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Practice SQL 54, 58-62

54) List the name of all the customers who have never made a payment on the same date as another customer. Order by customer name. (57)

```
SELECT c.customername FROM customers c
LEFT JOIN (
SELECT p1.customernumber AS customer_num1, p2.customernumber AS
customer_num2
FROM payments p1
JOIN payments p2 ON p1.paymentdate = p2.paymentdate AND
p1.customernumber != p2.customernumber
) AS p ON c.customernumber = p.customer_num1 WHERE p.customer_num2
IS NULL
ORDER BY c.customername;
```

Output:

1. American Souvenirs Inc
2. ANG Resellers
3. Anton Designs, Ltd.
4. Asian Shopping Network, Co
5. Asian Treasures, Inc.
6. Atelier graphique
7. Australian Collectors, Co.
8. Auto Associés & Cie.
9. Auto Canal+ Petit
10. Baane Mini Imports
11. Bavarian Collectables Imports, Co.
12. BG&E Collectables
13. Cambridge Collectables Co.
14. Canadian Gift Exchange Network
15. Classic Gift Ideas, Inc
16. Clover Collections, Co.
17. Corporate Gift Ideas Co.
18. Corrida Auto Replicas, Ltd

19. Cramer Spezialitäten, Ltd
20. Danish Wholesale Imports
21. Der Hund Imports
22. Down Under Souvenirs, Inc
23. Feuer Online Stores, Inc
24. Franken Gifts, Co
25. GiftsForHim.com
26. Havel & Zbyszek Co
27. Iberia Gift Imports, Corp.
28. Kommission Auto
29. Kremlin Collectables, Co.
30. La Corne D'abondance, Co.
31. Land of Toys Inc.
32. Lisboa Souvenirs, Inc
33. Lyon Souvenirs
34. Marseille Mini Autos
35. Messner Shopping Network
36. Microscale Inc.
37. Mit Vergnügen & Co.
38. Muscle Machine Inc
39. Natürlich Autos
40. Online Mini Collectables
41. Osaka Souvenirs Co.
42. Petit Auto
43. Porto Imports Co.
44. Precious Collectables
45. Raanan Stores, Inc
46. Royal Canadian Collectables, Ltd.
47. Royale Belge
48. SAR Distributors, Co
49. Scandinavian Gift Ideas
50. Schuyler Imports
51. Stuttgart Collectable Exchange
52. Stylish Desk Decors, Co.
53. Suominen Souvenirs
54. Tekni Collectables Inc.
55. UK Collectables, Ltd.

56. Vida Sport, Ltd

57. Warburg Exchange





58) List all pairs of employees that have the same last name. Make sure each combination is listed only once (5)

```
SELECT e1.firstname, e1.lastname, e2.firstname, e2.lastname
FROM employees e1 JOIN employees e2 on e1.lastname = e2.lastname
WHERE e1.employeenumber < e2.employeenumber
ORDER BY e1.lastname, e1.firstname, e2.firstname;
```

Output:

	<u>e1.firstname</u>	<u>e1.lastname</u>	<u>e2.firstname</u>	<u>e2.lastname</u>
1.	Gerard	Bondur	Loui	Bondur
2.	Jeff	Firrelli	Julie	Firrelli
3.	Mary	Patterson	Steve	Patterson
4.	Mary	Patterson	William	Patterson
5.	William	Patterson	Steve	Patterson

Output(Screenshot, just making sure):

	 e1.firstname	÷  e1.lastname	÷  e2.firstname	÷  e2.lastname	÷
1	Gerard	Bondur	Loui	Bondur	
2	Jeff	Firrelli	Julie	Firrelli	
3	Mary	Patterson	Steve	Patterson	
4	Mary	Patterson	William	Patterson	
5	William	Patterson	Steve	Patterson	

59) Select the name of each of two customers who have made at least one payment on the same date as the other. Make sure that each pair of customers only appears once. Order by the first customer name, then the second customer name. Returns 46 rows.

```
SELECT c1.customername, c2.customername FROM payments p1
JOIN payments p2 ON p1.paymentdate = p2.paymentdate AND
p1.customernumber < p2.customernumber
JOIN customers c1 ON p1.customernumber = c1.customernumber
```

```
JOIN customers c2 ON p2.customernumber = c2.customernumber
ORDER BY c1.customername, c2.customername;
```

Output:

1. Alpha Cognac Reims Collectables
2. Anna's Decorations, Ltd Signal Collectibles Ltd.
3. Australian Gift Network, Co Mini Auto Werke
4. Auto-Moto Classics Inc. Enaco Distributors
5. Auto-Moto Classics Inc. Gifts4AllAges.com
6. Blauer See Auto, Co. Boards & Toys Co.
7. Daedalus Designs Imports Alpha Cognac
8. Daedalus Designs Imports Collectable Mini Designs Co.
9. Diecast Classics Inc. Cruz & Sons Co.
10. Dragon Souvenirs, Ltd. Diecast Collectables
11. Euro+ Shopping Channel Gift Depot Inc.
12. Euro+ Shopping Channel Kelly's Gift Shop
13. Euro+ Shopping Channel King Kong Collectables, Co.
14. Euro+ Shopping Channel West Coast Collectables Co.
15. Extreme Desk Decorations, Ltd Motor Mint Distributors Inc.
16. Handji Gifts& Co Signal Collectibles Ltd.
17. Heintze Collectables Classic Legends Inc.
18. Herkku Gifts Amica Models & Co.
19. King Kong Collectables, Co. West Coast Collectables Co.
20. La Rochelle Gifts Technics Stores Inc.
21. Marta's Replicas Co. Norway Gifts By Mail, Co.
22. Mini Caravy Mini Auto Werke
23. Mini Caravy The Sharp Gifts Warehouse
24. Mini Caravy Tokyo Collectables, Ltd
25. Mini Creations Ltd. CAF Imports
26. Mini Gifts Distributors Ltd. Heintze Collectables
27. Mini Wheels Co. AV Stores, Co.
28. Mini Wheels Co. Volvo Model Replicas, Co
29. Norway Gifts By Mail, Co. Men 'R' US Retailers, Ltd.
30. Online Diecast Creations Co. Super Scale Inc.
31. Québec Home Shopping Network L'ordine Souvenirs
32. Rovelli Gifts CAF Imports

- 33. Rovelli Gifts Mini Creations Ltd.
 - 34. Salzburg Collectables FunGiftIdeas.com
 - 35. Saveley & Henriot, Co. Australian Collectables, Ltd
 - 36. Signal Gift Stores Gift Ideas Corp.
 - 37. Souvenirs And Things Co. Collectables For Less Inc.
 - 38. Technics Stores Inc. L'ordine Souvenirs
 - 39. Technics Stores Inc. Québec Home Shopping Network
 - 40. Tokyo Collectables, Ltd The Sharp Gifts Warehouse
 - 41. Toms Spezialitäten, Ltd Mini Classics
 - 42. Toms Spezialitäten, Ltd Mini Classics
 - 43. Toys of Finland, Co. Frau da Collezione
 - 44. Toys4GrownUps.com Double Decker Gift Stores, Ltd
 - 45. Vitachrome Inc. giftsbymail.co.uk
 - 46. Vitachrome Inc. Oulu Toy Supplies, Inc.
-

60) List the names, state and country of customers that share the same state and country. The country must be one of the following: UK, Australia, Italy, or Canada. Remember that not all countries have states at all, so you need to substitute a character sting like 'N/A' for the state in those cases so that you can compare the states. (15)

```
SELECT c1.customername, COALESCE(c1.state, '<null>') AS state,
c1.country
FROM customers c1 JOIN customers c2
ON COALESCE(c1.state, '<null>') = COALESCE(c2.state, '<null>')
AND c1.country = c2.country AND c1.customernumber <
c2.customernumber
WHERE c1.country IN ('UK', 'Australia', 'Italy', 'Canada');
```

Output:

- 1. "AV Stores, Co.",<null>,UK
- 2. Canadian Gift Exchange Network,BC,Canada
- 3. Amica Models & Co.,<null>,Italy
- 4. "Anna's Decorations, Ltd",NSW,Australia
- 5. "UK Collectables, Ltd.",<null>,UK
- 6. "AV Stores, Co.",<null>,UK
- 7. Rovelli Gifts,<null>,Italy

8. Amica Models & Co.,<null>,Italy
 9. "Australian Collectors, Co.",Victoria,Australia
 10. L'ordine Souvenirs,<null>,Italy
 11. Rovelli Gifts,<null>,Italy
 12. Amica Models & Co.,<null>,Italy
 13. "Stylish Desk Decors, Co.",<null>,UK
 14. "UK Collectables, Ltd.",<null>,UK
 15. "AV Stores, Co.",<null>,UK
-

61) List the names of all of the customer pairs who have the same sales representative as some other customer, and either customer name has 'Australian' in it. List each of the customers sharing a sales representative, and the name of the sales representative. Order by the name of the first customer, then the second. Do not show any combination more than once. (9)

```
SELECT c1.customername AS Customer1, c2.customername AS Customer2,
CONCAT(firstname, ' ', lastname) AS Salesrep
FROM customers c1 JOIN customers c2 ON c1.salesrepemployeenumber =
c2.salesrepemployeenumber
AND c1.customernumber < c2.customernumber
JOIN employees e on c1.salesrepemployeenumber = e.employeenumber
WHERE (c1.customername LIKE '%Australian%' OR c2.customername LIKE
'%Australian%')
AND e.jobtitle = 'Sales Rep'
ORDER BY c1.customername, c2.customername;
```

Output:

1. "Anna's Decorations, Ltd","Australian Collectables, Ltd",Andy Fixter
2. "Anna's Decorations, Ltd","Australian Gift Network, Co",Andy Fixter
3. "Australian Collectors, Co.", "Anna's Decorations, Ltd",Andy Fixter
4. "Australian Collectors, Co.", "Australian Collectables, Ltd",Andy Fixter
5. "Australian Collectors, Co.", "Australian Gift Network, Co",Andy Fixter
6. "Australian Collectors, Co.",Souvenirs And Things Co.,Andy Fixter
7. "Australian Gift Network, Co", "Australian Collectables, Ltd",Andy Fixter
8. Souvenirs And Things Co., "Australian Collectables, Ltd",Andy Fixter
9. Souvenirs And Things Co., "Australian Gift Network, Co",Andy Fixter

62) List the names of all pairs of employees who have the same manager. List the first and last name of each employee, the first and last name of their manager. Order by the last name of the manager, the first name of the manager, the last name of the first employee the first name of the first employee, the last name of the second employee and the first name of the second employee. Be sure that each pair of employees shows up in the output only once. (40)

```
SELECT m.firstname AS Manager_FirstName, m.lastname AS
Manager_LastName,
e1.firstname AS Employee1_FirstName, e1.lastname AS
Employee1_LastName,
e2.firstname AS Employee2_FirstName, e2.lastname AS
Employee2_LastName FROM employees e1
JOIN employees e2 ON e1.reportsto = e2.reportsto AND
e1.employeeenumber < e2.employeeenumber
JOIN employees m ON e1.reportsto = m.employeeenumber
ORDER BY m.lastname, m.firstname, e1.lastname, e1.firstname,
e2.lastname, e2.firstName;
```

Output:

1. Gerard,Bondur,Loui,Bondur,Larry,Bott
2. Gerard,Bondur,Loui,Bondur,Pamela,Castillo
3. Gerard,Bondur,Loui,Bondur,Martin,Gerard
4. Gerard,Bondur,Loui,Bondur,Gerard,Hernandez
5. Gerard,Bondur,Loui,Bondur,Barry,Jones
6. Gerard,Bondur,Larry,Bott,Martin,Gerard
7. Gerard,Bondur,Larry,Bott,Barry,Jones
8. Gerard,Bondur,Pamela,Castillo,Larry,Bott
9. Gerard,Bondur,Pamela,Castillo,Martin,Gerard
10. Gerard,Bondur,Pamela,Castillo,Barry,Jones
11. Gerard,Bondur,Gerard,Hernandez,Larry,Bott
12. Gerard,Bondur,Gerard,Hernandez,Pamela,Castillo
13. Gerard,Bondur,Gerard,Hernandez,Martin,Gerard
14. Gerard,Bondur,Gerard,Hernandez,Barry,Jones
15. Gerard,Bondur,Barry,Jones,Martin,Gerard

16. Anthony,Bow,Julie,Firrelli,Steve,Patterson
17. Anthony,Bow,Julie,Firrelli,Foon Yue,Tseng
18. Anthony,Bow,Julie,Firrelli,George,Vanauf
19. Anthony,Bow,Leslie,Jennings,Julie,Firrelli
20. Anthony,Bow,Leslie,Jennings,Steve,Patterson
21. Anthony,Bow,Leslie,Jennings,Leslie,Thompson
22. Anthony,Bow,Leslie,Jennings,Foon Yue,Tseng
23. Anthony,Bow,Leslie,Jennings,George,Vanauf
24. Anthony,Bow,Steve,Patterson,Foon Yue,Tseng
25. Anthony,Bow,Steve,Patterson,George,Vanauf
26. Anthony,Bow,Leslie,Thompson,Julie,Firrelli
27. Anthony,Bow,Leslie,Thompson,Steve,Patterson
28. Anthony,Bow,Leslie,Thompson,Foon Yue,Tseng
29. Anthony,Bow,Leslie,Thompson,George,Vanauf
30. Anthony,Bow,Foon Yue,Tseng,George,Vanauf
31. Diane,Murphy,Mary,Patterson,Jeff,Firrelli
32. Mary,Patterson,Gerard,Bondur,Anthony,Bow
33. Mary,Patterson,Gerard,Bondur,Mami,Nishi
34. Mary,Patterson,Anthony,Bow,Mami,Nishi
35. Mary,Patterson,William,Patterson,Gerard,Bondur
36. Mary,Patterson,William,Patterson,Anthony,Bow
37. Mary,Patterson,William,Patterson,Mami,Nishi
38. William,Patterson,Andy,Fixter,Tom,King
39. William,Patterson,Andy,Fixter,Peter,Marsh
40. William,Patterson,Peter,Marsh,Tom,King