Address ...	3	CA-2016-138688	2016-06-12	2016-06-16	Second Class	DV
3	FUR-TA-10000577	Furniture	Tables	Bretford CR4500 Series...	4	US-2015-108966	2015-10-11	2015-10-18	Standard Class	SO
4	OFF-ST-10000760	Office Supplies	Storage	Eldon Fold N Roll Cart...	5	US-2015-108966	2015-10-11	2015-10-18	Standard Class	SO
5	FUR-FU-10001487	Furniture	Furnishings	Eldon Expressions Wo...	6	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH
6	OFF-AR-10002833	Office Supplies	Art	Newell 322	7	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH
7	OFF-BI-10003910	Office Supplies	Binders	DXL Angle-View Binder...	9	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH
8	OFF-AP-10002892	Office Supplies	Appliances	Belkin F5C206VTEL 6 ...	10	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH
9	FUR-TA-10001539	Furniture	Tables	Chromcraft Rectangula...	11	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH
10	OFF-PA-10002365	Office Supplies	Paper	Xerox 1967	13	CA-2014-114412	2017-04-15	2017-04-20	Standard Class	AA
11	OFF-PA-10002365	Office Supplies	Paper	Xerox 1967	13	CA-2014-114412	2017-04-15	2017-04-20	Standard Class	AA

Total rows: 12 of 12    Query complete 00:00:00.155    Ln 22, Col 42

6. Menampilkan kolom customer\_name, age, order\_date, category, product\_name, dan quantity dengan menggabungkan tabel customer, product, dan sales menggunakan inisial c untuk tabel customer, p untuk tabel product, dan s untuk tabel sales



The screenshot shows the pgAdmin 4 interface. The 'Query' tab is active, displaying a SQL query that joins the 'customer', 'sales', and 'product' tables. The 'Data Output' tab shows the results of the query, which is a table with 12 rows and 6 columns: customer\_name, age, order\_date, category, product\_name, and quantity. The status bar at the bottom indicates 'Total rows: 12 of 12' and 'Query complete 00:00:00.094'.

```
22 -- product.product_id = sales.product_id;
23
24 --6
25 SELECT c.customer_name, c.age, s.order_date, p.category, p.product_name, s.quantity
26 FROM customer c, sales s, product p
27 WHERE c.customer_id = s.customer_id
28 AND s.product_id = p.product_id;
29
```

	customer_name character varying (255)	age integer	order_date date	category character varying (255)	product_name character varying (255)	quantity integer
1	Claire Gute	67	2016-11-11	Furniture	Hon Deluxe Fabric Uph...	3
2	Darrin Van Huff	31	2016-06-12	Office Supplies	Self-Adhesive Address ...	2
3	Sean O Donnell	65	2015-10-11	Furniture	Bretford CR4500 Series...	5
4	Sean O Donnell	65	2015-10-11	Office Supplies	Eldon Fold N Roll Cart ...	2
5	Brosina Hoffman	20	2014-06-09	Furniture	Eldon Expressions Wo...	7
6	Brosina Hoffman	20	2014-06-09	Office Supplies	Newell 322	4
7	Brosina Hoffman	20	2014-06-09	Office Supplies	DXL Angle-View Binder...	3
8	Brosina Hoffman	20	2014-06-09	Office Supplies	Belkin F5C206VTEL 6 ...	5
9	Brosina Hoffman	20	2014-06-09	Furniture	Chromcraft Rectangula...	9
10	Brosina Hoffman	20	2014-06-09	Technology	Konftel 250 Conferenc...	4
11	Andrew Allen	50	2017-04-15	Office Supplies	Xerox 1967	3
12	Harold Pawlan	20	2015-11-22	Office Supplies	Holmes Replacement F...	5

Total rows: 12 of 12    Query complete 00:00:00.094    Ln 27, Col 36