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Prof. Brown

Practice SQL (37-40, 42, 43)

37) List the name of all customers who didn't order in 2015 (78). Order by customer name.

```
SELECT c.customername FROM customers c

EXCEPT SELECT c.customername FROM customers c

JOIN Orders o ON c.customernumber = o.customernumber

WHERE EXTRACT(YEAR FROM o.orderDate) = 2015

ORDER BY customername;
```

- 1. American Souvenirs Inc
- 2. Amica Models & Co.
- 3. ANG Resellers
- 4. "Anton Designs, Ltd."
- 5. "Asian Shopping Network, Co"
- 6. "Asian Treasures, Inc."
- 7. Atelier graphique
- 8. "Australian Collectors, Co."
- 9. Auto-Moto Classics Inc.
- 10. Auto Associés & Cie.
- 11. "AV Stores, Co."
- 12. Baane Mini Imports
- 13. "Bavarian Collectables Imports, Co."
- 14. BG&E Collectables
- 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 Spezialitäten, Ltd"
- 25. Cruz & Sons Co.

- 26. Daedalus Designs Imports
- 27. Der Hund Imports
- 28. Diecast Collectables
- 29. "Double Decker Gift Stores, Ltd"
- 30. Enaco Distributors
- 31. "Feuer Online Stores, Inc"
- 32. "Franken Gifts, Co"
- 33. Frau da Collezione
- 34. Gift Ideas Corp.
- 35. giftsbymail.co.uk
- 36. Havel & Zbyszek Co
- 37. Heintze Collectables
- 38. Herkku Gifts
- 39. "Iberia Gift Imports, Corp."
- 40. "King Kong Collectables, Co."
- 41. Kommission Auto
- 42. "Kremlin Collectables, Co."
- 43. "La Corne D'abondance. Co."
- 44. Land of Toys Inc.
- 45. "Lisboa Souveniers, Inc"
- 46. Marta's Replicas Co.
- 47. "Men 'R' US Retailers, Ltd."
- 48. Messner Shopping Network
- 49. Microscale Inc.
- 50. Mini Classics
- 51. Mini Wheels Co.
- 52. Mit Vergnügen & Co.
- 53. Motor Mint Distributors Inc.
- 54. Muscle Machine Inc.
- 55. Natürlich Autos
- 56. "Norway Gifts By Mail, Co."
- 57. Online Diecast Creations Co.
- 58. Online Mini Collectables
- 59. Osaka Souveniers Co.
- 60. Porto Imports Co.
- 61. Precious Collectables
- 62. "Raanan Stores, Inc"

- 63. Rovelli Gifts
- 64. "Royal Canadian Collectables, Ltd."
- 65. "SAR Distributors, Co"
- 66. "Saveley & Henriot, Co."
- 67. Schuyler Imports
- 68. Signal Collectibles Ltd.
- 69. Signal Gift Stores
- 70. Stuttgart Collectable Exchange
- 71. "Stylish Desk Decors, Co."
- 72. Super Scale Inc.
- 73. "Toms Spezialitäten, Ltd"
- 74. "Vida Sport, Ltd"
- 75. Vitachrome Inc.
- 76. "Volvo Model Replicas, Co"
- 77. Warburg Exchange
- 78. West Coast Collectables Co.

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 contactfirstname AS first_name, contactlastname AS last_name,
customername AS company_name

FROM customers UNION ALL

SELECT firstname AS first_name, lastname AS last_name, 'Employee' AS
company_name

FROM employees

ORDER BY first_name, last_name, company_name;
```

- 1. Adrian, Huxley, Souveniers And Things Co.
- 2. Akiko, Shimamura, "Tokyo Collectables, Ltd"
- 3. Alejandra , Camino, ANG Resellers
- 4. Alexander ,Feuer,"Feuer Online Stores, Inc"
- 5. Alexander ,Semenov, "Kremlin Collectables, Co."
- 6. Allen, Nelson, Collectables For Less Inc.
- 7. Andy, Fixter, Employee
- 8. Ann ,Brown,"Stylish Desk Decors, Co."

- 9. Anna, O'Hara, "Anna's Decorations, Ltd"
- 10. Annette ,Roulet,Alpha Cognac
- 11. Anthony, Bow, Employee
- 12. Armand, Kuger, "SAR Distributors, Co"
- 13. Arnold, Cruz, Cruz & Sons Co.
- 14. Barry, Jones, Employee
- 15. Ben, Calaghan, "Australian Gift Network, Co"
- 16. Bradley, Schuyler, Schuyler Imports
- 17. Braun, Urs, Precious Collectables
- 18. Brian, Chandler, "Men 'R' US Retailers, Ltd."
- 19. Brydey, Walker, "Asian Shopping Network, Co"
- 20. Carine ,Schmitt,Atelier graphique
- 21. Carmen, Anton, "Anton Designs, Ltd."
- 22. Catherine ,Dewey,Petit Auto
- 23. Christina ,Berglund,"Volvo Model Replicas, Co"
- 24. Dan, Lewis, Gift Ideas Corp.
- 25. Daniel, Da Silva, Lyon Souveniers
- 26. Daniel ,Tonini,Auto Associés & Cie.
- 27. Dean, Cassidy, "Clover Collections, Co."
- 28. Diane, Murphy, Employee
- 29. Diego ,Freyre,Euro+ Shopping Channel
- 30. Dominique, Perrier, Auto Canal+ Petit
- 31. Dorothy, Young, Online Diecast Creations Co.
- 32. Ed, Harrison, BG&E Collectables
- 33. Eduardo ,Saavedra,Enaco Distributors
- 34. Elizabeth, Devon, "UK Collectables, Ltd."
- 35. Elizabeth ,Lincoln, "Royal Canadian Collectables, Ltd."
- 36. Eric, Natividad, "Dragon Souveniers, Ltd."
- 37. Foon Yue, Tseng, Employee
- 38. Francisca, Cervantes, "Classic Gift Ideas, Inc"
- 39. Franco, Ricotti, Frau da Collezione
- 40. Frédérique ,Citeaux,Mini Caravy
- 41. Georg ,Pipps,Salzburg Collectables
- 42. George, Vanauf, Employee
- 43. Gerard, Bondur, Employee
- 44. Gerard, Hernandez, Employee
- 45. Giovanni ,Rovelli,Rovelli Gifts

- 46. Hanna ,Moos,Mit Vergnügen & Co.
- 47. Helen ,Bennett,giftsbymail.co.uk
- 48. Henriette ,Pfalzheim,"Toms Spezialitäten, Ltd"
- 49. Horst ,Kloss,Natürlich Autos
- 50. Isabel ,de Castro,Porto Imports Co.
- 51. Jan, Klaeboe, "Norway Gifts By Mail, Co."
- 52. Janine ,Labrune,La Rochelle Gifts
- 53. Jean, King, Signal Gift Stores
- 54. Jean ,Fresnière,Québec Home Shopping Network
- 55. Jeff, Firrelli, Employee
- 56. Jeff, Young, Muscle Machine Inc
- 57. Jerry, Tseng, Cambridge Collectables Co.
- 58. Jesus, Fernandez, CAF Imports
- 59. Jonas ,Bergulfsen,Baane Mini Imports
- 60. José Pedro ,Roel,"Iberia Gift Imports, Corp."
- 61. Julie, Brown, Corporate Gift Ideas Co.
- 62. Julie, Firrelli, Employee
- 63. Julie, King, Gift Depot Inc.
- 64. Julie, Murphy, Mini Wheels Co.
- 65. Julie, Young, Toys 4 Grown Ups.com
- 66. Juri, Hashimoto, Technics Stores Inc.
- 67. Juri, Yoshido, Gifts 4 All Ages.com
- 68. Jytte ,Petersen,Danish Wholesale Imports
- 69. Kalle, Suominen, Suominen Souveniers
- 70. Karin, Josephs, Kommission Auto
- 71. Keith, Franco, American Souvenirs Inc.
- 72. Kelvin, Leong, Diecast Classics Inc.
- 73. Kwai, Lee, Land of Toys Inc.
- 74. Larry, Bott, Employee
- 75. Laurence ,Lebihan,Marseille Mini Autos
- 76. Leslie, Jennings, Employee
- 77. Leslie, Murphy, Super Scale Inc.
- 78. Leslie, Taylor, Auto-Moto Classics Inc.
- 79. Leslie, Thompson, Employee
- 80. Lino ,Rodriguez,"Lisboa Souveniers, Inc"
- 81. Loui, Bondur, Employee
- 82. Mami, Nishi, Employee

- 83. Maria, Hernandez, Classic Legends Inc.
- 84. Marie, Bertrand, "La Corne D'abondance, Co."
- 85. Marta, Hernandez, Marta's Replicas Co.
- 86. Martha, Larsson, Scandinavian Gift Ideas
- 87. Martin, Gerard, Employee
- 88. Martín ,Sommer, "Corrida Auto Replicas, Ltd"
- 89. Martine ,Rancé,Daedalus Designs Imports
- 90. Mary, Patterson, Employee
- 91. Mary, Young, Boards & Toys Co.
- 92. Mary ,Saveley, "Saveley & Henriot, Co."
- 93. Matti, Karttunen, "Toys of Finland, Co."
- 94. Maurizio ,Moroni,L'ordine Souveniers
- 95. Mel, Andersen, Der Hund Imports
- 96. Michael, Donnermeyer, "Bavarian Collectables Imports, Co."
- 97. Michael, Frick, Vitachrome Inc.
- 98. Miguel, Barajas, Online Mini Collectables
- 99. Mihael, Holz, "Vida Sport, Ltd"
- 100. Mike, Gao, "King Kong Collectables, Co."
- 101. Mike, Graham, "Down Under Souveniers, Inc"
- 102. Mory, Kentary, Osaka Souveniers Co.
- 103. Palle, Ibsen, Heintze Collectables
- 104. Pamela, Castillo, Employee
- 105. Paolo ,Accorti,Amica Models & Co.
- 106. Pascale ,Cartrain,Royale Belge
- 107. Patricia ,McKenna,"Asian Treasures, Inc."
- 108. Paul ,Henriot,Reims Collectables
- 109. Peter, Ferguson, "Australian Collectors, Co."
- 110. Peter, Marsh, Employee
- 111. Peter ,Franken,"Franken Gifts, Co"
- 112. Philip ,Cramer,"Cramer Spezialitäten, Ltd"
- 113. Pirkko, Koskitalo, "Oulu Toy Supplies, Inc."
- 114. Raanan, "Altagar, G M", "Raanan Stores, Inc"
- 115. Rachel, Ashworth, "AV Stores, Co."
- 116. Renate ,Messner,Messner Shopping Network
- 117. Rita ,Müller,Stuttgart Collectable Exchange
- 118. Roland, Keitel, "Blauer See Auto, Co."
- 119. Roland ,Mendel,Mini Auto Werke

- 120. Rosa, Salazar, Motor Mint Distributors Inc.
- 121. Sarah, McRoy, "Extreme Desk Decorations, Ltd"
- 122. Sean, Clenahan, "Australian Collectables, Ltd"
- 123. Steve, Frick, Mini Classics
- 124. Steve, Patterson, Employee
- 125. Steve, Thompson, West Coast Collectables Co.
- 126. Sue, Frick, The Sharp Gifts Warehouse
- 127. Sue, Taylor, Signal Collectibles Ltd.
- 128. Susan, Nelson, Mini Gifts Distributors Ltd.
- 129. Sven ,Ottlieb,Warburg Exchange
- 130. Thomas ,Smith,"Double Decker Gift Stores, Ltd"
- 131. Tom, King, Employee
- 132. Tony, Snowden, Kelly's Gift Shop
- 133. Valarie, Franco, Diecast Collectables
- 134. Valarie, Thompson, Collectable Mini Designs Co.
- 135. Veysel, Oeztan, Herkku Gifts
- 136. Violeta, Benitez, Fun Gift Ideas.com
- 137. Wales, MacKinlay, Gifts For Him.com
- 138. Wendy, Victorino, Handji Gifts & Co
- 139. William, Brown, Tekni Collectables Inc.
- 140. William, Patterson, Employee
- 141. Wing, Huang, Mini Creations Ltd.
- 142. Yoshi ,Tamuri,Canadian Gift Exchange Network
- 143. Yoshimi, Kato, Employee
- 144. Yu, Choi, Microscale Inc.
- 145. Zbyszek ,Piestrzeniewicz,Havel & Zbyszek Co

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

```
SELECT e.lastname, e.firstname, e.employeenumber FROM employees e

EXCEPT

SELECT e.lastname, e.firstname, e.employeenumber FROM employees e

JOIN customers c ON e.employeenumber = c.salesrepemployeenumber

ORDER BY lastname, firstname;
```

- 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 state, country, 'Customer' AS Category FROM customers
WHERE state IS NOT NULL AND state NOT IN (SELECT state FROM offices WHERE
state IS NOT NULL)
UNION
SELECT state, country, 'Office' AS Category FROM offices
WHERE state IS NOT NULL AND state NOT IN (SELECT state FROM customers WHERE
state IS NOT NULL)
UNION
SELECT c.state, c.country, 'Both' AS Category FROM customers c
JOIN offices o ON c.state = o.state AND c.country = o.country WHERE c.state
IS NOT NULL
ORDER BY country, state;
```

- 1. NSW Australia Customer
- 2. Queensland Australia Customer
- 3. Victoria Australia Customer
- 4. BC Canada Customer
- 5. Québec 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

42) List the customer's 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
```

- 1. Amica Models & Co.
- 2. Anna's Decorations, Ltd
- 3. Australian Collectors, Co.
- 4. Australian Gift Network, Co
- 5. Auto Associés & Cie.
- 6. AV Stores, Co.
- 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 Souveniers, Inc
- 21. Dragon Souveniers, Ltd.
- 22. Euro+ Shopping Channel
- 23. Frau da Collezione
- 24. Gift Depot Inc.
- 25. Gifts4AllAges.com
- 26. giftsbymail.co.uk
- 27. GiftsForHim.com
- 28. Handji Gifts& Co
- 29. Heintze Collectables
- 30. Iberia Gift Imports, Corp.
- 31. Kelly's Gift Shop
- 32. L'ordine Souveniers
- 33. La Corne D'abondance, Co.
- 34. La Rochelle Gifts
- 35. Land of Toys Inc.
- 36. Lyon Souveniers
- 37. Marta's Replicas Co.
- 38. Mini Auto Werke
- 39. Mini Classics
- 40. Mini Creations Ltd.
- 41. Mini Gifts Distributors Ltd.
- 42. Mini Wheels Co.
- 43. Muscle Machine Inc
- 44. Online Diecast Creations Co.
- 45. Oulu Toy Supplies, Inc.

- 46. Petit Auto
- 47. Québec Home Shopping Network
- 48. Reims Collectables
- 49. Royale Belge
- 50. Saveley & Henriot, Co.
- 51. Scandinavian Gift Ideas
- 52. Signal Collectibles Ltd.
- 53. Souveniers And Things Co.
- 54. Stylish Desk Decors, Co.
- 55. Suominen Souveniers
- 56. Super Scale Inc.
- 57. Technics Stores Inc.
- 58. Tokyo Collectables, Ltd
- 59. Vitachrome Inc.
- 60. Volvo Model Replicas, Co
- 61. West Coast Collectables Co.

43) List the name of all customers, their state, and country 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. This returns 18 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.

(I choose to exclude all customers with no state value at all)

```
SELECT c1.customername, c1.state, c1.country FROM customers c1

WHERE c1.state IS NOT NULL

EXCEPT

SELECT c1.customername, c1.state, c1.country FROM customers c1

JOIN customers c2 ON c1.state = c2.state AND c1.country = c2.country AND

c1.customernumber <> c2.customernumber

WHERE c1.state IS NOT NULL

ORDER BY customername;
```

- 1. Asian Treasures, Inc. Co. Cork Ireland
- 2. Australian Gift Network, Co Queensland Australia
- 3. giftsbymail.co.uk Isle of Wight UK
- 4. Online Diecast Creations Co. NH USA

5. Osaka Souveniers Co. Osaka Japan

6. Québec Home Shopping Network Québec Canada

7. SAR Distributors, Co Pretoria South Africa

8. Signal Gift Stores NV USA

9. Tekni Collectables Inc. NJ USA

10. Tokyo Collectables, Ltd Tokyo Japan