

Hw#3 JiaRui Shao

**1) Show the names and addresses of customers located in the United States that have a credit limit of more than \$100,000**

SQL:

```
SELECT CUSTOMERNAME, ADDRESSLINE1, ADDRESSLINE2, CITY, STATE,
POSTALCODE
```

```
FROM CUSTOMERS
```

```
WHERE COUNTRY = 'USA' AND CREDITLIMIT > 100000;
```

Results:

| Query2                       |                           |              |               |       |            |
|------------------------------|---------------------------|--------------|---------------|-------|------------|
| CUSTOMERNAME                 | ADDRESSLINE1              | ADDRESSLINE2 | CITY          | STATE | POSTALCODE |
| Mini Gifts Distributors Ltd. | 5677 Strong St.           |              | San Rafael    | CA    | 97562      |
| Land of Toys Inc.            | 897 Long Airport Avenue   |              | NYC           | NY    | 10022      |
| Muscle Machine Inc           | 4092 Furth Circle         | Suite 400    | NYC           | NY    | 10022      |
| Diecast Classics Inc.        | 7586 Pompton St.          |              | Allentown     | PA    | 70267      |
| Collectable Mini Designs Co. | 361 Furth Circle          |              | San Diego     | CA    | 91217      |
| Marta's Replicas Co.         | 39323 Spinnaker Dr.       |              | Cambridge     | MA    | 51247      |
| Mini Classics                | 3758 North Pendale Street |              | White Plains  | NY    | 24067      |
| Corporate Gift Ideas Co.     | 7734 Strong St.           |              | San Francisco | CA    | 94217      |
| Online Diecast Creations Co. | 2304 Long Airport Avenue  |              | Nashua        | NH    | 62005      |

**2) For each customer located in France, show the number of "Shipped" orders.**

SQL:

```
SELECT CUSTOMERNAME, COUNT(*) AS Shipped_Orders
```

```
FROM CUSTOMERS
```

```
INNER JOIN ORDERS
```

```
ON CUSTOMERS.CUSTOMERNUMBER = ORDERS.CUSTOMERNUMBER
```

```
WHERE COUNTRY = 'France' AND STATUS = 'Shipped'
```

```
GROUP BY CUSTOMERNAME;
```

Results:

| Q2                    |                |
|-----------------------|----------------|
| CUSTOMERNAME          | Shipped_Orders |
| Alpha Cognac          | 3              |
| Atelier graphique     | 3              |
| Auto AssociÃ©s & Cie. | 2              |
| Auto Canal+ Petit     | 3              |

| Q2                        |                |
|---------------------------|----------------|
| CUSTOMERNAME              | Shipped_Orders |
| Daedalus Designs Imports  | 2              |
| La Corne D'abondance, Co. | 3              |
| La Rochelle Gifts         | 3              |
| Lyon Souvenirs            | 3              |
| Marseille Mini Autos      | 3              |
| Mini Caravy               | 3              |
| Reims Collectables        | 5              |
| Saveley & Henriot, Co.    | 3              |

**3) For each Product Line, show a count of the number of products and the average MSRP.**

SQL:

```
SELECT PRODUCTLINES.PRODUCTLINE, COUNT(*) AS Product_Num,
AVG(PRODUCTS.MSRP) AS Avg_MSRP
FROM PRODUCTS
INNER JOIN PRODUCTLINES
ON PRODUCTS.PRODUCTLINE = PRODUCTLINES.PRODUCTLINE
GROUP BY PRODUCTLINES.PRODUCTLINE;
```

Results:

| Q3               |             |                  |
|------------------|-------------|------------------|
| PRODUCTLINE      | Product_Num | Avg_MSRP         |
| Classic Cars     | 38          | 118.021052631579 |
| Motorcycles      | 13          | 97.1784615384615 |
| Planes           | 12          | 89.5158333333334 |
| Ships            | 9           | 86.5633333333333 |
| Trains           | 3           | 73.8533333333333 |
| Trucks and Buses | 11          | 103.183636363636 |
| Vintage Cars     | 24          | 87.0958333333333 |

**4) What is the product name, product line and MSRP of the most expensive product?**

SQL:

```
SELECT TOP 1 PRODUCTNAME, PRODUCTLINE, MSRP
FROM PRODUCTS
ORDER BY BUYPRICE DESC;
```

Results:

| Q4                     |              |        |
|------------------------|--------------|--------|
| PRODUCTNAME            | PRODUCTLINE  | MSRP   |
| 1962 LanciaA Delta 16V | Classic Cars | 147.74 |

**5) For each Sales rep working in the EMEA territory, show the customer name of customers who are in the same country as the sales rep.**

SQL:

```
SELECT EMPLOYEES.FIRSTNAME, EMPLOYEES.LASTNAME,
CUSTOMERS.CUSTOMERNAME

FROM (EMPLOYEES
      INNER JOIN OFFICES
            ON EMPLOYEES.OFFICECODE = OFFICES.OFFICECODE)
      INNER JOIN CUSTOMERS
            ON EMPLOYEES.EMPLOYEEENUMBER =
CUSTOMERS.SALESREPEMPOYEEENUMBER

WHERE OFFICES.COUNTRY = CUSTOMERS.COUNTRY AND OFFICES.TERRITORY =
'EMEA' AND EMPLOYEES.JOBTITLE = 'Sales Rep';
```

Results:

| Query2    |           |                                |
|-----------|-----------|--------------------------------|
| FIRSTNAME | LASTNAME  | CUSTOMERNAME                   |
| Gerard    | Hernandez | Atelier graphique              |
| Gerard    | Hernandez | La Rochelle Gifts              |
| Loui      | Bondur    | Saveley & Henriot, Co.         |
| Gerard    | Hernandez | Daedalus Designs Imports       |
| Loui      | Bondur    | La Corne D'abondance, Co.      |
| Larry     | Bott      | AV Stores, Co.                 |
| Larry     | Bott      | UK Collectables, Ltd.          |
| Gerard    | Hernandez | Mini Caravy                    |
| Larry     | Bott      | giftsbymail.co.uk              |
| Gerard    | Hernandez | Alpha Cognac                   |
| Loui      | Bondur    | Lyon Souvenirs                 |
| Gerard    | Hernandez | Auto AssociÃ©s & Cie.          |
| Larry     | Bott      | Stylish Desk Decors, Co.       |
| Loui      | Bondur    | Marseille Mini Autos           |
| Loui      | Bondur    | Reims Collectables             |
| Loui      | Bondur    | Auto Canal+ Petit              |
| Larry     | Bott      | Double Decker Gift Stores, Ltd |

**6) Show the total order amount (quantity ordered \* price each) for each customer located in Finland, Denmark or Sweden. Be sure to show the customer's name and only include orders that have shipped.**

SQL:

```
SELECT CUSTOMERS.CUSTOMERNAME,
SUM(ORDERDETAILS.QUANTITYORDERED*ORDERDETAILS.PRICEEACH) AS
Total_Order_Amount
FROM (ORDERDETAILS
INNER JOIN ORDERS
        ON ORDERDETAILS.ORDERNUMBER = ORDERS.ORDERNUMBER)
INNER JOIN CUSTOMERS
        ON ORDERS.CUSTOMERNUMBER =
CUSTOMERS.CUSTOMERNUMBER
WHERE CUSTOMERS.COUNTRY IN ('Finland', 'Denmark', 'Sweden') AND
ORDERS.STATUS = 'Shipped'
GROUP BY CUSTOMERS.CUSTOMERNAME;
```

Results:

| Q6                       |                    |
|--------------------------|--------------------|
| CUSTOMERNAME             | Total_Order_Amount |
| Danish Wholesale Imports | 86881.64           |
| Heintze Collectables     | 89909.8            |
| Oulu Toy Supplies, Inc.  | 95706.15           |
| Scandinavian Gift Ideas  | 76776.44           |
| Suominen Souvenirs       | 103896.74          |
| Toys of Finland, Co.     | 95546.46           |
| Volvo Model Replicas, Co | 43680.65           |

**7) For each Sales Manager, show a count of the number of Sales reps. that report to them**

SQL:

```
SELECT E1.EMPLOYEENUMBER, E1.LASTNAME, E1.FIRSTNAME,
COUNT(E2.EMPLOYEENUMBER) AS Salesrep_Num
FROM EMPLOYEES E1
INNER JOIN EMPLOYEES E2
        ON E1.EMPLOYEENUMBER = E2.REPORTSTO
WHERE (E1.JOBTITLE LIKE "*Manager*") AND (E2.JOBTITLE = "Sales
Rep")
GROUP BY E1.EMPLOYEENUMBER, E1.LASTNAME, E1.FIRSTNAME;
```

Results:

| Q7             |           |           |              |
|----------------|-----------|-----------|--------------|
| EMPLOYEENUMBER | LASTNAME  | FIRSTNAME | Salesrep_Num |
| 1088           | Patterson | William   | 3            |
| 1102           | Bondur    | Gerard    | 6            |
| 1143           | Bow       | Anthony   | 6            |

**Extra Credit: For each customer, show the net balance of total order amount vs. total payments.**

SQL:

```
SELECT CUSTOMERS_PAYMENTS.CUSTOMERNUMBER,
       CUSTOMERS_PAYMENTS.CUSTOMERNAME,
       (SUM(ORDERDETAILS.QUANTITYORDERED*ORDERDETAILS.PRICEEACH) -
        CUSTOMERS_PAYMENTS.Total_Payment) AS Total_Balance
FROM (
       (SELECT CUSTOMERS.CUSTOMERNUMBER, CUSTOMERS.CUSTOMERNAME,
        SUM(PAYMENTS.AMOUNT) AS Total_Payment
        FROM CUSTOMERS
        INNER JOIN PAYMENTS
            ON CUSTOMERS.CUSTOMERNUMBER =
PAYMENTS.CUSTOMERNUMBER
        GROUP BY CUSTOMERS.CUSTOMERNUMBER, CUSTOMERS.CUSTOMERNAME
       ) CUSTOMERS_PAYMENTS
  INNER JOIN ORDERS
            ON CUSTOMERS_PAYMENTS.CUSTOMERNUMBER =
ORDERS.CUSTOMERNUMBER
)
  INNER JOIN ORDERDETAILS
            ON ORDERS.ORDERNUMBER = ORDERDETAILS.ORDERNUMBER
GROUP BY CUSTOMERS_PAYMENTS.CUSTOMERNUMBER,
CUSTOMERS_PAYMENTS.CUSTOMERNAME,
CUSTOMERS_PAYMENTS.Total_Payment;
```

Results:

| Query2         |                              |                       |
|----------------|------------------------------|-----------------------|
| CUSTOMERNUMBER | CUSTOMERNAME                 | Total_Balance         |
| 103            | Atelier graphique            | 0                     |
| 112            | Signal Gift Stores           | 0                     |
| 114            | Australian Collectors, Co.   | 0                     |
| 119            | La Rochelle Gifts            | 41623.44              |
| 121            | Baane Mini Imports           | 0                     |
| 124            | Mini Gifts Distributors Ltd. | 7639.09999999986      |
| 128            | Blauer See Auto, Co.         | -1.45519152283669E-11 |
| 129            | Mini Wheels Co.              | 0                     |
| 131            | Land of Toys Inc.            | 41445.21              |
| 141            | Euro+ Shopping Channel       | 104950.56             |
| 144            | Volvo Model Replicas, Co     | 23014.17              |
| 145            | Danish Wholesale Imports     | 21638.62              |
| 146            | Saveley & Henriot, Co.       | 0                     |
| 148            | Dragon Souvenirs, Ltd.       | 0                     |
| 151            | Muscle Machine Inc           | 0                     |
| 157            | Diecast Classics Inc.        | 5849.44               |

| Query2         |                                   |                       |
|----------------|-----------------------------------|-----------------------|
| CUSTOMERNUMBER | CUSTOMERNAME                      | Total_Balance         |
| 161            | Technics Stores Inc.              | 0                     |
| 166            | Handji Gifts& Co                  | 2326.17999999999      |
| 167            | Herkku Gifts                      | 0                     |
| 171            | Daedalus Designs Imports          | 0                     |
| 172            | La Corne D'abondance, Co.         | 0                     |
| 173            | Cambridge Collectables Co.        | -3.63797880709171E-12 |
| 175            | Gift Depot Inc.                   | 0                     |
| 177            | Osaka Souveniers Co.              | 7.27595761418343E-12  |
| 181            | Vitachrome Inc.                   | 0                     |
| 186            | Toys of Finland, Co.              | 1.45519152283669E-11  |
| 187            | AV Stores, Co.                    | -2.91038304567337E-11 |
| 189            | Clover Collections, Co.           | -7.27595761418343E-12 |
| 198            | Auto-Moto Classics Inc.           | -3.63797880709171E-12 |
| 201            | UK Collectables, Ltd.             | 45443.54              |
| 202            | Canadian Gift Exchange Network    | 0                     |
| 204            | Online Mini Collectables          | 0                     |
| 205            | Toys4GrownUps.com                 | 1.45519152283669E-11  |
| 209            | Mini Caravy                       | 0                     |
| 211            | King Kong Collectables, Co.       | 0                     |
| 216            | Enaco Distributors                | 0                     |
| 219            | Boards & Toys Co.                 | 0                     |
| 227            | Heintze Collectables              | 1.45519152283669E-11  |
| 233            | QuÃ©bec Home Shopping Network     | 0                     |
| 239            | Collectable Mini Designs Co.      | 0                     |
| 240            | giftsbymail.co.uk                 | 0                     |
| 242            | Alpha Cognac                      | 7.27595761418343E-12  |
| 249            | Amica Models & Co.                | 0                     |
| 250            | Lyon Souveniers                   | 0                     |
| 256            | Auto AssociÃ©s & Cie.             | 7.27595761418343E-12  |
| 259            | Toms SpezialitÃ¤ten, Ltd          | 0                     |
| 260            | Royal Canadian Collectables, Ltd. | 0                     |
| 276            | Anna's Decorations, Ltd           | 0                     |
| 278            | Rovelli Gifts                     | 0                     |
| 282            | Souveniers And Things Co.         | 42251.51              |
| 286            | Marta's Replicas Co.              | 0                     |
| 298            | Vida Sport, Ltd                   | 0                     |
| 299            | Norway Gifts By Mail, Co.         | 0                     |
| 311            | Oulu Toy Supplies, Inc.           | 0                     |
| 314            | Petit Auto                        | 8597.73               |
| 319            | Mini Classics                     | 0                     |
| 320            | Mini Creations Ltd.               | 1.45519152283669E-11  |
| 321            | Corporate Gift Ideas Co.          | 0                     |
| 323            | Down Under Souveniers, Inc        | -2.91038304567337E-11 |
| 324            | Stylish Desk Decors, Co.          | -1.45519152283669E-11 |

| Query2         |                                    |                       |
|----------------|------------------------------------|-----------------------|
| CUSTOMERNUMBER | CUSTOMERNAME                       | Total_Balance         |
| 328            | Tekni Collectables Inc.            | 43525.04              |
| 333            | Australian Gift Network, Co        | 0                     |
| 334            | Suominen Souveniers                | 1.45519152283669E-11  |
| 339            | Classic Gift Ideas, Inc            | 0                     |
| 344            | CAF Imports                        | 0                     |
| 347            | Men 'R' US Retailers, Ltd.         | 0                     |
| 350            | Marseille Mini Autos               | 0                     |
| 353            | Reims Collectables                 | 0                     |
| 357            | GiftsForHim.com                    | 37769.38              |
| 362            | Gifts4AllAges.com                  | 50806.85              |
| 363            | Online Diecast Creations Co.       | 0                     |
| 379            | Collectables For Less Inc.         | 0                     |
| 381            | Royale Belge                       | 0                     |
| 382            | Salzburg Collectables              | 52420.07              |
| 385            | Cruz & Sons Co.                    | 0                     |
| 386            | L'ordine Souveniers                | 35362.26              |
| 398            | Tokyo Collectables, Ltd            | 0                     |
| 406            | Auto Canal+ Petit                  | 0                     |
| 412            | Extreme Desk Decorations, Ltd      | 23627.44              |
| 415            | Bavarian Collectables Imports, Co. | 0                     |
| 424            | Classic Legends Inc.               | 0                     |
| 447            | Gift Ideas Corp.                   | 0                     |
| 448            | Scandinavian Gift Ideas            | 44167.09              |
| 450            | The Sharp Gifts Warehouse          | 83984.89              |
| 452            | Mini Auto Werke                    | -7.27595761418343E-12 |
| 455            | Super Scale Inc.                   | 0                     |
| 456            | Microscale Inc.                    | 0                     |
| 458            | Corrida Auto Replicas, Ltd         | 0                     |
| 462            | FunGiftIdeas.com                   | 0                     |
| 471            | Australian Collectables, Ltd       | 10945.26              |
| 473            | Frau da Collezione                 | 0                     |
| 475            | West Coast Collectables Co.        | 0                     |
| 484            | Iberia Gift Imports, Corp.         | -7.27595761418343E-12 |
| 486            | Motor Mint Distributors Inc.       | 0                     |
| 487            | Signal Collectibles Ltd.           | 0                     |
| 489            | Double Decker Gift Stores, Ltd     | 0                     |
| 495            | Diecast Collectables               | 0                     |
| 496            | Kelly's Gift Shop                  | 22963.6               |