LAPORAN AKHIR PRAKTIKUM

Mata Praktikum : Interaksi Manusia dan Komputer

Kelas : 3IA02

Praktikum ke- : 3

Tanggal : 26/10/22

Materi : Data Transaction Language

NPM : 50420562

Nama : Ibrahim Bramullah

Ketua Asisten : Natasya Rahma Fadilla

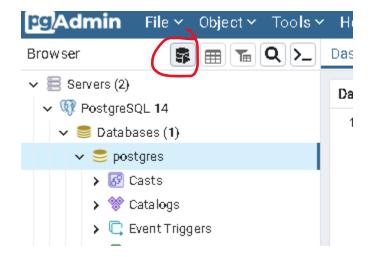
Paraf Asisten :

Nama Asisten :

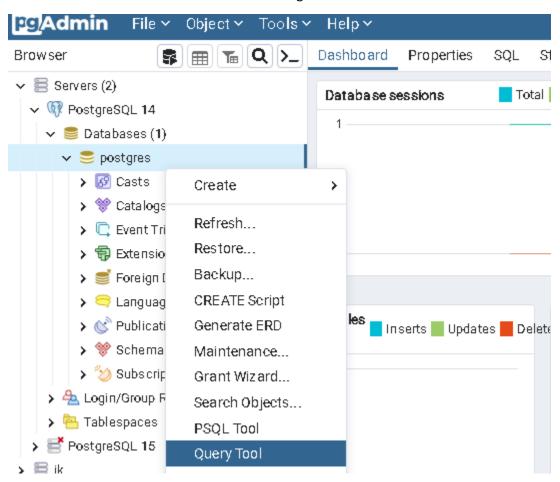
Jumlah Lembar : 11 Lembar

LABORATORIUM TEKNIK INFORMATIKA UNIVERSITAS GUNADARMA 2022

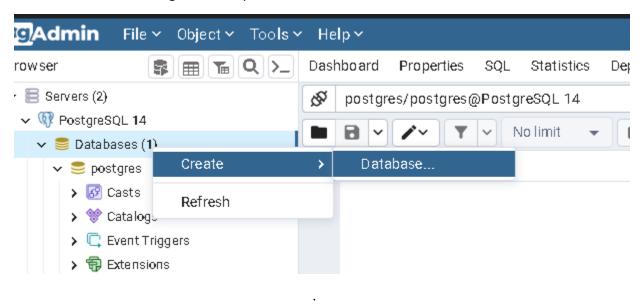
Buka Query Tool



Atau dengan



1. Buatlah database dengan nama supermart

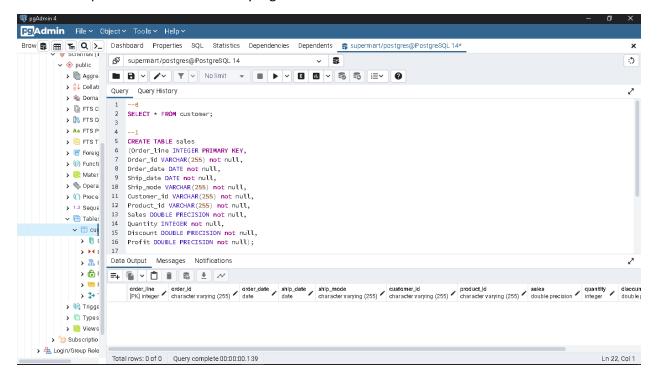


2. Buat table dengan nama sales dengan ketentuan

Field	Tipe Data	Panjang	Keterangan	
order_line	Integer		Primary Key	
order_id	Varchar	255	Not Null	
order_date	Date	-	Not Null	
ship_date	Date	-	Not Null	
ship_mode	Varchar	255	Not Null	
customer_id	Varchar	255	Not Null	
product_id	Varchar	255	Not Null	
sales	Double Precision	-	Not Null	
quantity	Integer	-	Not Null	
discount	Double Precision	-	Not Null	
profit	Double Precision	-	Not Null	

```
supermart/postgres@PostgreSQL 14
🗸 📀 public
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                                          No limit
  > å↓ Collation
                Query Query History
  Domains
                 1
                     --0
  FTS Con:
                 2
                     SELECT * FROM customer;
  > 🌃 FTS Dict
  > Aa FTS Pars
                 4
  > 📵 FTS Tem
                 5
                     CREATE TABLE sales
                 6
                    (Order line INTEGER PRIMARY KEY,
  > 📑 Foreign T
                 7
                    Order_id VARCHAR(255) not null,
  > (ii) Function
                 8 Order_date DATE not null,
  > 📵 Materiali
                 9 Ship_date DATE not null,
  > % Operator
                10 Ship_mode VARCHAR(255) not null,
  > (() Procedur
                11 Customer_id VARCHAR(255) not null,
                12
                    Product_id VARCHAR(255) not null,
  > 1.3 Sequenc
                13
                    Sales DOUBLE PRECISION not null,
  🗸 🛗 Tables (1
                14
                    Quantity INTEGER not null,
    🗸 🖽 custo
                    Discount DOUBLE PRECISION not null,
      > 🗎 Col
                16 Profit DOUBLE PRECISION not null);
      > M Cor
                17
                Data Output Messages Notifications
      > 🚠 Ind
```

3. Tampilkan struktur table sales yang telah dibuat





4. Masukkan data berikut ke dalam table sales lalu tampilkan isi table customer tersebut

1	CA-2016-152156	2016-11-08	2016-11-11	Second Class	CG-12520	FUR-BO-10001798	261.96	2	0	41.9136
2	CA-2016-152156	2016-11-08	2016-11-11	Second Class	CG-12520	FUR-CH-10000454	731.94	3	0	219.582
3	CA-2016-138688	2016-06-12	2016-06-16	Second Class	DV-13045	OFF-LA-10000240	14.62	2	0	6.8714
4	US-2015-108966	2015-10-11	2015-10-18	Standard Class	SO-20335	FUR-TA-10000577	957.5775	5	0.45	-383.031
5	US-2015-108966	2015-10-11	2015-10-18	Standard Class	SO-20335	OFF-ST-10000760	22.368	2	0.2	2.5164
6	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	FUR-FU-10001487	48.86	7	0	14.1694
7	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-AR-10002833	7.28	4	0	1.9656
8	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	TEC-PH-10002275	907.152	6	0.2	90.7152
9	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-BI-10003910	18.504	3	0.2	5.7825
10	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-AP-10002892	114.9	5	0	34.47
11	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	FUR-TA-10001539	1706.184	9	0.2	85.3092
12	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	TEC-PH-10002033	911.424	4	0.2	68.3568
13	CA-2017-114412	2017-04-15	2017-04-20	Standard Class	AA-10480	OFF-PA-10002365	15.552	3	0.2	5.4432
14	CA-2016-161389	2016-12-05	2016-12-10	Standard Class	IM-15070	OFF-BI-10003656	407.976	3	0.2	132.5922
15	US-2015-118983	2015-11-22	2015-11-26	Standard Class	HP-14815	OFF-AP-10002311	68.81	5	0.8	-123.858
16	US-2015-118983	2015-11-22	2015-11-26	Standard Class	HP-14815	OFF-BI-10000756	2.544	3	0.8	-3.816

```
Query Query History
      19
          SELECT * FROM sales;
>
     20
     21
>
          INSERT INTO sales VALUES(1,'CA-2016-152156','2016-11-08','2016-11-11','Second Class','CG-12520','FUR-BO-10001798',261.96,2,0,41.9136);
           INSERT INTO sales VALUES(2, 'CA-2016-152156', '2016-11-11', '2016-11-11', 'Second Class', 'CG-12520', 'FUR-CH-10000454', 731.94, 3, 0, 219.582);
INSERT INTO sales VALUES(3, 'CA-2016-138688', '2016-06-12', '2016-06-16', 'Second Class', 'DV-13045', 'OFF-LA-10000240', 14.62, 2, 0, 6.8714);
     23
           INSERT INTO sales VALUES(4, 'US-2015-108966', '2015-10-11', '2015-10-18', 'Standard Class', 'SO-20335', 'FUR-TA-10000577', 957.5775,5, 0.45, -383.031);
           INSERT INTO sales VALUES(5, 'US-2015-108966', '2015-10-11', '2015-10-18', 'Standard Class', 'SO-20335', 'OFF-ST-10000760', 22.368, 2, 0.2, 2.5164);
           INSERT INTO sales VALUES(6, 'CA-2014-115812', '2014-06-09', '2014-06-14', 'Standard Class', 'BH-11710', 'FUR-FU-10001487', 48.86,7,0,14.1694);
           INSERT INTO sales VALUES(7, 'CA-2014-115812', '2014-06-09', '2014-06-14', 'Standard Class', 'BH-11710', 'OFF-AR-10002833', 7.28,4,0,1.9656);
      29
           INSERT INTO sales VALUES(8, 'CA-2014-115812', '2014-06-09', '2014-06-14', 'Standard Class', 'BH-11710', 'TEC-PH-10002275', 907.152, 6, 0.2, 90.7152);
           INSERT INTO sales VALUES (9, 'CA-2014-115812', '2014-06-09', '2014-06-14', 'Standard Class', 'BH-11710', 'OFF-BI-10003910', 18.504, 3.0.2, 5.7825);
      30
           INSERT INTO sales VALUES(10, 'CA-2014-115812', '2014-06-09', '2014-06-14', 'Standard Class', 'BH-11710', 'OFF-AP-10002892', 114.9, 5, 0, 34.47);
     32
           INSERT INTO sales VALUES(11, 'CA-2014-115812', '2014-06-09', '2014-06-14', 'Standard Class', 'BH-11710', FUR-TA-10001539', 1706.184, 9, 0.2, 85.3092);
           INSERT INTO sales VALUES(12.'CA-2014-115812'.'2014-06-09','2014-06-14','Standard Class','BH-11710','TEC-PH-10002033',911.424,4,0.2.68.3568);
     33
           INSERT INTO sales VALUES(13, 'CA-2014-114412', '2017-04-15', '2017-04-20', 'Standard Class', 'AA-10480', 'OFF-PA-10002365', 15.552, 3, 0.2, 5.4432);
           INSERT INTO sales VALUES(14, 'CA-2014-161389', '2016-12-05', '2016-12-10', 'Standard Class', 'IM-15070', 'OFF-BI-10002365', '407.976, 3, 0.2, 132.5922);
      35
          INSERT INTO sales VALUES(15, 'US-2015-118983','2015-11-22','2015-11-26','Standard Class','HP-14815','OFF-AP-10002311',68.81,5,0.8,-123.858);
INSERT INTO sales VALUES(16,'US-2015-118983','2015-11-22','2015-11-26','Standard Class','HP-14815','OFF-BI-10000756',2.544,3,0.8,-3.816);
     36
     Data Output Messages Notifications
     INSERT 0 1
      Query returned successfully in 71 msec.
```

Data Output Messages Notifications 타 🔓 v 📋 🔋 🕏 🛂 🕢 order_line [PK] integer / character varying (255) / ship_date ship_mode character varying (255) customer_ld character varying (255) product_id character varying (255) double precision / CA-2016-152156 2016-11-08 2016-11-11 Second Class CG-12520 FUR-BO-10001798 261.96 0 2016-11-11 2 CA-2016-152156 2016-11-11 CG-12520 FUR-CH-10000454 731.94 Second Class 0 DV-13045 OFF-LA-10000240 14.62 3 CA-2016-138688 2016-06-12 2016-06-16 Second Class 0 3 4 4 US-2015-108966 2015-10-11 2015-10-18 Standard Class SO-20335 FUR-TA-10000577 957.5775 0.45 5 5 US-2015-108966 2015-10-11 2015-10-18 Standard Class 80-20335 OFF-ST-10000760 22.368 0.2 6 CA-2014-115812 2014-06-09 2014-06-14 Standard Class BH-11710 FUR-FU-10001487 48.86 0 CA-2014-115812 2014-06-09 2014-06-14 Standard Class BH-11710 OFF-AR-10002833 7.28 n 8 8 CA-2014-115812 2014-06-09 2014-06-14 Standard Class BH-11710 TEC-PH-10002275 907.152 0.2 CA-2014-115812 2014-06-09 2014-06-14 Standard Class BH-11710 OFF-BI-10003910 18,504 0.2 10 10 CA-2014-115812 2014-06-09 2014-06-14 Standard Class BH-11710 OFF-AP-10002892 114.9 0 11 2014-06-09 2014-06-14 Standard Class BH-11710 FUR-TA-10001539 1706.184 0.2 12 12 CA-2014-115812 2014-06-09 2014-06-14 Standard Class BH-11710 TEC-PH-10002033 911 424 0.2 13 13 CA-2014-114412 2017-04-15 2017-04-20 AA-1 0480 OFF-PA-10002365 15.552 0.2 IM-15070 407.976 14 14 CA-2014-161389 2016-12-05 2016-12-10 Standard Class OFF-BI-10002365 0.2

HP-14815

HP-14815

OFF-AP-10002311

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15 US-2015-118983

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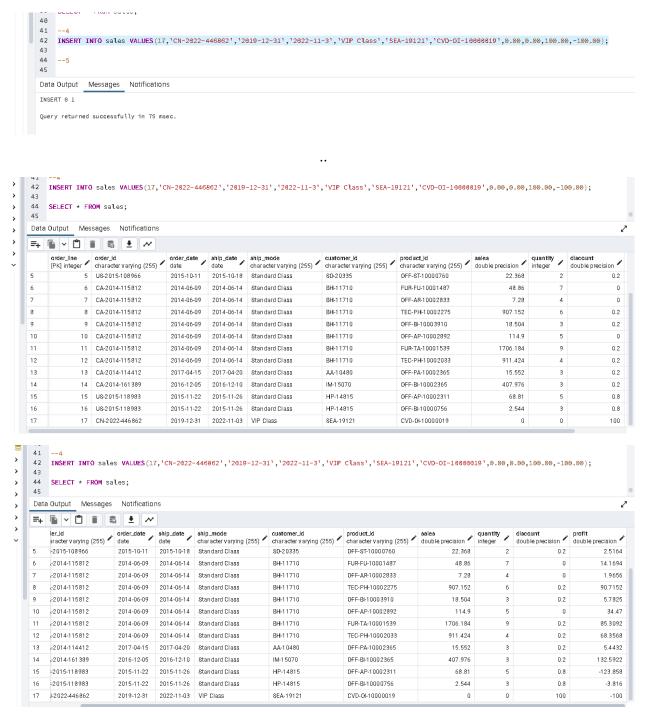
2015-11-22

2015-11-26 Standard Class

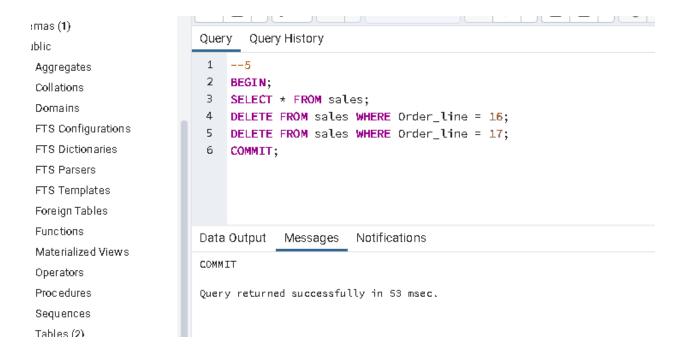
2015-11-22 2015-11-26 Standard Class

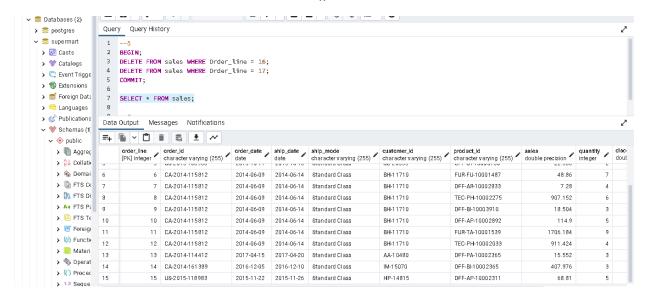
	order_ld character varying (255)	order_date /	ship_date /	ship_mode character varying (255)	customer_id character varying (255)	product_id character varying (255)	sales double precision	quantity integer /	dlacount double precision	profit double precision
1	CA-2016-152156	2016-11-08	2016-11-11	Second Class	CG-12520	FUR-B0-10001798	261.96	2	0	41.9136
2	CA-2016-152156	2016-11-11	2016-11-11	Second Class	CG-12520	FUR-CH-10000454	731.94	3	0	219.582
3	CA-2016-138688	2016-06-12	2016-06-16	Second Class	DV-1 3045	OFF-LA-10000240	14.62	2	0	6.8714
4	US-2015-108966	2015-10-11	2015-10-18	Standard Class	80-20335	FUR-TA-10000577	957.5775	5	0.45	-383.031
5	US-2015-108966	2015-10-11	2015-10-18	Standard Class	\$0-20335	OFF-ST-10000760	22.368	2	0.2	2.5164
6	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	FUR-FU-10001487	48.86	7	0	14.1694
7	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-AR-10002833	7.28	4	0	1.9656
8	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	TEC-PH-10002275	907.152	6	0.2	90.7152
9	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-BI-10003910	18.504	3	0.2	5.7825
10	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-AP-10002892	114.9	5	0	34.47
11	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	FUR-TA-10001539	1706.184	9	0.2	85.3092
12	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	TEC-PH-10002033	911.424	4	0.2	68.3568
13	CA-2014-114412	2017-04-15	2017-04-20	Standard Class	AA-1 0480	OFF-PA-10002365	15.552	3	0.2	5.4432
14	CA-2014-161389	2016-12-05	2016-12-10	Standard Class	IM-1 5070	OFF-BI-10002365	407.976	3	0.2	132.5922
15	US-2015-118983	2015-11-22	2015-11-26	Standard Class	HP-14815	OFF-AP-10002311	68.81	5	0.8	-123.858
16	US-2015-118983	2015-11-22	2015-11-26	Standard Class	HP-14815	OFF-BI-10000756	2.544	3	0.8	-3.816

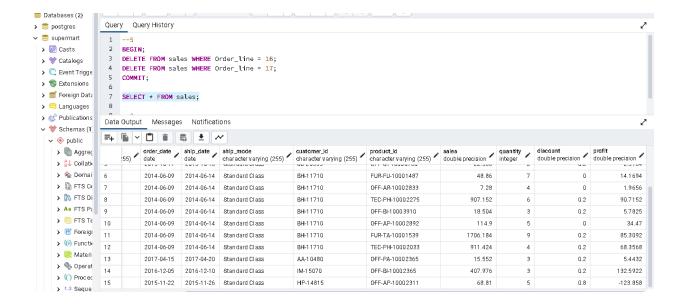
Tambahkan 1 record data dengan order_line = 17 (field lain isi bebas)



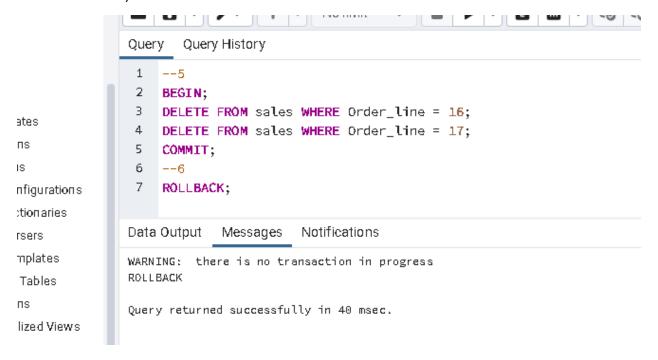
6. Buatlah perintah COMMIT dengan menghapus record yang memiliki order_line 16 dan 17







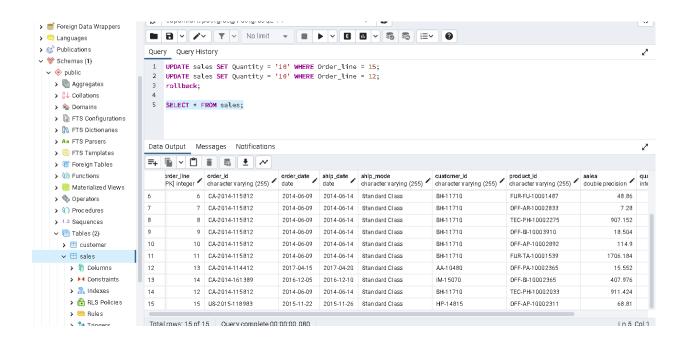
7. Lakukan ROLLBACK dari hasil COMMIT pada nomor 5 (screenshot output/message yang dihasilkan)



8. Membuat perintah ROLLBACK dengan mengupdate quantity (ditambah atau dikurangi) dari 2 record berbeda (order_line bebas)



SELECT * FROM sales; 5 UPDATE sales SET Quantity = '10' WHERE Order_line 15; UPDATE sales SET Quantity = '0' WHERE Order_line 12; Data Output Messages Notifications =+ 🖺 ∨ 🖺 5 <u>*</u> ~ quantity / profit double precision te ship_date ship_mode customer id product_ld discount double precision character varying (255) double precision 🖊 character varying (255) character varying (255) date integer 2014-06-14 Standard Class BH-11710 FUR-FU-10001487 0 2014-06-14 Standard Class BH-11710 OFF-AR-10002833 7.28 0 1.9656 2014-06-14 Standard Class BH-11710 TEC-PH-10002275 907.152 0.2 90.7152 BH-11710 0.2 5.7825 2014-06-14 Standard Class OFF-BI-10003910 18.504 10 BH-11710 0 34.47 2014-06-14 Standard Class OFF-AP-10002892 114.9 2014-06-14 Standard Class BH-11710 FUR-TA-10001539 1706.184 0.2 85.3092 12 15 2017-04-20 Standard Class AA-1 0480 OFF-PA-10002365 15.552 0.2 5.4432 13 -05 2016-12-10 Standard Class IM-15070 OFF-BI-10002365 407.976 0.2 132.5922 OFF-AP-10002311 22 2015-11-26 Standard Class HP-14815 68.81 10 0.8 -123.858 15 09 2014-06-14 Standard Class BH-11710 TEC-PH-10002033 911.424 0.2 68.3568



Data Output Messages Notifications 타 🖺 v 📋 📋 💲 👤 🕢 quantity / customer_id discount te ship_date ship_mode product_id profit double precision 🖍 double precision / character varying (255) character varying (255) character varying (255) double precision 🖍 6 -09 2014-06-14 Standard Class BH-11710 FUR-FU-10001487 48.86 0 14 1 6 9 4 ng 2014-06-14 Standard Class RH-11710 OFF-AR-10002833 7.28 4 0 1.9656 BH-11710 907.152 90.7152 8 -09 2014-06-14 Standard Class TEC-PH-10002275 6 0.2 -09 2014-06-14 Standard Class BH-11710 OFF-BI-10003910 18.504 3 0.2 5.7825 10 114.9 5 34.47 -09 2014-06-14 Standard Class BH-11710 OFF-AP-10002892 0 11 2014-06-14 Standard Class BH-11710 FUR-TA-10001539 1706.184 9 0.2 85.3092 09 12 2017-04-20 Standard Class AA-1 0480 OFF-PA-10002365 15.552 3 0.2 5.4432 15 13 2016-12-10 Standard Class IM-15070 OFF-BI-10002365 407.976 3 0.2 132.5922 BH-11710 TEC-PH-10002033 2014-06-14 Standard Class 911.424 0.2 68.3568 es 2015-11-26 Standard Class HP-14815 OFF-AP-10002311 68.81 5 8.0 -123.858 Total rows: 15 of 15 Query complete 00:00:00.080 Ln 5, Col 1

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