

Question 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   creditlimit > 100000
AND     country = 'USA';
```

- Result:

Q1. Customers' Names_Addresses_US_CreditLimit>100,000					
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

Question 2. For each customer located in France, show the number of “Shipped” orders.

- SQL:

```
SELECT    c.customername, COUNT(o.status) AS Count_Shipped
FROM      customers c INNER JOIN orders o
          ON c.customernumber = o.customernumber
WHERE     c.country = 'France'
AND       o.status = 'Shipped'
GROUP BY c.customername;
```

- Result:

Q2. Shipped_Count_France_Customer	
customername	Count_Shipped
Alpha Cognac	3
Atelier graphique	3
Auto AssociÃ©s & Cie.	2
Auto Canal+ Petit	3
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

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

- SQL:

```
SELECT  pl.productline, COUNT(p.productline) AS Count_Products,
        ROUND(AVG(p.MSRP), 2) AS Average_MSRP
FROM    productlines pl INNER JOIN products p
        ON pl.productline = p.productline
GROUP BY pl.productline;
```

- Result:

Q3. Products_Count_Average_MSRP_per_Product_Lines		
productline	Count_Products	Average_MSRP
Classic Cars	38	118.02
Motorcycles	13	97.18
Planes	12	89.52
Ships	9	86.56
Trains	3	73.85
Trucks and Buses	11	103.18
Vintage Cars	24	87.1

Question 4. What is the product name, product line and MSRP of the most expensive product?

- SQL:

```
SELECT p.productname, p.productline, p.msrp
FROM   products p
WHERE  p.msrp = (SELECT MAX(p.msrp) FROM products p);
```

- Result:

Q4. Most_Expensive_Product_Name_Line_MSRP		
productname	productline	msrp
1952 Alpine Renault 1300	Classic Cars	214.3

Question 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 c.customername, e.lastname, e.firstname
FROM   (offices o INNER JOIN employees e
        ON o.officecode = e.officecode)
INNER JOIN customers c
        ON e.employeenumber = c.salesrepemployeenumber
WHERE  e.jobtitle = 'Sales Rep'
AND    o.territory = 'EMEA'
AND    c.country = o.country;
```

- Result:

Q5. Same_Country_Customer_Sales_Rep_EMEA		
customername	lastname	firstname
Saveley & Henriot, Co.	Bondur	Loui
La Corne D'abondance, Co.	Bondur	Loui
Lyon Souveniers	Bondur	Loui
Marseille Mini Autos	Bondur	Loui
Reims Collectables	Bondur	Loui
Auto Canal+ Petit	Bondur	Loui
Atelier graphique	Hernandez	Gerard
La Rochelle Gifts	Hernandez	Gerard
Daedalus Designs Imports	Hernandez	Gerard
Mini Caravy	Hernandez	Gerard
Alpha Cognac	Hernandez	Gerard
Auto AssociÃ©s & Cie.	Hernandez	Gerard
AV Stores, Co.	Bott	Larry
UK Collectables, Ltd.	Bott	Larry
giftsbymail.co.uk	Bott	Larry
Stylish Desk Decors, Co.	Bott	Larry
Double Decker Gift Stores, Ltd	Bott	Larry

Question 6. Show the total order amount (quantityordered * priceeach) 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      c.customername, SUM(od.quantityordered*od.priceeach)
           AS Total_Order_Amount
FROM        (orders o INNER JOIN orderdetails od
           ON o.ordernumber = od.ordernumber)
INNER JOIN customers c
           ON o.customernumber = c.customernumber
WHERE       c.country IN ('Finland','Denmark','Sweden')
AND         o.status='Shipped'
GROUP BY    c.customername;
```

- Result:

Q6. Total_Shipped_Order_Amount_Finland_Denmark_Sweden	
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

Question 7. For each Sales Manager, show a count of the number of Sales Reps. that report to them.

- SQL:

```
SELECT    e.lastname, e.firstname,
          COUNT(e.employeenumber) AS Report_Count
FROM      employees e INNER JOIN employees m
          ON e.employeenumber = m.reportsto
WHERE     e.jobtitle LIKE ('*Manager*')
GROUP BY e.lastname, e.firstname;
```

- Result:

Q7. Sales_Reps_Report_Count_to_Sales_Manager		
lastname	firstname	Report_Count
Bondur	Gerard	6
Bow	Anthony	6
Patterson	William	3

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

- SQL:

```
SELECT c.customername, ROUND(o.amt - p.amt, 2) AS Net_Balance
FROM (customers c
      INNER JOIN (SELECT ot.customernumber,
                        SUM(od.quantityordered*od.priceeach) AS amt
                   FROM orders ot
                        INNER JOIN orderdetails od
                        ON ot.ordernumber = od.ordernumber
                   GROUP BY ot.customernumber)
      o ON o.customernumber = c.customernumber)
      INNER JOIN (SELECT customernumber, SUM(amount) AS amt
                   FROM payments
                   GROUP BY customernumber)
      p ON p.customernumber = c.customernumber;
```

- Result:

Q_EC. Order_Amount_Payment_Net_Balance	
customername	Net_Balance
Atelier graphique	0
Signal Gift Stores	0
Australian Collectors, Co.	0
La Rochelle Gifts	41623.44
Baane Mini Imports	0
Mini Gifts Distributors Ltd.	7639.1
Blauer See Auto, Co.	0
Mini Wheels Co.	0
Land of Toys Inc.	41445.21
Euro+ Shopping Channel	104950.56
Volvo Model Replicas, Co	23014.17
Danish Wholesale Imports	21638.62
Saveley & Henriot, Co.	0
Dragon Souvenirs, Ltd.	0
Muscle Machine Inc	0
Diecast Classics Inc.	5849.44
Technics Stores Inc.	0
Handji Gifts& Co	2326.18
Herkku Gifts	0
Daedalus Designs Imports	0
La Corne D'abondance, Co.	0
Cambridge Collectables Co.	0
Gift Depot Inc.	0

Osaka Souvenirs Co.	0
Vitachrome Inc.	0
Toys of Finland, Co.	0
AV Stores, Co.	0
Clover Collections, Co.	0
Auto-Moto Classics Inc.	0
UK Collectables, Ltd.	45443.54
Canadian Gift Exchange Network	0
Online Mini Collectables	0
Toys4GrownUps.com	0
Mini Caravy	0
King Kong Collectables, Co.	0
Enaco Distributors	0
Boards & Toys Co.	0
Heintze Collectables	0
QuÃ©bec Home Shopping Network	0
Collectable Mini Designs Co.	0
giftsbymail.co.uk	0
Alpha Cognac	0
Amica Models & Co.	0
Lyon Souvenirs	0
Auto AssociÃ©s & Cie.	0
Toms SpezialitÃ¤ten, Ltd	0
Royal Canadian Collectables, Ltd.	0
Anna's Decorations, Ltd	0

Rovelli Gifts	0
Souvenirs And Things Co.	42251.51
Marta's Replicas Co.	0
Vida Sport, Ltd	0
Norway Gifts By Mail, Co.	0
Oulu Toy Supplies, Inc.	0
Petit Auto	8597.73
Mini Classics	0
Mini Creations Ltd.	0
Corporate Gift Ideas Co.	0
Down Under Souvenirs, Inc	0
Stylish Desk Decors, Co.	0
Tekni Collectables Inc.	43525.04
Australian Gift Network, Co	0
Suominen Souvenirs	0
Classic Gift Ideas, Inc	0
CAF Imports	0
Men 'R' US Retailers, Ltd.	0
Marseille Mini Autos	0
Reims Collectables	0
GiftsForHim.com	37769.38
Gifts4AllAges.com	50806.85
Online Diecast Creations Co.	0
Collectables For Less Inc.	0
Royale Belge	0

Salzburg Collectables	52420.07
Cruz & Sons Co.	0
L'ordine Souvenirs	35362.26
Tokyo Collectables, Ltd	0
Auto Canal+ Petit	0
Extreme Desk Decorations, Ltd	23627.44
Bavarian Collectables Imports, Co.	0
Classic Legends Inc.	0
Gift Ideas Corp.	0
Scandinavian Gift Ideas	44167.09
The Sharp Gifts Warehouse	83984.89
Mini Auto Werke	0
Super Scale Inc.	0
Microscale Inc.	0
Corrida Auto Replicas, Ltd	0
FunGiftIdeas.com	0
Australian Collectables, Ltd	10945.26
Frau da Collezione	0
West Coast Collectables Co.	0
Iberia Gift Imports, Corp.	0
Motor Mint Distributors Inc.	0
Signal Collectibles Ltd.	0
Double Decker Gift Stores, Ltd	0
Diecast Collectables	0
Kelly's Gift Shop	22963.6

