

DataBase Systems

CS262L-Home Task



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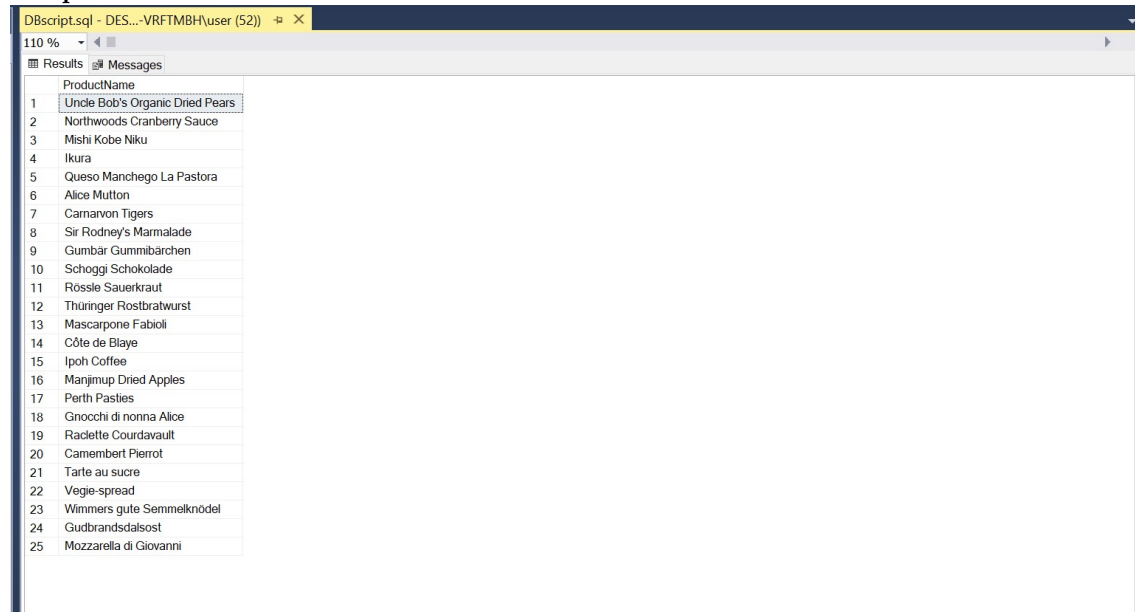
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1 Queries

1.1 List name of all the products whose price is above average.

```
SELECT ProductName
FROM Products
JOIN (SELECT AVG(UnitPrice) AS A
FROM Products) B
ON Products.UnitPrice > B.A
```

Output is:

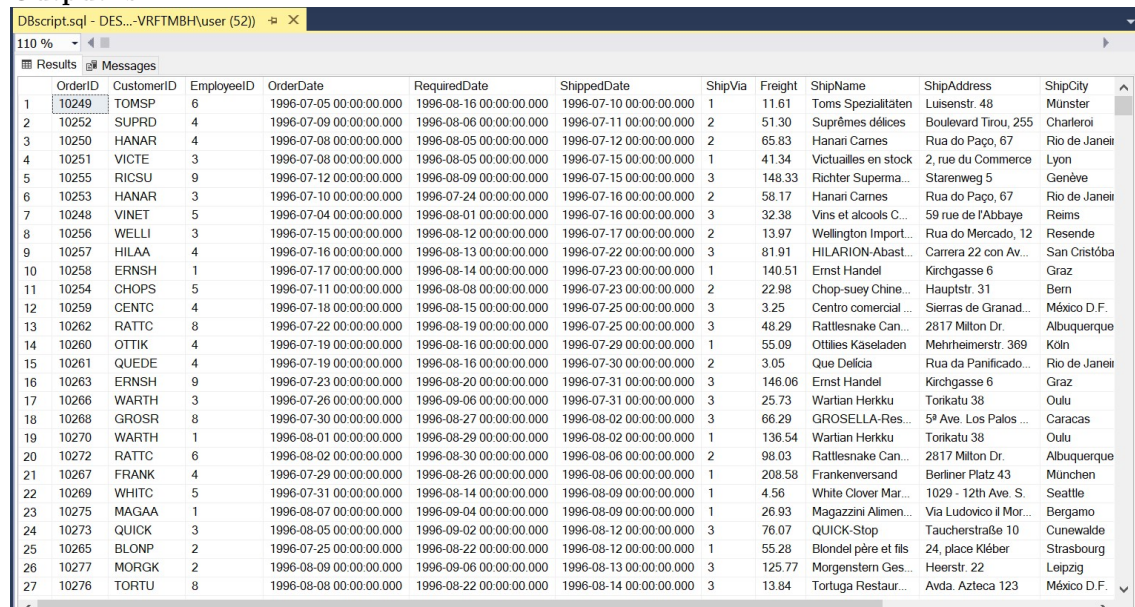


	ProductName
1	Uncle Bob's Organic Dried Pears
2	Northwoods Cranberry Sauce
3	Mishi Kobe Niku
4	Ikura
5	Queso Manchego La Pastora
6	Alice Mutton
7	Camaron von Tigers
8	Sir Rodney's Marmalade
9	Gumbar Gummibärchen
10	Schoggi Schokolade
11	Rössle Sauerkraut
12	Thüringer Rostbratwurst
13	Mascarpone Fabioli
14	Côte de Blaye
15	Iphoh Coffee
16	Manjimup Dried Apples
17	Perth Pasties
18	Gnocchi di nonna Alice
19	Radlette Courdavault
20	Camembert Pierrot
21	Tarte au sucre
22	Veggie-spread
23	Wimmers gute Semmelknödel
24	Gudbrandsdalsost
25	Mozzarella di Giovanni

1.2 Write a query to generate report showing date wise orders shipped.

```
SELECT *
FROM Orders
WHERE ShippedDate is NOT NULL
ORDER BY (ShippedDate)
```

Output is:

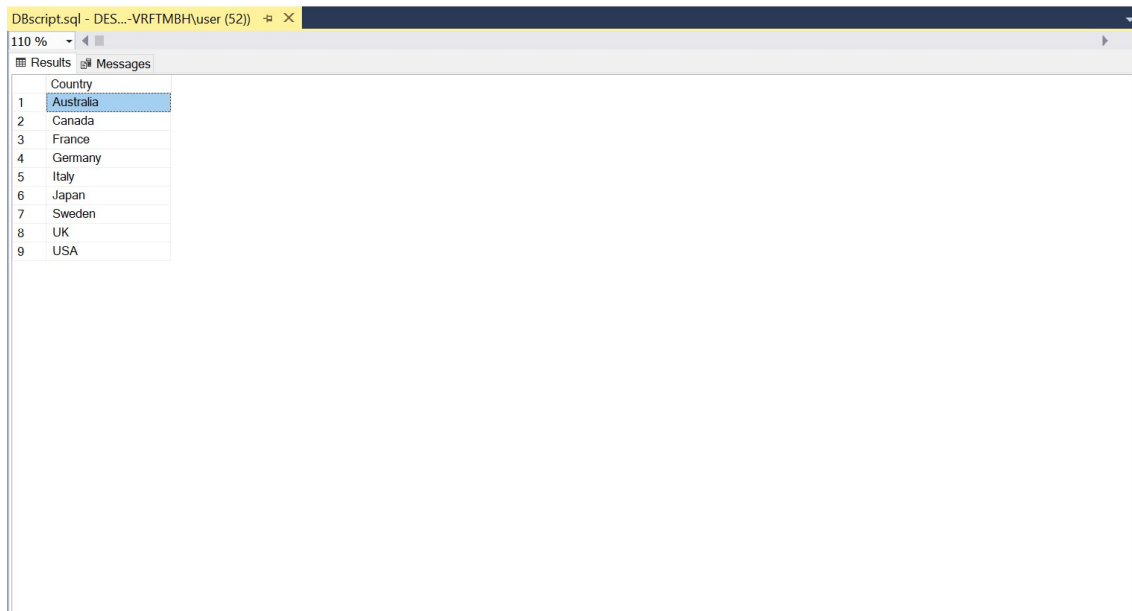


	OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress	ShipCity
1	10249	TOMSP	6	1996-07-05 00:00:00.000	1996-08-16 00:00:00.000	1996-07-10 00:00:00.000	1	11.61	Toms Spezialitäten	Luisenstr. 48	Münster
2	10252	SUPRD	4	1996-07-09 00:00:00.000	1996-08-06 00:00:00.000	1996-07-11 00:00:00.000	2	51.30	Suprêmes délicates	Boulevard Tirou, 255	Charleroi
3	10250	HANAR	4	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-12 00:00:00.000	2	65.83	Hanari Carnes	Rua do Paço, 67	Rio de Janeiro
4	10251	VICTE	3	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-15 00:00:00.000	1	41.34	Victualles en stock	2, rue du Commerce	Lyon
5	10255	RICSU	9	1996-07-12 00:00:00.000	1996-08-09 00:00:00.000	1996-07-15 00:00:00.000	3	148.33	Richter Superma...	Starenweg 5	Genève
6	10253	HANAR	3	1996-07-10 00:00:00.000	1996-07-24 00:00:00.000	1996-07-16 00:00:00.000	2	58.17	Hanari Carnes	Rua do Paço, 67	Rio de Janeiro
7	10248	VINET	5	1996-07-04 00:00:00.000	1996-08-01 00:00:00.000	1996-07-16 00:00:00.000	3	32.38	Vins et alcools C...	59 rue de l'Abbaye	Reims
8	10256	WELLI	3	1996-07-15 00:00:00.000	1996-08-12 00:00:00.000	1996-07-17 00:00:00.000	2	13.97	Wellington Import...	Rua do Mercado, 12	Resende
9	10257	HILAA	4	1996-07-16 00:00:00.000	1996-08-13 00:00:00.000	1996-07-22 00:00:00.000	3	81.91	HILARION-Abast...	Carrera 22 con Av...	San Cristóbal
10	10258	ERNSH	1	1996-07-17 00:00:00.000	1996-08-14 00:00:00.000	1996-07-23 00:00:00.000	1	140.51	Ernst Handel	Kirchgasse 6	Graz
11	10254	CHOPS	5	1996-07-11 00:00:00.000	1996-08-08 00:00:00.000	1996-07-23 00:00:00.000	2	22.98	Chop-suey Chine...	Hauptstr. 31	Bern
12	10259	CENTC	4	1996-07-18 00:00:00.000	1996-08-15 00:00:00.000	1996-07-25 00:00:00.000	3	3.25	Centro comercial...	Sierras de Granad...	México D.F.
13	10262	RATTC	8	1996-07-22 00:00:00.000	1996-08-19 00:00:00.000	1996-07-25 00:00:00.000	3	48.29	Rattlesnake Can...	2817 Milton Dr.	Albuquerque
14	10260	OTTIK	4	1996-07-19 00:00:00.000	1996-08-16 00:00:00.000	1996-07-29 00:00:00.000	1	55.09	Ottlies Kaseladen	Mehrheimerstr. 369	Köln
15	10261	QUEDE	4	1996-07-19 00:00:00.000	1996-08-16 00:00:00.000	1996-07-30 00:00:00.000	2	3.05	Que Delicia	Rua da Panificad...	Rio de Janeiro
16	10263	ERNSH	9	1996-07-23 00:00:00.000	1996-08-20 00:00:00.000	1996-07-31 00:00:00.000	3	146.06	Ernst Handel	Kirchgasse 6	Graz
17	10266	WARTH	3	1996-07-26 00:00:00.000	1996-09-06 00:00:00.000	1996-07-31 00:00:00.000	3	25.73	Wartian Herkku	Torikatu 38	Oulu
18	10268	GROSR	8	1996-07-30 00:00:00.000	1996-08-27 00:00:00.000	1996-08-02 00:00:00.000	3	66.29	GROSELLA-Res...	5ª Ave. Los Palos ...	Caracas
19	10270	WARTH	1	1996-08-01 00:00:00.000	1996-08-29 00:00:00.000	1996-08-02 00:00:00.000	1	136.54	Wartian Herkku	Torikatu 38	Oulu
20	10272	RATTC	6	1996-08-02 00:00:00.000	1996-08-30 00:00:00.000	1996-08-06 00:00:00.000	2	98.03	Rattlesnake Can...	2817 Milton Dr.	Albuquerque
21	10267	FRANK	4	1996-07-29 00:00:00.000	1996-08-26 00:00:00.000	1996-08-06 00:00:00.000	1	208.58	Frankenversand	Berliner Platz 43	München
22	10269	WHITC	5	1996-07-31 00:00:00.000	1996-08-14 00:00:00.000	1996-08-09 00:00:00.000	1	4.56	White Clover Mar...	1029 - 12th Ave. S.	Seattle
23	10275	MAGAA	1	1996-08-07 00:00:00.000	1996-09-04 00:00:00.000	1996-08-09 00:00:00.000	1	26.93	Magazzini Alimen...	Via Ludovico il Mor...	Bergamo
24	10273	QUICK	3	1996-08-05 00:00:00.000	1996-09-02 00:00:00.000	1996-08-12 00:00:00.000	3	76.07	QUICK-Stop	Taucherstraße 10	Cunewalde
25	10265	BLONP	2	1996-07-25 00:00:00.000	1996-08-02 00:00:00.000	1996-08-12 00:00:00.000	1	55.28	Blondel père et fils	24, place Kléber	Strasbourg
26	10277	MORGK	2	1996-08-09 00:00:00.000	1996-09-06 00:00:00.000	1996-08-13 00:00:00.000	3	125.77	Morgenstern Ges...	Heerstr. 22	Leipzig
27	10276	TORTU	8	1996-08-08 00:00:00.000	1996-08-22 00:00:00.000	1996-08-14 00:00:00.000	3	13.84	Tortuga Restaur...	Avda. Azteca 123	México D.F.

1.3 List name of all countries from where two or more suppliers belong to.

```
SELECT Country
FROM Suppliers
GROUP BY Country
HAVING COUNT(Country) > 1
```

Output is:

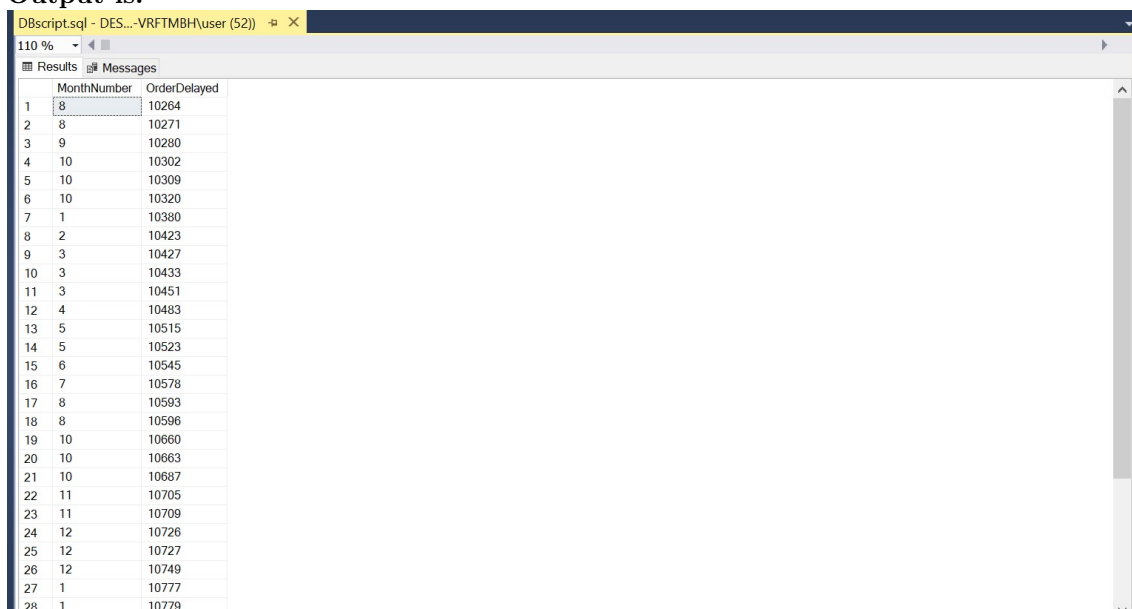


	Country
1	Australia
2	Canada
3	France
4	Germany
5	Italy
6	Japan
7	Sweden
8	UK
9	USA

1.4 Write a query to generate report showing month wise orders delayed shipped.

```
SELECT MONTH(ShippedDate) AS MonthNumber, OrderID AS OrderDelayed
FROM Orders
WHERE ShippedDate > RequiredDate
```

Output is:

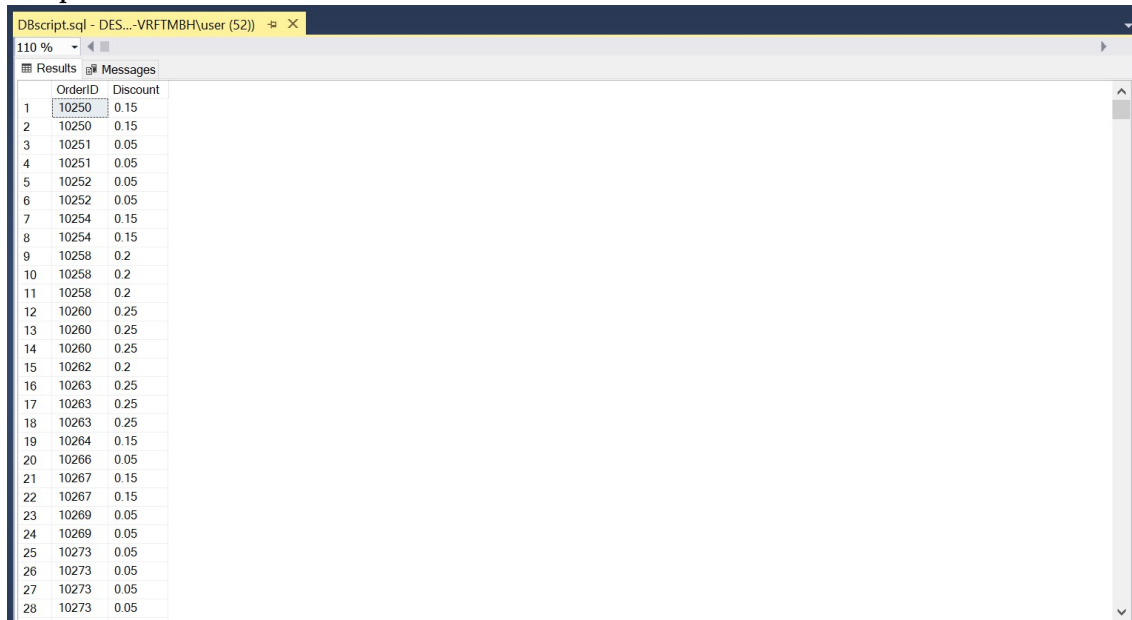


	MonthNumber	OrderDelayed
1	8	10264
2	8	10271
3	9	10280
4	10	10302
5	10	10309
6	10	10320
7	1	10380
8	2	10423
9	3	10427
10	3	10433
11	3	10451
12	4	10483
13	5	10515
14	5	10523
15	6	10545
16	7	10578
17	8	10593
18	8	10596
19	10	10660
20	10	10663
21	10	10687
22	11	10705
23	11	10709
24	12	10726
25	12	10727
26	12	10749
27	1	10777
28	1	10779

1.5 Report all the orders which have been discounted. Your result should show the total discount against each order.

```
SELECT OrderID,Discount
FROM [Order Details]
WHERE Discount > 0
```

Output is:



	OrderID	Discount
1	10250	0.15
2	10250	0.15
3	10251	0.05
4	10251	0.05
5	10252	0.05
6	10252	0.05
7	10254	0.15
8	10254	0.15
9	10258	0.2
10	10258	0.2
11	10258	0.2
12	10260	0.25
13	10260	0.25
14	10260	0.25
15	10262	0.2
16	10263	0.25
17	10263	0.25
18	10263	0.25
19	10264	0.15
20	10266	0.05
21	10267	0.15
22	10267	0.15
23	10269	0.05
24	10269	0.05
25	10273	0.05
26	10273	0.05
27	10273	0.05
28	10273	0.05

1.6 Write a query to list the number of orders which were shipped in the cities of USA in 1997. Show the number of order against each city.

```
SELECT COUNT(ORDERID) AS TotalOrders
FROM Orders
WHERE ShipCountry = 'USA' AND ((ShippedDate IS NOT NULL)
AND (YEAR(ShippedDate) = 1997))
```

```
SELECT ShipCity,COUNT(ShipCity) AS TotalOrders
FROM Orders
WHERE ShipCountry = 'USA' AND ((ShippedDate IS NOT NULL)
AND (YEAR(ShippedDate) = 1997))
GROUP BY ShipCity
```

Output is:

The screenshot shows a SQL query result in a window titled 'DBscript.sql - DES...-VRFTMBH\user (52)'. The window has tabs for 'Results' and 'Messages'. The 'Results' tab is active, displaying a table with two columns: 'ShipCity' and 'TotalOrders'. The table contains 12 rows of data, numbered 1 through 12 in the first column.

	ShipCity	TotalOrders
1	Albuquerque	6
2	Anchorage	4
3	Boise	19
4	Butte	2
5	Elgin	4
6	Eugene	6
7	Kirkland	2
8	Lander	2
9	Portland	4
10	San Francisco	3
11	Seattle	8
12	Walla Walla	2

1.7 Write a query to generate report showing country wise orders delayed shipped.

```
SELECT ShipCountry, OrderID AS OrdersDelayed
FROM Orders
WHERE ShippedDate > RequiredDate
```

Output is:

The screenshot shows a SQL query result in a window titled 'DBscript.sql - DES...-VRFTMBH\user (52)'. The window has tabs for 'Results' and 'Messages'. The 'Results' tab is active, displaying a table with two columns: 'ShipCountry' and 'OrdersDelayed'. The table contains 28 rows of data, numbered 1 through 28 in the first column.

	ShipCountry	OrdersDelayed
1	Sweden	10264
2	USA	10271
3	Sweden	10280
4	Belgium	10302
5	Ireland	10309
6	Finland	10320
7	Ireland	10380
8	Brazil	10423
9	Austria	10427
10	Portugal	10433
11	Germany	10451
12	USA	10483
13	Germany	10515
14	UK	10523
15	USA	10545
16	UK	10578
17	Germany	10593
18	USA	10596
19	USA	10660
20	France	10663
21	Ireland	10687
22	Venezuela	10705
23	Brazil	10709
24	UK	10726
25	Italy	10727
26	UK	10749
27	Brazil	10777
28	Germany	10779

1.8 Report all the orders which have been discounted with total price of order. Your result should show the total discount against each order.

```
SELECT OrderID,Discount,UnitPrice AS TotalPrice
FROM [Order Details]
WHERE Discount > 0
```

Output is:

	OrderID	Discount	TotalPrice
1	10250	0.15	42.40
2	10250	0.15	16.80
3	10251	0.05	16.80
4	10251	0.05	15.60
5	10252	0.05	64.80
6	10252	0.05	2.00
7	10254	0.15	3.60
8	10254	0.15	19.20
9	10258	0.2	15.20
10	10258	0.2	17.00
11	10258	0.2	25.60
12	10260	0.25	7.70
13	10260	0.25	39.40
14	10260	0.25	12.00
15	10262	0.2	17.00
16	10263	0.25	13.90
17	10263	0.25	20.70
18	10263	0.25	8.00
19	10264	0.15	7.70
20	10266	0.05	30.40
21	10267	0.15	44.00
22	10267	0.15	14.40
23	10269	0.05	2.00
24	10269	0.05	27.80
25	10273	0.05	24.80
26	10273	0.05	10.00
27	10273	0.05	14.70
28	10273	0.05	14.40

1.9 Write a query to list the number of orders which were shipped in the cities of each region in 1997. Show the number of order against each city.

```
SELECT ShipRegion,ShipCity,COUNT(ShipCity) AS Orders
FROM Orders
WHERE YEAR(ShippedDate) = 1997 AND ShipRegion IS NOT NULL
GROUP BY ShipRegion,ShipCity
```

Output is:

	ShipRegion	ShipCity	Orders
1	NM	Albuquerque	6
2	AK	Anchorage	4
3	Lara	Barquisime...	4
4	ID	Boise	19
5	MT	Butte	2
6	SP	Campinas	6
7	DF	Caracas	1
8	Essex	Colchester	6
9	Co. Cork	Cork	11
10	Isle of Wi...	Cowes	4
11	OR	Elgin	4
12	OR	Eugene	6
13	Nueva Es...	I. de Marga...	5
14	WA	Kirkland	2
15	WY	Lander	2
16	Québec	Montréal	10
17	OR	Portland	4
18	SP	Resende	3
19	RJ	Rio de Jan...	14
20	Táchira	San Cristó...	10
21	CA	San Franci...	3
22	SP	Sao Paulo	16
23	WA	Seattle	8
24	BC	Tsawassen	5
25	BC	Vancouver	2
26	WA	Walla Walla	2