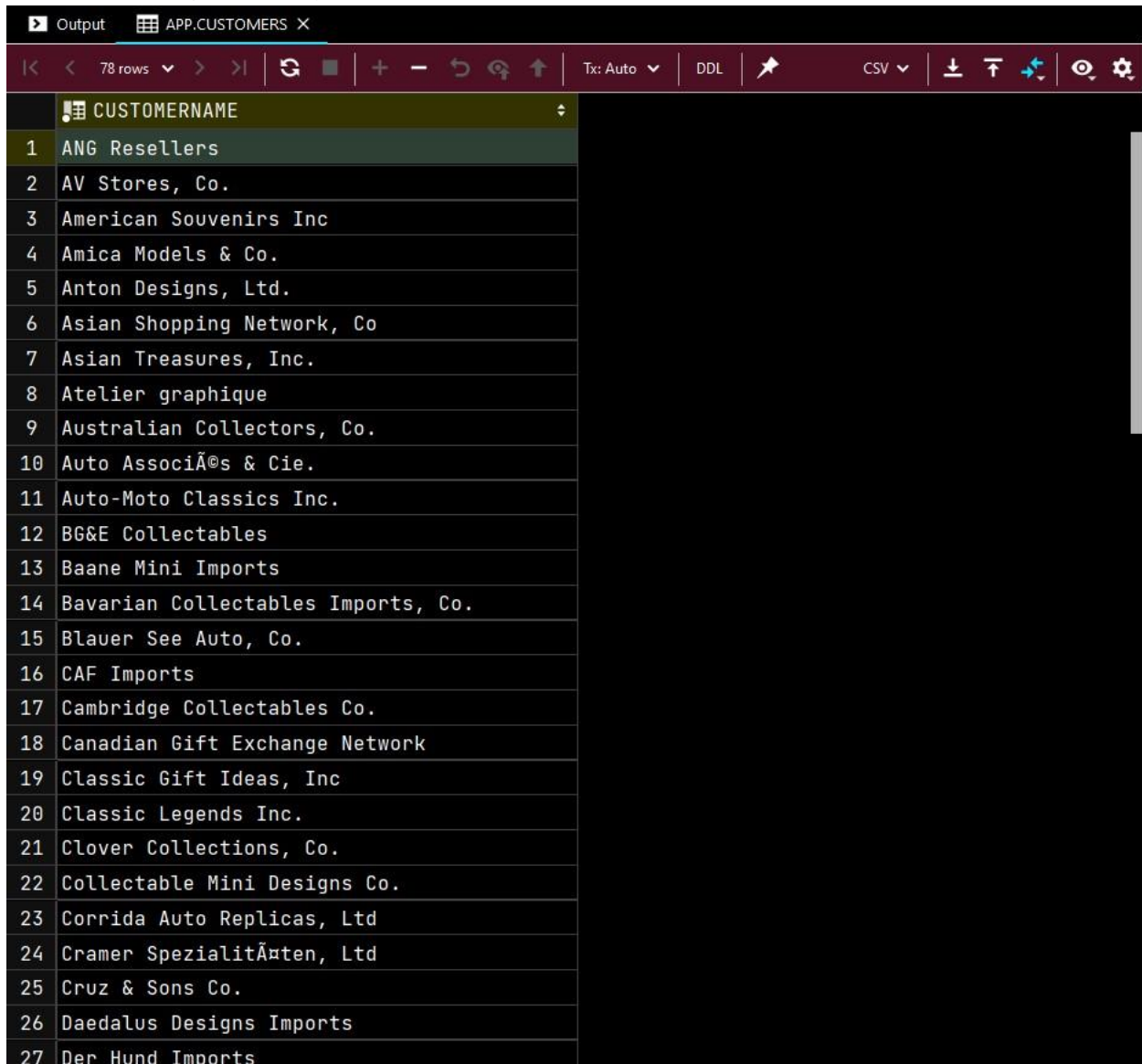


SQL Practice 37-43

37. List all customers who didn't order in 2015 (78)

```
SELECT CUSTOMERNAME FROM CUSTOMERS
EXCEPT
SELECT DISTINCT CUSTOMERNAME
FROM CUSTOMERS NATURAL JOIN ORDERS
WHERE YEAR(orderDate) = 2015;
```



	CUSTOMERNAME
1	ANG Resellers
2	AV Stores, Co.
3	American Souvenirs Inc
4	Amica Models & Co.
5	Anton Designs, Ltd.
6	Asian Shopping Network, Co
7	Asian Treasures, Inc.
8	Atelier graphique
9	Australian Collectors, Co.
10	Auto AssociÃ©s & Cie.
11	Auto-Moto Classics Inc.
12	BG&E Collectables
13	Baane Mini Imports
14	Bavarian Collectables Imports, Co.
15	Blauer See Auto, Co.
16	CAF Imports
17	Cambridge Collectables Co.
18	Canadian Gift Exchange Network
19	Classic Gift Ideas, Inc
20	Classic Legends Inc.
21	Clover Collections, Co.
22	Collectable Mini Designs Co.
23	Corrida Auto Replicas, Ltd
24	Cramer SpezialitÃ¤ten, Ltd
25	Cruz & Sons Co.
26	Daedalus Designs Imports
27	Der Hund Imports

38. List all people that we deal with (employees and customer contacts). Display contact first name, contact last name, company name for the customers. For the employees, display their first name, last name, and just the literal 'Employee' for the employees. Returns 145 rows.

```
SELECT 'EMPLOYEE' AS "COMPANY NAME", LASTNAME AS "LAST NAME", FIRSTNAME
AS
"FIRST NAME"
```

```

FROM EMPLOYEES
UNION
SELECT CUSTOMERNAME AS "COMPANY NAME", CONTACTLASTNAME AS "LAST
NAME",
CONTACTFIRSTNAME AS "FIRST NAME"
FROM CUSTOMERS;

```

	"COMPANY NAME"	"LAST NAME"	"FIRST NAME"
1	ANG Resellers	Camino	Alejandra
2	AV Stores, Co.	Ashworth	Rachel
3	Alpha Cognac	Roulet	Annette
4	American Souvenirs Inc	Franco	Keith
5	Amica Models & Co.	Accorti	Paolo
6	Anna's Decorations, Ltd	O'Hara	Anna
7	Anton Designs, Ltd.	Anton	Carmen
8	Asian Shopping Network, Co	Walker	Brydey
9	Asian Treasures, Inc.	McKenna	Patricia
10	Atelier graphique	Schmitt	Carine
11	Australian Collectables, Ltd	Clenahan	Sean
12	Australian Collectors, Co.	Ferguson	Peter
13	Australian Gift Network, Co	Calaghan	Ben
14	Auto AssociÃ©s & Cie.	Tonini	Daniel
15	Auto Canal+ Petit	Perrier	Dominique
16	Auto-Moto Classics Inc.	Taylor	Leslie
17	BG&E Collectables	Harrison	Ed
18	Baane Mini Imports	Bergulfsen	Jonas
19	Bavarian Collectables Imports, Co.	Donnermeyer	Michael
20	Blauer See Auto, Co.	Keitel	Roland
21	Boards & Toys Co.	Young	Mary
22	CAF Imports	Fernandez	Jesus
23	Cambridge Collectables Co.	Tseng	Jerry
24	Canadian Gift Exchange Network	Tamuri	Yoshi
25	Classic Gift Ideas, Inc	Cervantes	Francisca
26	Classic Legends Inc.	Hernandez	Maria
27	Clover Collections, Co.	Cassidy	Dean

39. List the last name, first name, and employee number of all of the employees who do not have any customers. Order by last name first, then the first name. (8).

```

SELECT LASTNAME, FIRSTNAME, EMPLOYEENUMBER
FROM EMPLOYEES
EXCEPT
SELECT DISTINCT LASTNAME, FIRSTNAME, EMPLOYEENUMBER FROM EMPLOYEES e
INNER JOIN CUSTOMERS c
ON e.EMPLOYEENUMBER = c.SALESREPEMPLYEENUMBER
ORDER BY LASTNAME, FIRSTNAME;

```

	LASTNAME	FIRSTNAME	EMPLOYEENUMBER
1	Bondur	Gerard	1102
2	Bow	Anthony	1143
3	Firrelli	Jeff	1076
4	Kato	Yoshimi	1625
5	King	Tom	1619
6	Murphy	Diane	1002
7	Patterson	Mary	1056
8	Patterson	William	1088

40. List the states and the country that the state is part of that have customers but not offices, offices but not customers, or both one or more customers and one or more offices all in one query. Designate which state is which with the string 'Customer', 'Office', or 'Both'. If a state falls into the "Both" category, do not list it as a Customer or an Office state. Order by the country, then the state. Give the category column (where you list 'Customer', 'Office', or 'Both') a header of "Category" and exclude any entries in which the state is null. (19)

```

SELECT DISTINCT STATE, COUNTRY, 'Customer' AS "Category" FROM CUSTOMERS
WHERE STATE IS NOT NULL
EXCEPT
SELECT DISTINCT STATE, COUNTRY, 'Customer' AS "Category" FROM OFFICES
UNION
SELECT DISTINCT STATE, COUNTRY, 'Office' AS "Category" FROM OFFICES
WHERE STATE IS NOT NULL
EXCEPT
SELECT DISTINCT STATE, COUNTRY, 'Office' AS "Category" FROM CUSTOMERS
UNION
SELECT DISTINCT STATE, COUNTRY, 'Both' AS "Category" FROM OFFICES
WHERE STATE IS NOT NULL
INTERSECT
SELECT DISTINCT STATE, COUNTRY, 'Both' AS "Category" FROM CUSTOMERS
WHERE STATE IS NOT NULL
ORDER BY COUNTRY, STATE;

```

	STATE	COUNTRY	"Category"
1	NSW	Australia	Customer
2	Queensland	Australia	Customer
3	Victoria	Australia	Customer
4	BC	Canada	Customer
5	QuÃ©bec	Canada	Customer
6	Co. Cork	Ireland	Customer
7	Chiyoda-Ku	Japan	Office
8	Osaka	Japan	Customer
9	Tokyo	Japan	Customer
10	Pretoria	South Africa	Customer
11	Isle of Wight	UK	Customer
12	CA	USA	Both
13	CT	USA	Customer
14	MA	USA	Both
15	NH	USA	Customer
16	NJ	USA	Customer
17	NV	USA	Customer
18	NY	USA	Both
19	PA	USA	Customer

41. List the Product Code and Product name of every product that has never been in an order in which the customer asked for more than 48 of them. Order by the Product Name. (8)

```

SELECT PRODUCTCODE, PRODUCTNAME FROM PRODUCTS p
EXCEPT
SELECT p.PRODUCTCODE, p.PRODUCTNAME FROM ORDERDETAILS o INNER JOIN
PRODUCTS p
ON o.productCode = p.productCode
WHERE quantityOrdered > 48
ORDER BY productName;

```

	PRODUCTCODE	PRODUCTNAME
1	S24_3420	1937 Horch 930V Limousine
2	S18_3782	1957 Vespa GS150
3	S12_3380	1968 Dodge Charger
4	S32_2206	1982 Ducati 996 R
5	S24_2972	1982 Lamborghini Diablo
6	S18_3233	1985 Toyota Supra
7	S12_1108	2001 Ferrari Enzo
8	S700_1691	American Airlines: B767-300

42. List the customer name of any customer who ordered any products from either of the two product lines 'Trains' or 'Trucks and Buses'. Do not use an "or". Instead perform a union. Order by the customer's name. (61)

```

SELECT c.CUSTOMERNAME FROM CUSTOMERS c INNER JOIN ORDERS o ON
c.CUSTOMERNUMBER
= o.CUSTOMERNUMBER
INNER JOIN ORDERDETAILS od ON o.ORDERNUMBER = od.ORDERNUMBER
INNER JOIN PRODUCTS p ON od.PRODUCTCODE = p.PRODUCTCODE
WHERE p.PRODUCTLINE = 'Trains'
UNION
SELECT c.CUSTOMERNAME FROM CUSTOMERS c INNER JOIN ORDERS o ON
c.CUSTOMERNUMBER
= o.CUSTOMERNUMBER
INNER JOIN ORDERDETAILS od ON o.ORDERNUMBER = od.ORDERNUMBER
INNER JOIN PRODUCTS p ON od.PRODUCTCODE = p.PRODUCTCODE
WHERE p.PRODUCTLINE = 'Trucks and Buses'
ORDER BY CUSTOMERNAME;

```

Output APP.CUSTOMERS X	
61 rows	
CUSTOMERNAME	
1	AV Stores, Co.
2	Amica Models & Co.
3	Anna's Decorations, Ltd
4	Australian Collectors, Co.
5	Australian Gift Network, Co
6	Auto AssociÃ@s & Cie.
7	Baane Mini Imports
8	Blauer See Auto, Co.
9	CAF Imports
10	Cambridge Collectables Co.
11	Canadian Gift Exchange Network
12	Classic Gift Ideas, Inc
13	Classic Legends Inc.
14	Clover Collections, Co.
15	Corporate Gift Ideas Co.
16	Corrida Auto Replicas, Ltd
17	Danish Wholesale Imports
18	Diecast Classics Inc.
19	Diecast Collectables
20	Down Under Souvenirs, Inc
21	Dragon Souvenirs, Ltd.
22	Euro+ Shopping Channel
23	Frau da Collezione
24	Gift Depot Inc.
25	Gifts4AllAges.com
26	GiftsForHim.com
27	Handji Gifts& Co

43. List the name of all customers who do not live in the same state and country with any other customer. Do not use a count for this exercise. Order by the customer name.

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This returns 17 if you convert the null states to something like 'N/A' and it returns 10 if you exclude all customers with no state value at all

```
SELECT CUSTOMERNAME FROM CUSTOMERS c1
WHERE NOT EXISTS
(SELECT STATE, COUNTRY FROM CUSTOMERS c2
WHERE COALESCE(c1.STATE, 'N/A') = COALESCE(c2.STATE, 'N/A')
AND c1.COUNTRY = c2.COUNTRY AND c1.CUSTOMERNUMBER !=
c2.CUSTOMERNUMBER)
ORDER BY CUSTOMERNAME;
```


CUSTOMERNAME	
1	Asian Treasures, Inc.
2	Australian Gift Network, Co
3	Clover Collections, Co.
4	Cruz & Sons Co.
5	Havel & Zbyszek Co
6	King Kong Collectables, Co.
7	Kremlin Collectables, Co.
8	Online Diecast Creations Co.
9	Osaka Souvenirs Co.
10	QuÃbec Home Shopping Network
11	Raanan Stores, Inc
12	SAR Distributors, Co
13	Schuyler Imports
14	Signal Gift Stores
15	Tekni Collectables Inc.
16	Tokyo Collectables, Ltd
17	giftsbymail.co.uk