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# Soal

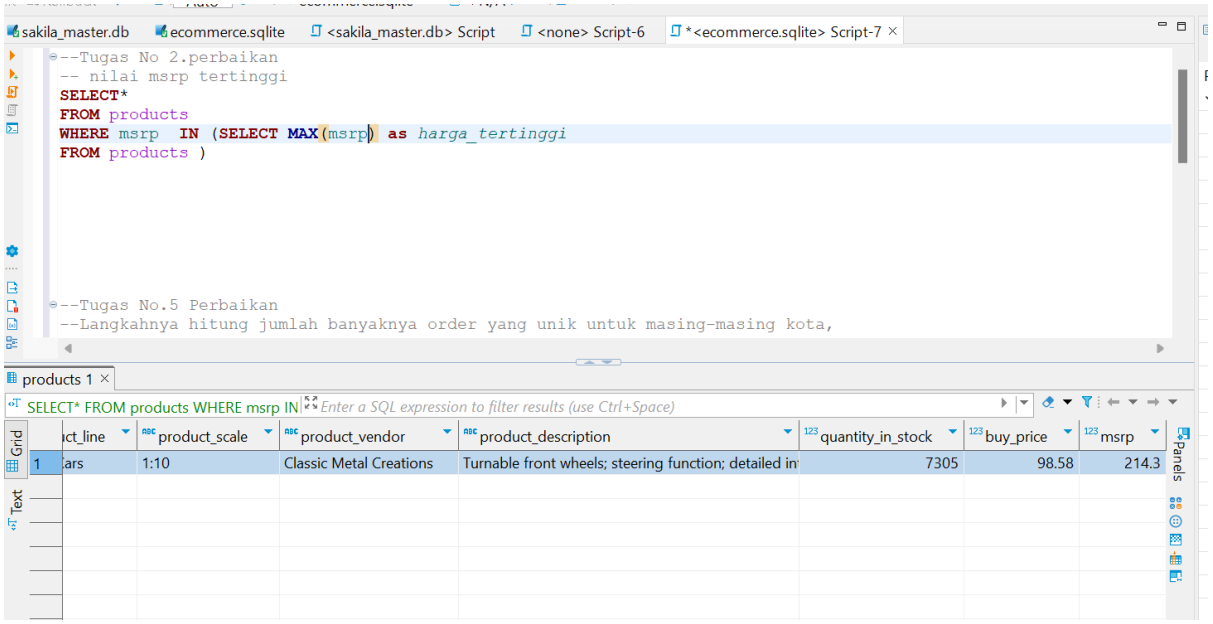
1. Kita telah belajar mengenai konsep primary key dan foreign key. Sering kali pada praktik di lapangan, database diimplementasi tanpa menggunakan foreign key karena penggunaan foreign key akan meningkatkan beban database dalam melakukan operasi write(menulis data kedalam database).

   Pada ER Diagram, kita akan melihat tabel tabel yang tidak terhubung. Kira-kira, apa saja hubungan antar tabel? Lengkapi tabel berikut

| Tabel1 | Hubungan | Tabel2 | join key |
|---|---|---|---|
| customers | many to one | employees | customers.sales_rep_employee_number = employees.employee_number |
| customers | One to many | payments | customer_number |
| customers | one to many | orders | customers.customer_number = orders.customer_number |
| orders | One to many | orderdetails | orders.order_number=orderderails.order_number |
| orderdetails | Many to one | products | orderdetails.product_code=products.product_code |
| products | Many to one | product_lines | Products.product_line=product_lines.product_line |

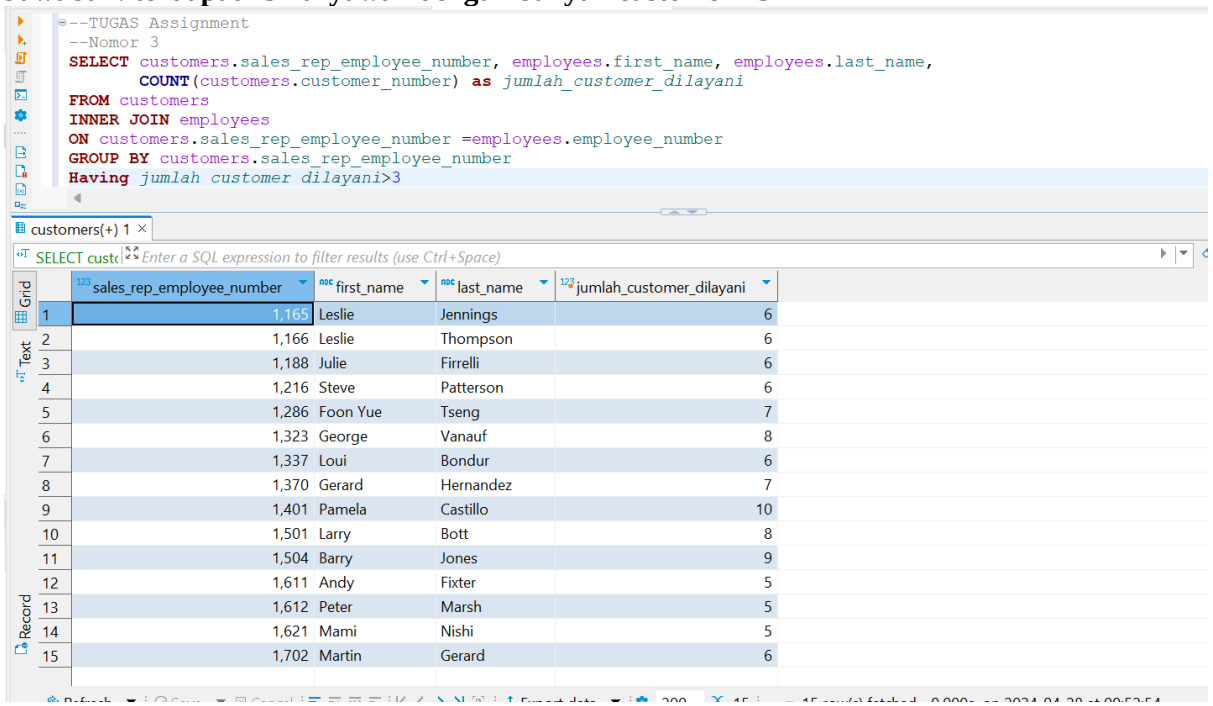
2. Cari produk dengan msrp paling tinggi (Jangan hanya menunjukkan harga, tapi infokan juga tentang produknya apa)

**Jawaban: Alpine Renault 1300 merupakan produk dengan msrp tertinggi**




3. Setiap customer akan di handle oleh suatu agen. Informasi tentang siapa agen yang melayani customer tersebut tersimpan dalam kolom sales_rep_employee_number pada tabel customers. Perusahaan ingin memberikan bonus kepada karyawan yang telah melayani lebih dari 3 customer. Carilah sales_rep_employee_number dengan banyak customer > 3.

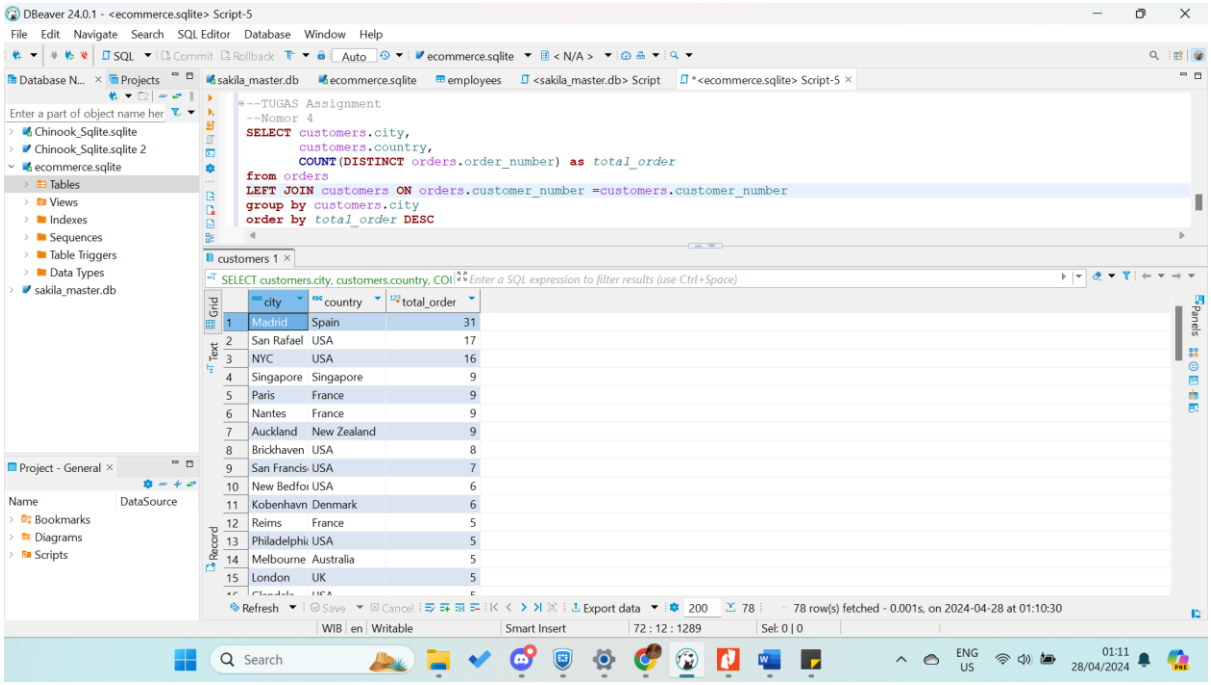
**Jawaban: terdapat 15 karyawan dengan banyak customer >3**




4. Kota mana yang memiliki banyak order tertinggi?

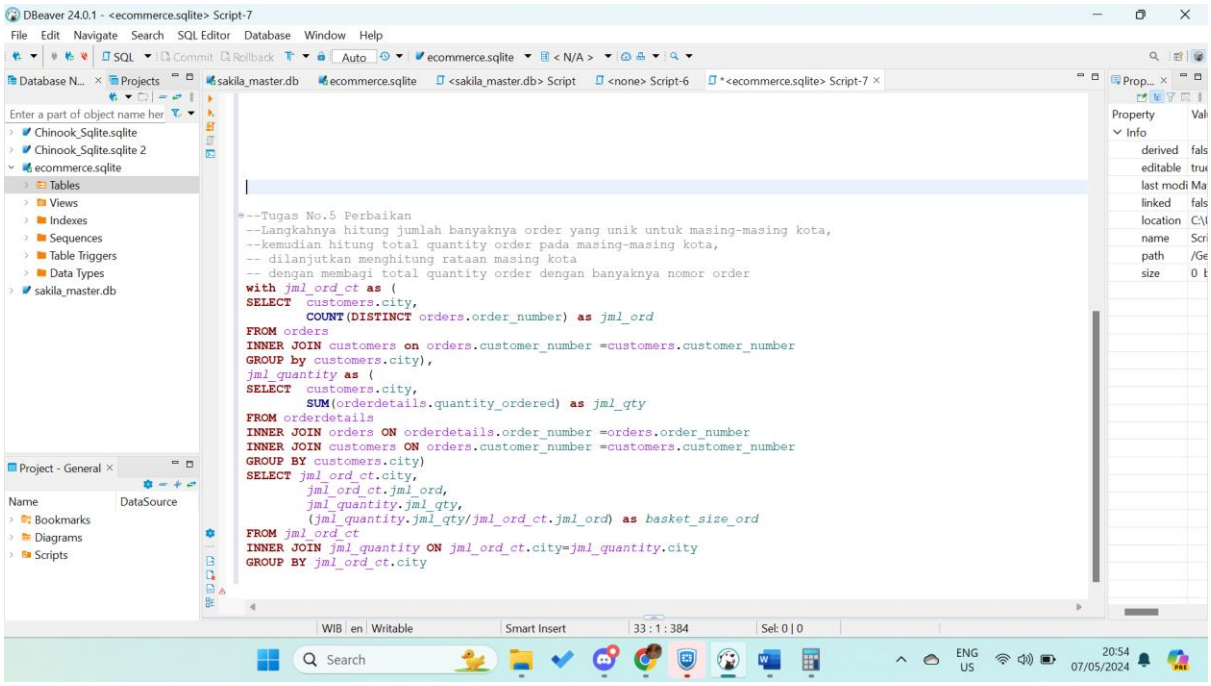
HINT : Gunakan **count(distinct** nama_kolom) untuk agregasi menghitung

**Jawaban: Madrid**

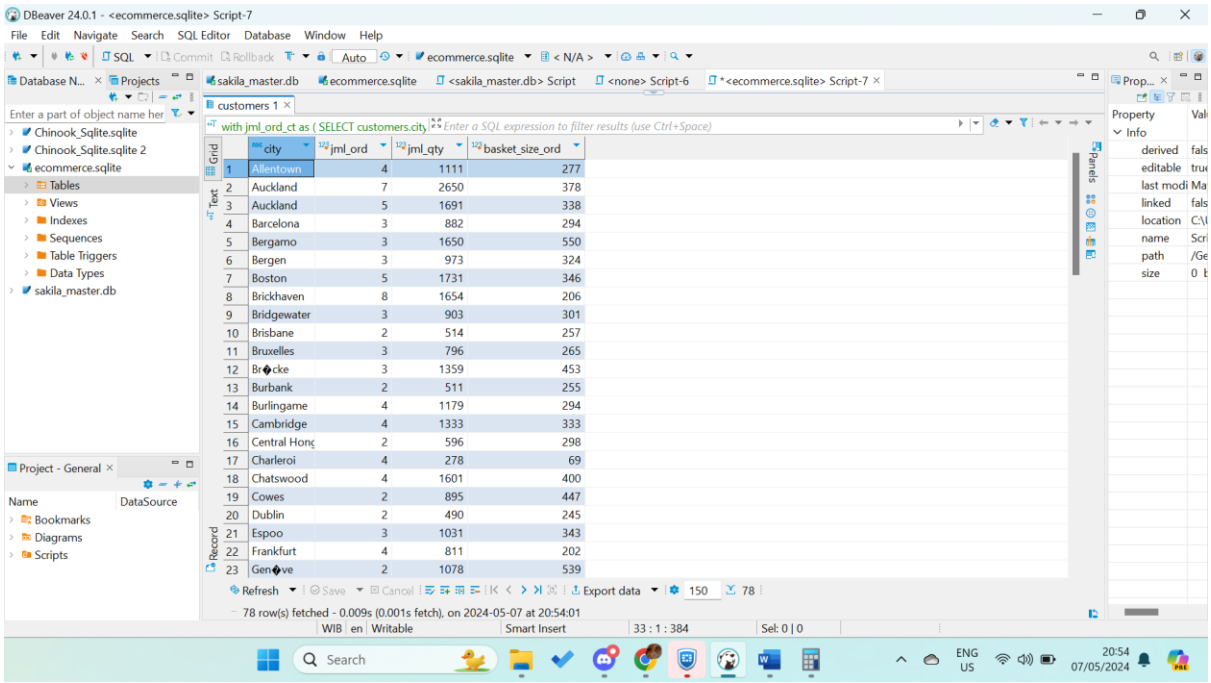


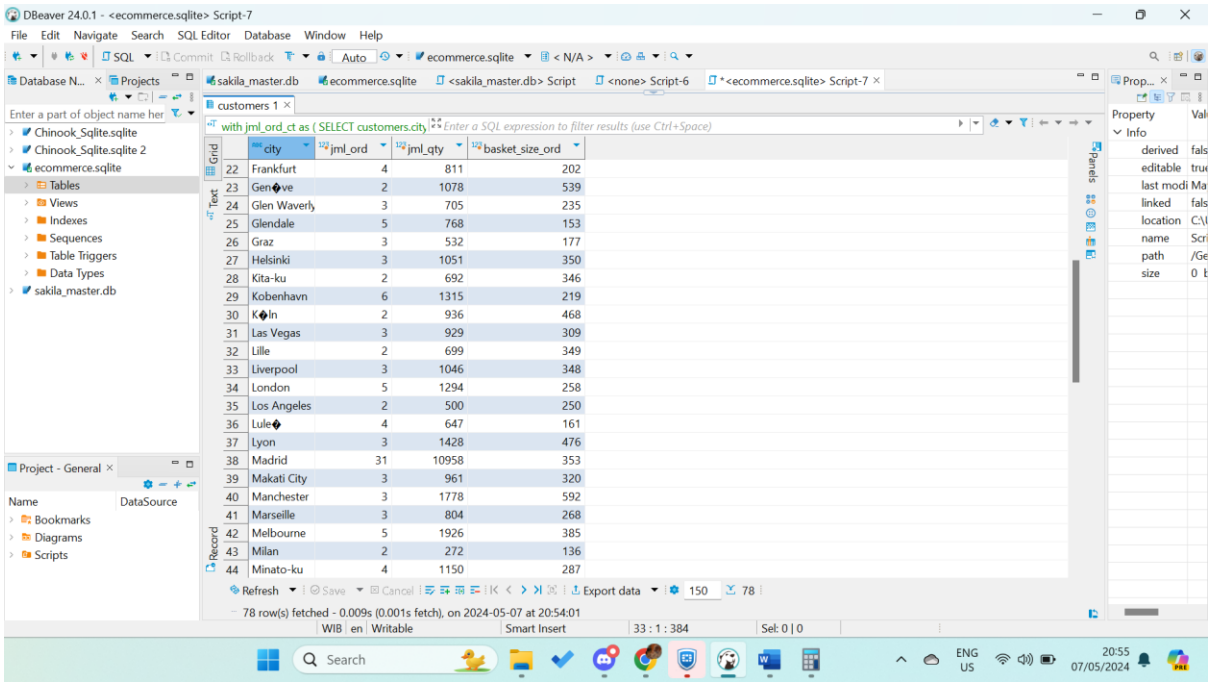

5. Basket Size adalah suatu term yang sering digunakan pada industri retail, yakni banyaknya barang yang dibelanjakan dalam suatu transaksi. Pada soal ini, anda diminta untuk menghitung rataan basket size di setiap kota.
Contoh : Pada suatu kota, terdapat 2 transaksi. Transaksi pertama berisi 1 barang A dan 2 barang B, sementara transaksi kedua berisi 2 barang C. Artinya, transaksi pertama memiliki basket size = 3 dan transaksi kedua memiliki basket size = 2. Jika dirata-ratakan, maka average basket size pada kota tersebut adalah 2.5.

**Jawaban PERBAIKAN :**




Hasilnya berikut:


DBeaver 24.0.1 - <ecommerce.sqlite> Script-7
File Edit Navigate Search SQL Editor Database Window Help
customers 1
with jml_ord_ct as ( SELECT customers.city
Enter a SQL expression to filter results (use Ctrl+Space)
city jml_ord jml_qty basket_size_ord
1 Allentown 4 1111 277
2 Auckland 7 2650 378
3 Auckland 5 1691 338
4 Barcelona 3 882 294
5 Bergamo 3 1650 550
6 Bergen 3 973 324
7 Boston 5 1731 346
8 Brickhaven 8 1654 206
9 Bridgewater 3 903 301
10 Brisbane 2 514 257
11 Bruxelles 3 796 265
12 Br?cke 3 1359 453
13 Burbank 2 511 255
14 Burlingame 4 1179 294
15 Cambridge 4 1333 333
16 Central Hong 2 596 298
17 Charleroi 4 278 69
18 Chatswood 4 1601 400
19 Cowes 2 895 447
20 Dublin 2 490 245
21 Espoo 3 1031 343
22 Frankfurt 4 811 202
23 Gen?ve 2 1078 539
Refresh Save Cancel Export data 150 78
78 row(s) fetched - 0.009s (0.001s fetch), on 2024-05-07 at 20:54:01
WIB en Writable Smart Insert 33 : 1 : 384 Sel: 0 | 0
20:54
07/05/2024


DBeaver 24.0.1 - <ecommerce.sqlite> Script-7
File Edit Navigate Search SQL Editor Database Window Help
customers 1
with jml_ord_ct as ( SELECT customers.city
Enter a SQL expression to filter results (use Ctrl+Space)
city jml_ord jml_qty basket_size_ord
22 Frankfurt 4 811 202
23 Gen?ve 2 1078 539
24 Glen Waverly 3 705 235
25 Glendale 5 768 153
26 Graz 3 532 177
27 Helsinki 3 1051 350
28 Kita-ku 2 692 346
29 Kobenhavn 6 1315 219
30 K?ln 2 936 468
31 Las Vegas 3 929 309
32 Lille 2 699 349
33 Liverpool 3 1046 348
34 London 5 1294 258
35 Los Angeles 2 500 250
36 Lule? 4 647 161
37 Lyon 3 1428 476
38 Madrid 31 10958 353
39 Makati City 3 961 320
40 Manchester 3 1778 592
41 Marseille 3 804 268
42 Melbourne 5 1926 385
43 Milan 2 272 136
44 Minato-ku 4 1150 287
Refresh Save Cancel Export data 150 78
78 row(s) fetched - 0.009s (0.001s fetch), on 2024-05-07 at 20:54:01
WIB en Writable Smart Insert 33 : 1 : 384 Sel: 0 | 0
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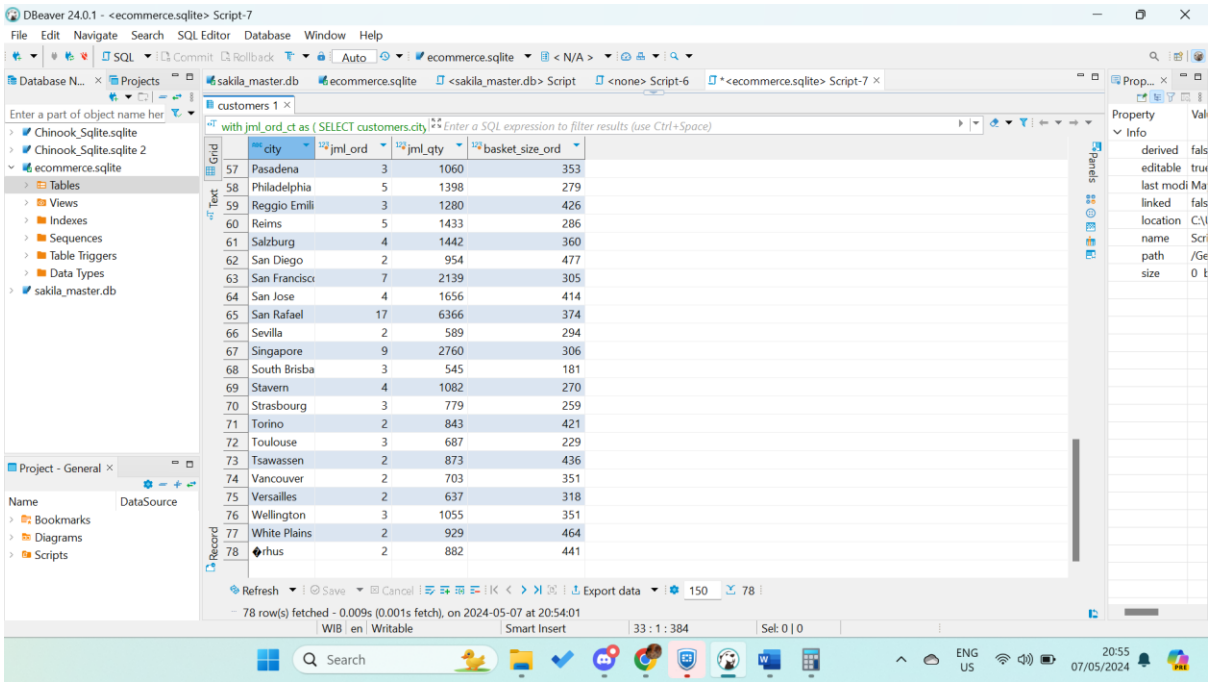
DBeaver 24.0.1 - <ecommerce.sqlite> Script-7
File Edit Navigate Search SQL Editor Database Window Help
customers 1
with jml_ord_ct as ( SELECT customers.city
Enter a SQL expression to filter results (use Ctrl+Space)
city jml_ord jml_qty basket_size_ord
57 Pasadena 3 1060 353
58 Philadelphia 5 1398 279
59 Reggio Emili 3 1280 426
60 Reims 5 1433 286
61 Salzburg 4 1442 360
62 San Diego 2 954 477
63 San Francisc 7 2139 305
64 San Jose 4 1656 414
65 San Rafael 17 6366 374
66 Sevilla 2 589 294
67 Singapore 9 2760 306
68 South Brisba 3 545 181
69 Stavern 4 1082 270
70 Strasbourg 3 779 259
71 Torino 2 843 421
72 Toulouse 3 687 229
73 Tsawassen 2 873 436
74 Vancouver 2 703 351
75 Versailles 2 637 318
76 Wellington 3 1055 351
77 White Plains 2 929 464
78 rhus 2 882 441
Refresh Save Cancel Export data 150 78
78 row(s) fetched - 0.009s (0.001s fetch), on 2024-05-07 at 20:54:01
WIB en Writable Smart Insert 33 : 1 : 384 Sel: 0 | 0
Search
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