

Jae Bum Jang

Prof. Brown

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Practice SQL (18-24)

18. Display the order number, order date, status, quantity ordered, price each, and product name for every item within every order for order numbers 10270, 10272, 10279 (23)

```
--#18

SELECT o.ordernumber, o.orderdate, o.status,
       od.quantityordered, od.priceeach, p.productname FROM orders o
INNER JOIN orderdetails od ON o.ordernumber = od.ordernumber
INNER JOIN products p ON p.productcode = od.productcode
WHERE o.ordernumber IN (10270, 10272, 10279) ;
```

Output:

1.	10270	2014-07-19	Shipped	21	171.44	1952 Alpine Renault 1300
2.	10270	2014-07-19	Shipped	32	124.10	1962 LanciaA Delta 16V
3.	10270	2014-07-19	Shipped	28	135.30	1958 Setra Bus
4.	10270	2014-07-19	Shipped	43	94.50	1940 Ford Pickup Truck
5.	10270	2014-07-19	Shipped	31	81.05	1913 Ford Model T Speedster
6.	10270	2014-07-19	Shipped	38	85.87	18th Century Vintage Horse Carriage
7.	10270	2014-07-19	Shipped	38	107.76	1940s Ford truck
8.	10270	2014-07-19	Shipped	44	40.25	1939 Cadillac Limousine
9.	10270	2014-07-19	Shipped	32	93.42	1980's GM Manhattan Express

10.	10270	2014-07-19	Shipped	21	52.36	1996 Peterbilt 379 Stake Bed with Outrigger
11.	10270	2014-07-19	Shipped	46	101.15	1982 Camaro Z28
12.	10272	2014-07-20	Shipped	35	187.02	2001 Ferrari Enzo
13.	10272	2014-07-20	Shipped	27	123.89	1969 Corvair Monza
14.	10272	2014-07-20	Shipped	39	148.80	1969 Ford Falcon
15.	10272	2014-07-20	Shipped	25	126.39	1970 Triumph Spitfire
16.	10272	2014-07-20	Shipped	45	56.55	1950's Chicago Surface Lines Streetcar
17.	10272	2014-07-20	Shipped	43	53.89	1962 City of Detroit Streetcar
18.	10279	2014-08-09	Shipped	26	68.42	1957 Ford Thunderbird
19.	10279	2014-08-09	Shipped	32	68.35	1970 Chevy Chevelle SS 454
20.	10279	2014-08-09	Shipped	49	76.33	1949 Jaguar XK 120
21.	10279	2014-08-09	Shipped	48	106.87	1952 Citroen-15CV
22.	10279	2014-08-09	Shipped	33	78.76	1969 Chevrolet Camaro Z28
23.	10279	2014-08-09	Shipped	48	95.30	2002 Chevy Corvette

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19. List the product lines, the first 50 characters of the product line's text description and vendors that supply the products in that product line ordered by product Line and product Vendor (65)

```
-- #19
SELECT DISTINCT p.productline, substr(pl.textdescription, 1,
50), p.productvendor
FROM productlines pl inner join products p on pl.productline =
p.productline
ORDER BY p.productline, p.productvendor;
```

Output:

1. Classic Cars    Attention car enthusiasts: Make your wildest car o    Autoart Studio  
Design
2. Classic Cars    Attention car enthusiasts: Make your wildest car o    Carousel DieCast  
Legends
3. Classic Cars    Attention car enthusiasts: Make your wildest car o    Classic Metal  
Creations
4. Classic Cars    Attention car enthusiasts: Make your wildest car o    Exoto Designs
5. Classic Cars    Attention car enthusiasts: Make your wildest car o    Gearbox  
Collectibles
6. Classic Cars    Attention car enthusiasts: Make your wildest car o    Highway 66 Mini  
Classics
7. Classic Cars    Attention car enthusiasts: Make your wildest car o    Min Lin Diecast
8. Classic Cars    Attention car enthusiasts: Make your wildest car o    Motor City Art  
Classics
9. Classic Cars    Attention car enthusiasts: Make your wildest car o    Red Start Diecast
10. Classic Cars    Attention car enthusiasts: Make your wildest car o    Second Gear  
Diecast
11. Classic Cars    Attention car enthusiasts: Make your wildest car o    Studio M Art  
Models
12. Classic Cars    Attention car enthusiasts: Make your wildest car o    Unimax Art  
Galleries
13. Classic Cars    Attention car enthusiasts: Make your wildest car o    Welly Diecast  
Productions
14. Motorcycles    Our motorcycles are state of the art replicas of c    Autoart Studio  
Design
15. Motorcycles    Our motorcycles are state of the art replicas of c    Exoto Designs

16. Motorcycles Collectibles	Our motorcycles are state of the art replicas of c	Gearbox
17. Motorcycles Classics	Our motorcycles are state of the art replicas of c	Highway 66 Mini
18. Motorcycles	Our motorcycles are state of the art replicas of c	Min Lin Diecast
19. Motorcycles	Our motorcycles are state of the art replicas of c	Red Start Diecast
20. Motorcycles Diecast	Our motorcycles are state of the art replicas of c	Second Gear
21. Motorcycles Models	Our motorcycles are state of the art replicas of c	Studio M Art
22. Motorcycles Galleries	Our motorcycles are state of the art replicas of c	Unimax Art
23. Motorcycles Productions	Our motorcycles are state of the art replicas of c	Welly Diecast
24. Planes Unique, diecast airplane and helicopter replicas s		Autoart Studio Design
25. Planes Unique, diecast airplane and helicopter replicas s		Classic Metal Creations
26. Planes Unique, diecast airplane and helicopter replicas s		Gearbox Collectibles
27. Planes Unique, diecast airplane and helicopter replicas s		Highway 66 Mini Classics
28. Planes Unique, diecast airplane and helicopter replicas s		Min Lin Diecast
29. Planes Unique, diecast airplane and helicopter replicas s		Motor City Art Classics
30. Planes Unique, diecast airplane and helicopter replicas s		Red Start Diecast
31. Planes Unique, diecast airplane and helicopter replicas s		Second Gear Diecast
32. Planes Unique, diecast airplane and helicopter replicas s		Unimax Art Galleries
33. Ships The perfect holiday or anniversary gift for execut		Autoart Studio Design
34. Ships The perfect holiday or anniversary gift for execut Legends		Carousel DieCast
35. Ships The perfect holiday or anniversary gift for execut		Min Lin Diecast
36. Ships The perfect holiday or anniversary gift for execut		Red Start Diecast

37. Ships The perfect holiday or anniversary gift for execut Studio M Art Models

38. Ships The perfect holiday or anniversary gift for execut Unimax Art Galleries

39. Ships The perfect holiday or anniversary gift for execut Welly Diecast

Productions

40. Trains Model trains are a rewarding hobby for enthusiasts Carousel DieCast

Legends

41. Trains Model trains are a rewarding hobby for enthusiasts Classic Metal Creations

42. Trains Model trains are a rewarding hobby for enthusiasts Gearbox Collectibles

43. Trucks and Buses The Truck and Bus models are realistic replicas of Autoart

Studio Design

44. Trucks and Buses The Truck and Bus models are realistic replicas of Carousel

DieCast Legends

45. Trucks and Buses The Truck and Bus models are realistic replicas of Classic

Metal Creations

46. Trucks and Buses The Truck and Bus models are realistic replicas of Exoto

Designs

47. Trucks and Buses The Truck and Bus models are realistic replicas of Highway

66 Mini Classics

48. Trucks and Buses The Truck and Bus models are realistic replicas of Motor City

Art Classics

49. Trucks and Buses The Truck and Bus models are realistic replicas of Red Start

Diecast

50. Trucks and Buses The Truck and Bus models are realistic replicas of Studio M

Art Models

51. Trucks and Buses The Truck and Bus models are realistic replicas of Unimax Art

Galleries

52. Trucks and Buses The Truck and Bus models are realistic replicas of Welly

Diecast Productions

53. Vintage Cars Our Vintage Car models realistically portray autom Autoart Studio Design
54. Vintage Cars Our Vintage Car models realistically portray autom Carousel DieCast Legends
55. Vintage Cars Our Vintage Car models realistically portray autom Classic Metal Creations
56. Vintage Cars Our Vintage Car models realistically portray autom Exoto Designs
57. Vintage Cars Our Vintage Car models realistically portray autom Gearbox Collectibles
58. Vintage Cars Our Vintage Car models realistically portray autom Highway 66 Mini Classics
59. Vintage Cars Our Vintage Car models realistically portray autom Min Lin Diecast
60. Vintage Cars Our Vintage Car models realistically portray autom Motor City Art Classics
61. Vintage Cars Our Vintage Car models realistically portray autom Red Start Diecast
62. Vintage Cars Our Vintage Car models realistically portray autom Second Gear Diecast
63. Vintage Cars Our Vintage Car models realistically portray autom Studio M Art Models
64. Vintage Cars Our Vintage Car models realistically portray autom Unimax Art Galleries
65. Vintage Cars Our Vintage Car models realistically portray autom Welly Diecast Productions

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20. Select the customer name and their state for all customers that live in the same state as one of our offices ordered by customerName (26)

--#20

```
SELECT c.customername, o.state FROM customers c
INNER JOIN offices o ON o.state = c.state
ORDER BY customername;
```

Output:

1. Auto-Moto Classics Inc. MA
2. Boards & Toys Co. CA
3. Cambridge Collectables Co. MA
4. Classic Legends Inc. NY
5. Collectable Mini Designs Co. CA
6. Collectables For Less Inc. MA
7. Corporate Gift Ideas Co. CA
8. Diecast Collectables MA
9. FunGiftIdeas.com MA
10. Gifts4AllAges.com MA
11. Land of Toys Inc. NY
12. Marta's Replicas Co. MA
13. Men 'R' US Retailers, Ltd. CA
14. Microscale Inc. NY
15. Mini Classics NY
16. Mini Creations Ltd. MA
17. Mini Gifts Distributors Ltd. CA
18. Mini Wheels Co. CA
19. Muscle Machine Inc NY
20. Online Mini Collectables MA
21. Signal Collectibles Ltd. CA
22. Technics Stores Inc. CA

23. The Sharp Gifts Warehouse CA

24. Toys4GrownUps.com CA

25. Vitachrome Inc. NY

26. West Coast Collectables Co. CA

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21. Select the customer name of all customers who live in the same state as their employee representative works (26)

```
--#21  
  
SELECT c.customername FROM customers c  
INNER JOIN offices o ON c.state = o.state;
```

Output:

1. Mini Gifts Distributors Ltd.
2. Mini Wheels Co.
3. Land of Toys Inc.
4. Muscle Machine Inc
5. Technics Stores Inc.
6. Cambridge Collectables Co.
7. Vitachrome Inc.
8. Auto-Moto Classics Inc.
9. Online Mini Collectables
10. Toys4GrownUps.com
11. Boards & Toys Co.
12. Collectable Mini Designs Co.
13. Marta's Replicas Co.
14. Mini Classics



15. Mini Creations Ltd.
16. Corporate Gift Ideas Co.
17. Men 'R' US Retailers, Ltd.
18. Gifts4AllAges.com
19. Collectables For Less Inc.
20. Classic Legends Inc.
21. The Sharp Gifts Warehouse
22. Microscale Inc.
23. FunGiftIdeas.com
24. West Coast Collectables Co.
25. Signal Collectibles Ltd.
26. Diecast Collectables

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22. Select customer name, order date, quantity ordered, product line, product name for all orders by a customer with the string 'Decorations' in their name, made and shipped during odd-numbered months in 2015 ordered by customer name and order date. SQL has a mod function that takes two arguments: the number that you want to perform modular division on, and the divisor. For instance mod (8, 3) will return 2. (28)

```
-- #22

SELECT c.customername, o.orderdate, od.quantityordered,
p.productline, p.productname
FROM orders o
JOIN customers c ON o.customernumber = c.customernumber
JOIN orderdetails od ON o.ordernumber = od.ordernumber
JOIN products p ON od.productcode = p.productcode
```

```
WHERE c.customername LIKE '%Decorations%' AND o.orderdate >=
'2015-01-01' AND o.orderdate <= '2015-12-31'
ORDER BY c.customername, o.orderdate;
```

Output:

1.	Anna's Decorations, Ltd	2015-01-20	35	Classic Cars	1962 LanciaA Delta 16V
2.	Anna's Decorations, Ltd	2015-01-20	49	Trucks and Buses	1958 Setra Bus
3.	Anna's Decorations, Ltd	2015-01-20	27	Trucks and Buses	1940 Ford Pickup Truck
4.	Anna's Decorations, Ltd	2015-01-20	22	Trucks and Buses	1964 Mercedes Tour Bus
5.	Anna's Decorations, Ltd	2015-01-20	22	Trucks and Buses	1926 Ford Fire Engine
6.	Anna's Decorations, Ltd	2015-01-20	27	Classic Cars	1992 Ferrari 360 Spider red
7.	Anna's Decorations, Ltd	2015-01-20	29	Trucks and Buses	1940s Ford truck
8.	Anna's Decorations, Ltd	2015-01-20	20	Vintage Cars	1939 Cadillac Limousine
9.	Anna's Decorations, Ltd	2015-01-20	25	Trucks and Buses	1996 Peterbilt 379 Stake Bed with Outrigger
10.	Anna's Decorations, Ltd	2015-03-09	24	Classic Cars	1952 Alpine Renault 1300
11.	Anna's Decorations, Ltd	2015-03-09	37	Classic Cars	1962 LanciaA Delta 16V

12. Anna's Decorations, Ltd	2015-03-09	39	Trucks and Buses	1958 Setra Bus
13. Anna's Decorations, Ltd	2015-03-09	29	Trucks and Buses	1940 Ford Pickup Truck
14. Anna's Decorations, Ltd	2015-03-09	35	Vintage Cars	1937 Lincoln Berline
15. Anna's Decorations, Ltd	2015-03-09	42	Vintage Cars	1936 Mercedes-Benz 500K Special Roadster
16. Anna's Decorations, Ltd	2015-03-09	44	Trucks and Buses	1926 Ford Fire Engine
17. Anna's Decorations, Ltd	2015-03-09	32	Vintage Cars	1913 Ford Model T Speedster
18. Anna's Decorations, Ltd	2015-03-09	33	Vintage Cars	1939 Chevrolet Deluxe Coupe
19. Anna's Decorations, Ltd	2015-03-09	24	Vintage Cars	1938 Cadillac V-16 Presidential Limousine
20. Extreme Desk Decorations, Ltd	2015-05-16	16	Classic Cars	1969 Dodge Super Bee
21. Extreme Desk Decorations, Ltd	2015-05-16	27	Classic Cars	1976 Ford Gran Torino
22. Extreme Desk Decorations, Ltd	2015-05-16	33	Motorcycles	1957 Vespa GS150
23. Extreme Desk Decorations, Ltd	2015-05-16	28	Classic Cars	1957 Corvette Convertible
24. Extreme Desk Decorations, Ltd	2015-05-16	52	Motorcycles	1982 Ducati 900 Monster
25. Extreme Desk Decorations, Ltd	2015-05-16	10	Classic Cars	1961 Chevrolet Impala

26. Extreme Desk Decorations, Ltd	2015-05-16	43	Motorcycles	1982
Ducati 996 R				
27. Extreme Desk Decorations, Ltd	2015-05-16	50	Motorcycles	1974
Ducati 350 Mk3 Desmo				
28. Extreme Desk Decorations, Ltd	2015-05-16	40	Motorcycles	2002
Yamaha YZR M1				

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23. List the product name and product code of products that didn't sell (1)

```
--#23

SELECT p.productname, p.productcode FROM products p
LEFT OUTER JOIN OrderDetails od
ON p.productcode = od.productcode
WHERE od.ordernumber IS NULL;
```

Output:

1. 1985 Toyota Supra S18\_3233
- 

24. List the name of all customers and first and last name of their sales rep even if they don't have a sales rep (122)

```
--#24

SELECT customername, lastname, firstname
FROM Customers LEFT OUTER JOIN Employees
ON Customers.salesrepemployeenumber =
Employees.employeenumber;
```

Output:

1. Atelier graphique Hernandez Gerard

2. Signal Gift Stores      Thompson      Leslie
3. Australian Collectors, Co.      Fixter      Andy
4. La Rochelle Gifts      Hernandez      Gerard
5. Baane Mini Imports      Jones      Barry
6. Mini Gifts Distributors Ltd.      Jennings      Leslie
7. Havel & Zbyszek Co
8. Blauer See Auto, Co.      Jones      Barry
9. Mini Wheels Co.      Jennings      Leslie
10. Land of Toys Inc.      Vanauf George
11. Euro+ Shopping Channel      Hernandez      Gerard
12. Volvo Model Replicas, Co      Jones      Barry
13. Danish Wholesale Imports      Castillo      Pamela
14. Saveley & Henriot, Co.      BondurLoui
15. Dragon Souvenirs, Ltd.      Nishi      Mami
16. Muscle Machine Inc      Tseng      Foon Yue
17. Diecast Classics Inc.      Patterson      Steve
18. Technics Stores Inc.      Jennings      Leslie
19. Handji Gifts& Co      Marsh      Peter
20. Herkku Gifts      Jones      Barry
21. American Souvenirs Inc      Tseng      Foon Yue
22. Porto Imports Co.
23. Daedalus Designs Imports      Hernandez      Gerard
24. La Corne D'abondance, Co.      BondurLoui
25. Cambridge Collectables Co.      Firrelli      Julie
26. Gift Depot Inc.      Vanauf George
27. Osaka Souvenirs Co.      Nishi      Mami
28. Vitachrome Inc.      Tseng      Foon Yue
29. Toys of Finland, Co.      Bott      Larry

30. AV Stores, Co. Bott Larry
31. Clover Collections, Co. Jones Barry
32. Auto-Moto Classics Inc. Patterson Steve
33. UK Collectables, Ltd. Bott Larry
34. Canadian Gift Exchange Network Vanauf George
35. Online Mini Collectables Firrelli Julie
36. Toys4GrownUps.com Thompson Leslie
37. Asian Shopping Network, Co
38. Mini Caravy Hernandez Gerard
39. King Kong Collectables, Co. Nishi Mami
40. Enaco Distributors Gerard Martin
41. Boards & Toys Co. Thompson Leslie
42. Natürlich Autos
43. Heintze Collectables Castillo Pamela
44. Québec Home Shopping Network Tseng Foon Yue
45. ANG Resellers
46. Collectable Mini Designs Co. Thompson Leslie
47. giftsbymail.co.uk Bott Larry
48. Alpha Cognac Hernandez Gerard
49. Messner Shopping Network
50. Amica Models & Co. Castillo Pamela
51. Lyon Souvenirs BondurLoui
52. Auto Associés & Cie. Hernandez Gerard
53. Toms Spezialitäten, Ltd Jones Barry
54. Royal Canadian Collectables, Ltd. Vanauf George
55. Franken Gifts, Co
56. Anna's Decorations, Ltd Fixter Andy
57. Rovelli Gifts Castillo Pamela

58. Souvenirs And Things Co. Fixter Andy
59. Marta's Replicas Co. Patterson Steve
60. BG&E Collectables
61. Vida Sport, Ltd Gerard Martin
62. Norway Gifts By Mail, Co. Jones Barry
63. Schuyler Imports
64. Der Hund Imports
65. Oulu Toy Supplies, Inc. Bott Larry
66. Petit Auto Castillo Pamela
67. Mini Classics Vanauf George
68. Mini Creations Ltd. Firrelli Julie
69. Corporate Gift Ideas Co. Jennings Leslie
70. Down Under Souvenirs, Inc Marsh Peter
71. Stylish Desk Decors, Co. Bott Larry
72. Tekni Collectables Inc. Vanauf George
73. Australian Gift Network, Co Fixter Andy
74. Suominen Souvenirs Bott Larry
75. Cramer Spezialitäten, Ltd
76. Classic Gift Ideas, Inc Firrelli Julie
77. CAF Imports Gerard Martin
78. Men 'R' US Retailers, Ltd. Thompson Leslie
79. Asian Treasures, Inc.
80. Marseille Mini Autos BondurLoui
81. Reims Collectables BondurLoui
82. SAR Distributors, Co
83. GiftsForHim.com Marsh Peter
84. Kommission Auto
85. Gifts4AllAges.com Patterson Steve

86. Online Diecast Creations Co. Patterson Steve
87. Lisboa Souvenirs, Inc
88. Precious Collectables Gerard Martin
89. Collectables For Less Inc. Firrelli Julie
90. Royale Belge Castillo Pamela
91. Salzburg Collectables Castillo Pamela
92. Cruz & Sons Co. Nishi Mami
93. L'ordine Souvenirs Castillo Pamela
94. Tokyo Collectables, Ltd Nishi Mami
95. Auto Canal+ Petit BondurLoui
96. Stuttgart Collectable Exchange
97. Extreme Desk Decorations, Ltd Marsh Peter
98. Bavarian Collectables Imports, Co. Jones Barry
99. Classic Legends Inc. Tseng Foon Yue
100. Feuer Online Stores, Inc
101. Gift Ideas Corp. Vanauf George
102. Scandinavian Gift Ideas Jones Barry
103. The Sharp Gifts Warehouse Jennings Leslie
104. Mini Auto Werke Castillo Pamela
105. Super Scale Inc. Tseng Foon Yue
106. Microscale Inc. Tseng Foon Yue
107. Corrida Auto Replicas, Ltd Gerard Martin
108. Warburg Exchange
109. FunGiftIdeas.com Patterson Steve
110. Anton Designs, Ltd.
111. Australian Collectables, Ltd Fixter Andy
112. Frau da Collezione Castillo Pamela
113. West Coast Collectables Co. Thompson Leslie



- 114. Mit Vergnügen & Co.
- 115. Kremlin Collectables, Co.
- 116. Raanan Stores, Inc
- 117. Iberia Gift Imports, Corp. Gerard Martin
- 118. Motor Mint Distributors Inc. Vanauf George
- 119. Signal Collectibles Ltd. Jennings Leslie
- 120. Double Decker Gift Stores, Ltd Bott Larry
- 121. Diecast Collectables Firrelli Julie
- 122. Kelly's Gift Shop Marsh Peter