/\*. 54) List all the customers who have never made a payment on the same date as another

customer. Order by customer name. (57)\*/

SELECT CUSTOMERS.CUSTOMERNAME FROM CUSTOMERS

WHERE CUSTOMERS.CUSTOMERNUMBER IN

(SELECT P1.CUSTOMERNUMBER FROM PAYMENTS P1 INNER JOIN PAYMENTS P2

ON P1.PAYMENTDATE = P2.PAYMENTDATE

WHERE P1.CUSTOMERNUMBER != P2.CUSTOMERNUMBER

AND P1.CUSTOMERNUMBER<P2.CUSTOMERNUMBER

)

ORDER BY CUSTOMERNAME;

|  |
| --- |
| Alpha Cognac |
| Anna's Decorations, Ltd |
| Australian Gift Network, Co |
| Auto-Moto Classics Inc. |
| Blauer See Auto, Co. |
| Daedalus Designs Imports |
| Diecast Classics Inc. |
| Dragon Souveniers, Ltd. |
| Euro+ Shopping Channel |
| Extreme Desk Decorations, Ltd |
| Handji Gifts& Co |
| Heintze Collectables |
| Herkku Gifts |
| King Kong Collectables, Co. |
| La Rochelle Gifts |
| Marta's Replicas Co. |
| Mini Caravy |
| Mini Creations Ltd. |
| Mini Gifts Distributors Ltd. |
| Mini Wheels Co. |
| Norway Gifts By Mail, Co. |
| Online Diecast Creations Co. |
| QuÃ©bec Home Shopping Network |
| Rovelli Gifts |
| Salzburg Collectables |
| Saveley & Henriot, Co. |
| Signal Gift Stores |
| Souveniers And Things Co. |
| Technics Stores Inc. |
| Tokyo Collectables, Ltd |
| Toms SpezialitÃ¤ten, Ltd |
| Toys of Finland, Co. |
| [Toys4GrownUps.com](http://toys4grownups.com) |
| Vitachrome Inc. |
| Alpha Cognac |
| Anna's Decorations, Ltd |
| Australian Gift Network, Co |
| Auto-Moto Classics Inc. |
| Blauer See Auto, Co. |
| Daedalus Designs Imports |
| Diecast Classics Inc. |
| Dragon Souveniers, Ltd. |
| Euro+ Shopping Channel |
| Extreme Desk Decorations, Ltd |
| Handji Gifts& Co |
| Heintze Collectables |
| Herkku Gifts |
| King Kong Collectables, Co. |
| La Rochelle Gifts |
| Marta's Replicas Co. |
| Mini Caravy |
| Mini Creations Ltd. |
| Mini Gifts Distributors Ltd. |
| Mini Wheels Co. |
| Norway Gifts By Mail, Co. |
| Online Diecast Creations Co. |
| QuÃ©bec Home Shopping Network |
| Rovelli Gifts |

/\*

55) Find customers who have ordered the same thing. For instance, if ‘AV Stores, Co.’ orders

a particular item five times, and ‘Land of Toys Inc.’ orders that same item 4 times, it only

counts as one item that they have ordered in common. Find only those customer pairs

who have ordered at least 40 different items in common (3).

\*/

SELECT C1.CUSTOMERNAME, C2.customername

FROM ORDERDETAILS OD1

INNER JOIN ORDERDETAILS OD2 using(productcode)

INNER JOIN ORDERS O1 on OD1.ORDERNUMBER = O1.ORDERNUMBER

INNER JOIN CUSTOMERS C1 on O1.CUSTOMERNUMBER = C1.CUSTOMERNUMBER

INNER JOIN ORDERS O2 on OD2.ORDERNUMBER = O2.ORDERNUMBER

INNER JOIN CUSTOMERS C2 on O2.CUSTOMERNUMBER = C2.CUSTOMERNUMBER

WHERE C1.CUSTOMERNUMBER < C2.CUSTOMERNUMBER

GROUP BY C1.CUSTOMERNAME, C2.CUSTOMERNAME

HAVING count(DISTINCT PRODUCTCODE) > 40

ORDER BY C1.CUSTOMERNAME,C2.CUSTOMERNAME;

|  |  |
| --- | --- |
| CUSTOMERNAME | CUSTOMERNAME |
| Euro+ Shopping Channel | Kelly's Gift Shop |
| Euro+ Shopping Channel | Souveniers And Things Co. |
| Mini Gifts Distributors Ltd. | Euro+ Shopping Channel |

/\*

56) What is the manager who manages the greatest number of employees (2)

\*/

SELECT EMPLOYEENUMBER, LASTNAME, FIRSTNAME FROM EMPLOYEES

WHERE EMPLOYEENUMBER IN

(SELECT REPORTSTO FROM EMPLOYEES GROUP BY REPORTSTO

HAVING COUNT(EMPLOYEENUMBER)=(

SELECT MAX(EM.NUMEMPLOYEES)

FROM (SELECT REPORTSTO, COUNT(EMPLOYEENUMBER) AS NUMEMPLOYEES

FROM EMPLOYEES GROUP BY REPORTSTO

) AS EM));

|  |  |  |
| --- | --- | --- |
| EMPLOYEENUMBER | LASTNAME | FIRSTNAME |
| 1102 | Bondur | Gerard |
| 1143 | Bow | Anthony |

/\*

57) Select all employees and their manager who work for the manager that manages the

greatest number of employee (12)

\*/

SELECT EMPLOYEENUMBER, LASTNAME, FIRSTNAME FROM EMPLOYEES

WHERE REPORTSTO IN

(SELECT REPORTSTO FROM EMPLOYEES GROUP BY REPORTSTO

HAVING COUNT(EMPLOYEENUMBER)=(

SELECT MAX(EM.NUMEMPLOYEES)

FROM (SELECT REPORTSTO, COUNT(EMPLOYEENUMBER) AS NUMEMPLOYEES

FROM EMPLOYEES GROUP BY REPORTSTO

) AS EM));

|  |  |  |
| --- | --- | --- |
| EMPLOYEENUMBER | LASTNAME | FIRSTNAME |
| 1165 | Jennings | Leslie |
| 1166 | Thompson | Leslie |
| 1188 | Firrelli | Julie |
| 1216 | Patterson | Steve |
| 1286 | Tseng | Foon Yue |
| 1323 | Vanauf | George |
| 1337 | Bondur | Loui |
| 1370 | Hernandez | Gerard |
| 1401 | Castillo | Pamela |
| 1501 | Bott | Larry |
| 1504 | Jones | Barry |
| 1702 | Gerard | Martin |

/\*

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 AS E1

INNER JOIN EMPLOYEES AS E2 ON E1.LASTNAME=E2.LASTNAME

WHERE E1.EMPLOYEENUMBER<E2.EMPLOYEENUMBER;

|  |  |  |  |
| --- | --- | --- | --- |
| FIRSTNAME | LASTNAME | FIRSTNAME | LASTNAME |
| Mary | Patterson | William | Patterson |
| Mary | Patterson | Steve | Patterson |
| Jeff | Firrelli | Julie | Firrelli |
| William | Patterson | Steve | Patterson |
| Gerard | Bondur | Loui | Bondur |

/\*

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. (46)

\*/

SELECT C1.CUSTOMERNAME, C2.CUSTOMERNAME FROM PAYMENTS AS P1

INNER JOIN CUSTOMERS AS C1 ON P1.CUSTOMERNUMBER=C1.CUSTOMERNUMBER

INNER JOIN PAYMENTS AS P2 ON P1.PAYMENTDATE=P2.PAYMENTDATE

INNER JOIN CUSTOMERS AS C2 ON P2.CUSTOMERNUMBER=C2.CUSTOMERNUMBER

WHERE P1.CUSTOMERNUMBER<P2.CUSTOMERNUMBER;

|  |  |
| --- | --- |
| CUSTOMERNAME | CUSTOMERNAME |
| Mini Wheels Co. | Volvo Model Replicas, Co |
| La Rochelle Gifts | Technics Stores Inc. |
| Euro+ Shopping Channel | Gift Depot Inc. |
| Mini Wheels Co. | AV Stores, Co. |
| Euro+ Shopping Channel | King Kong Collectables, Co. |
| Auto-Moto Classics Inc. | Enaco Distributors |
| Blauer See Auto, Co. | Boards & Toys Co. |
| Mini Gifts Distributors Ltd. | Heintze Collectables |
| Technics Stores Inc. | QuÃ©bec Home Shopping Network |
| Daedalus Designs Imports | Collectable Mini Designs Co. |
| Vitachrome Inc. | [giftsbymail.co.uk](http://giftsbymail.co.uk) |
| Daedalus Designs Imports | Alpha Cognac |
| Herkku Gifts | Amica Models & Co. |
| Marta's Replicas Co. | Norway Gifts By Mail, Co. |
| Vitachrome Inc. | Oulu Toy Supplies, Inc. |
| Toms SpezialitÃ¤ten, Ltd | Mini Classics |
| Toms SpezialitÃ¤ten, Ltd | Mini Classics |
| Rovelli Gifts | Mini Creations Ltd. |
| Rovelli Gifts | CAF Imports |
| Mini Creations Ltd. | CAF Imports |
| Norway Gifts By Mail, Co. | Men 'R' US Retailers, Ltd. |
| Alpha Cognac | Reims Collectables |
| Auto-Moto Classics Inc. | [Gifts4AllAges.com](http://gifts4allages.com) |
| Souveniers And Things Co. | Collectables For Less Inc. |
| Diecast Classics Inc. | Cruz & Sons Co. |
| Technics Stores Inc. | L'ordine Souveniers |
| QuÃ©bec Home Shopping Network | L'ordine Souveniers |
| Mini Caravy | Tokyo Collectables, Ltd |
| Heintze Collectables | Classic Legends Inc. |
| Signal Gift Stores | Gift Ideas Corp. |
| Mini Caravy | The Sharp Gifts Warehouse |
| Tokyo Collectables, Ltd | The Sharp Gifts Warehouse |
| Australian Gift Network, Co | Mini Auto Werke |
| Mini Caravy | Mini Auto Werke |
| Online Diecast Creations Co. | Super Scale Inc. |
| Salzburg Collectables | [FunGiftIdeas.com](http://fungiftideas.com) |
| Saveley & Henriot, Co. | Australian Collectables, Ltd |
| Toys of Finland, Co. | Frau da Collezione |
| Euro+ Shopping Channel | West Coast Collectables Co. |
| King Kong Collectables, Co. | West Coast Collectables Co. |
| Extreme Desk Decorations, Ltd | Motor Mint Distributors Inc. |
| Anna's Decorations, Ltd | Signal Collectibles Ltd. |
| Handji Gifts& Co | Signal Collectibles Ltd. |
| [Toys4GrownUps.com](http://toys4grownups.com) | Double Decker Gift Stores, Ltd |
| Dragon Souveniers, Ltd. | Diecast Collectables |
| Euro+ Shopping Channel | Kelly's Gift Shop |

/\*

60) Find 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, C2.CUSTOMERNAME, COALESCE(C1.STATE, 'N/A'), C1.COUNTRY FROM CUSTOMERS AS C1

INNER JOIN CUSTOMERS AS C2 ON C1.COUNTRY=C2.COUNTRY

AND C1."STATE"=C2."STATE"

WHERE C1.COUNTRY IN('UK','Australia','Italy','Canada');

|  |  |  |  |
| --- | --- | --- | --- |
| CUSTOMERNAME | CUSTOMERNAME | 3 | COUNTRY |
| Australian Collectors, Co. | Australian Collectors, Co. | Victoria | Australia |
| Australian Collectors, Co. | Australian Collectables, Ltd | Victoria | Australia |
| Canadian Gift Exchange Network | Canadian Gift Exchange Network | BC | Canada |
| Canadian Gift Exchange Network | Royal Canadian Collectables, Ltd. | BC | Canada |
| QuÃ©bec Home Shopping Network | QuÃ©bec Home Shopping Network | QuÃ©bec | Canada |
| [giftsbymail.co.uk](http://giftsbymail.co.uk) | [giftsbymail.co.uk](http://giftsbymail.co.uk) | Isle of Wight | UK |
| Royal Canadian Collectables, Ltd. | Canadian Gift Exchange Network | BC | Canada |
| Royal Canadian Collectables, Ltd. | Royal Canadian Collectables, Ltd. | BC | Canada |
| Anna's Decorations, Ltd | Anna's Decorations, Ltd | NSW | Australia |
| Anna's Decorations, Ltd | Souveniers And Things Co. | NSW | Australia |
| Souveniers And Things Co. | Anna's Decorations, Ltd | NSW | Australia |
| Souveniers And Things Co. | Souveniers And Things Co. | NSW | Australia |
| Australian Gift Network, Co | Australian Gift Network, Co | Queensland | Australia |
| Australian Collectables, Ltd | Australian Collectors, Co. | Victoria | Australia |
| Australian Collectables, Ltd | Australian Collectables, Ltd | Victoria | Australia |

/\*

61) Find all of the customers 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, C2.CUSTOMERNAME, EMPLOYEES.FIRSTNAME, EMPLOYEES.LASTNAME FROM CUSTOMERS AS C1

INNER JOIN CUSTOMERS AS C2 ON C1.SALESREPEMPLOYEENUMBER=C2.SALESREPEMPLOYEENUMBER

INNER JOIN EMPLOYEES ON C1.SALESREPEMPLOYEENUMBER = EMPLOYEES.EMPLOYEENUMBER

WHERE (C1.CUSTOMERNAME LIKE '%Australian%' OR C2.CUSTOMERNAME LIKE '%Australian%')

AND C1.CUSTOMERNUMBER<C2.CUSTOMERNUMBER

ORDER BY C1.CUSTOMERNAME, C2.CUSTOMERNAME;

|  |  |  |  |
| --- | --- | --- | --- |
| CUSTOMERNAME | CUSTOMERNAME | FIRSTNAME | LASTNAME |
| Anna's Decorations, Ltd | Australian Collectables, Ltd | Andy | Fixter |
| Anna's Decorations, Ltd | Australian Gift Network, Co | Andy | Fixter |
| Australian Collectors, Co. | Anna's Decorations, Ltd | Andy | Fixter |
| Australian Collectors, Co. | Australian Collectables, Ltd | Andy | Fixter |
| Australian Collectors, Co. | Australian Gift Network, Co | Andy | Fixter |
| Australian Collectors, Co. | Souveniers And Things Co. | Andy | Fixter |
| Australian Gift Network, Co | Australian Collectables, Ltd | Andy | Fixter |
| Souveniers And Things Co. | Australian Collectables, Ltd | Andy | Fixter |
| Souveniers And Things Co. | Australian Gift Network, Co | Andy | Fixter |