**Problem: List all customers**

SELECT \*

FROM Customer

**Problem: List the first name, last name, and city of all customers**

SELECT FirstName, LastName, City

FROM Customer

**Problem: List the customers in Sweden**

SELECT Id, FirstName, LastName, City, Country, Phone

FROM Customer

WHERE Country = 'Sweden'

**Problem: Update the city to Sydney for supplier Pavlova, Ltd.**

UPDATE Supplier

SET City = 'Sydney'

WHERE CompanyName = 'Pavlova, Ltd.'

**Problem: Delete all products with unit price higher than $50.**

DELETE FROM Product

WHERE UnitPrice > 50

**Problem: Discontinue products over $50.**

UPDATE Product

SET IsDiscontinued = 1

WHERE UnitPrice > 50

**Problem: Discontinue products over $50.**

UPDATE Product

SET IsDiscontinued = 1

WHERE Id = 46

**Problem: Supplier Norske Meierier (Id = 15) has moved: update their city, phone and fax.**

UPDATE Supplier

SET City = 'Oslo', Phone = '(0)1-953530', Fax = '(0)1-953555'

WHERE Id = 15

**Problem: Delete products over $50.**

DELETE Product

WHERE UnitPrice > 50

**Problem: List all suppliers in alphabetical order**

SELECT CompanyName, ContactName, City, Country

FROM Supplier

ORDER BY CompanyName

**Problem: List all suppliers in reverse alphabetical order**

SELECT CompanyName, ContactName, City, Country

FROM Supplier

ORDER BY CompanyName DESC

**Problem: List all customers ordered by country, then by city within each country  
Ordering by one or more columns is possible.**

SELECT FirstName, LastName, City, Country

FROM Customer

ORDER BY Country, City

**Problem: List top 10 most expensive products**

SELECT TOP 10 Id, ProductName, UnitPrice, Package

FROM Product

ORDER BY UnitPrice DESC

**Problem: Get all but the 10 most expensive products sorted by price**

SELECT Id, ProductName, UnitPrice, Package

FROM Product

ORDER BY UnitPrice DESC

**Problem: List all supplier countries in alphabetical order.**

SELECT DISTINCT Country

FROM Supplier

ORDER BY COUNTRY

**Problem: List all supplier countries in alphabetical order**

SELECT DISTINCT Country

FROM Supplier

ORDER BY COUNTRY

**Problem: Find the cheapest product**

SELECT MIN(UnitPrice)

FROM Product

**Problem: Find the largest order placed in 2014**

SELECT MAX(TotalAmount)

FROM Order

WHERE YEAR(OrderDate) = 2014

**Problem: Find the last order date in 2013**

SELECT MAX(OrderDate)

FROM Order1

WHERE YEAR(OrderDate) = 2013

**Problem: Find the number of customers**

SELECT COUNT(Id)

FROM Customer

**Problem: Compute the total amount sold in 2013**

SELECT SUM(TotalAmount)

FROM Order1

WHERE YEAR(OrderDate) = 2013

**Problem: Compute the total amount sold in 2013**

SELECT AVG(TotalAmount)

FROM Order1

**Problem: Get customer named Thomas Hardy**

SELECT Id, FirstName, LastName, City, Country

FROM Customer

WHERE FirstName = 'Thomas' AND LastName = 'Hardy'

**Problem: List all customers from Spain or France**

SELECT Id, FirstName, LastName, City, Country

FROM Customer

WHERE Country = 'Spain' OR Country = 'France'

**Problem: List all customers that are not from the USA**

SELECT Id, FirstName, LastName, City, Country

FROM Customer

WHERE NOT Country = 'USA'

**Problem: List all orders that not between $50 and $15000**

SELECT Id, OrderDate, CustomerId, TotalAmount

FROM Order1

WHERE NOT (TotalAmount >= 50 AND TotalAmount <= 15000)

ORDER BY TotalAmount DESC

**Problem: List all products between $10 and $20**

SELECT Id, ProductName, UnitPrice

FROM Product

WHERE UnitPrice BETWEEN 10 AND 20

ORDER BY UnitPrice

**Problem: Get the number of orders and amount sold between Jan 1, 2013 and Jan 31, 2013.**

SELECT COUNT(Id), SUM(TotalAmount)

FROM Order1

WHERE OrderDate BETWEEN '1/1/2013' AND '1/31/2013'

**Problem: List all suppliers from the USA, UK, OR Japan**

SELECT Id, CompanyName, City, Country

FROM Supplier

WHERE Country IN ('USA', 'UK', 'Japan')

**Problem**: List all products that are not exactly $10, $20, $30, $40, or $50

SELECT Id, ProductName, UnitPrice

FROM Product

WHERE UnitPrice NOT IN (10,20,30,40,50)

**Problem: List all customers that are from**

**the same countries as the suppliers.**

SELECT Id, FirstName, LastName, Country

FROM Customer

WHERE Country IN

(SELECT Country

FROM Supplier)

**Problem: List all products with names that start with 'Ca'**

SELECT Id, ProductName, UnitPrice, Package

FROM Product

WHERE ProductName LIKE 'Ca%'

**Problem: List all products that start with 'Cha' or 'Chan'**

**and have one more character.**

SELECT Id, ProductName, UnitPrice, Package

FROM Product

WHERE ProductName LIKE 'Cha\_' OR ProductName LIKE 'Chan\_'

**Problem: List all suppliers that do have a fax number**

SELECT Id, CompanyName, Phone, Fax

FROM Supplier

WHERE Fax IS NULL

**Problem: List the number of customers in each country**

SELECT COUNT(Id), Country

FROM Customer

GROUP BY Country

**Problem: List the number of customers in each country**

SELECT COUNT(Id), Country

FROM Customer

GROUP BY Country

ORDER BY COUNT(Id) DESC

**Problem: List the total amount ordered for each customer\***

SELECT SUM(O.TotalPrice), C.FirstName, C.LastName

FROM order1 O JOIN Customer C

ON O.CustomerId = C.Id

GROUP BY C.FirstName, C.LastName

ORDER BY SUM(O.TotalPrice) DESC

**Problem: List the number of customers in each country. Only include countries with more than 10 customers.**

SELECT COUNT(Id), Country

FROM Customer

GROUP BY Country

HAVING COUNT(Id) > 10

**Problem: List the number of customers in each country, except the USA, sorted high to low.  
Only include countries with 9 or more customers.**

SELECT COUNT(Id), Country

FROM Customer

WHERE Country <>'USA' // <> not opt

GROUP BY Country

HAVING COUNT(Id) >= 9

ORDER BY COUNT(Id) DESC

**Problem: List total customers in each country.  
Display results with easy to understand column headers. //Alias**

SELECT COUNT(C.Id) AS TotalCustomers, C.Country AS Nation

FROM Customer C

GROUP BY C.Country

**Problem: List the total amount ordered by customer  
with easy to read column headers\***

SELECT C.Id AS Identifier, C.LastName + ', ' + C.FirstName AS CustomerName,

SUM(O.TotalAmount) AS TotalSpent

FROM order1 O JOIN Customer C ON O.CustomerId = C.Id

GROUP BY C.Id, C.LastName + ', ' + C.FirstName

ORDER BY TotalSpent DESC