```
/* Exercise 1 - Northwind Queries (40 marks: 5 for each question) */
```

```
/* 1.2 List all products stored in bottles. */

SELECT

p.ProductName --Select the product name

FROM Products p -- From the products table

WHERE p.QuantityPerUnit LIKE '%bottle%' -

- The quantity includes the word 'bottle' (Will also include bottles)
```

```
/* 1.3 Repeat question above, but add in the Supplier Name and Country. */

SELECT
    p.ProductName,

    s.CompanyName AS "Company Name", --
Get company name from supplier table, give colum title
    s.Country -- Get country from supplier table
FROM Products p
    INNER JOIN Suppliers s -- Join suppliers table
    ON s.SupplierID = p.SupplierID -- where the supplier ID's match
    WHERE QuantityPerUnit LIKE '%bottle%'
```

```
/* 1.4 Write an SQL Statement that shows how many products there are in each category.

Include Category Name in result set and list the highest number first. */

SELECT

c.CategoryName, -- Get category name from categories table

COUNT(p.CategoryID) AS "Number in Category" --

Get the total number of ID's from products table

FROM Products p

INNER JOIN Categories c ON p.CategoryID = c.CategoryID --

Join the categories table to the products table

GROUP BY c.CategoryName, p.CategoryID --

Group by the category name and ID to make the column sizes match

ORDER BY "Number in Category" DESC -- Order by number of categorys in descending order
```

```
/* 1.5 List all UK employees using concatenation to join their title of courtesy, first nam
e and last name together.
Also include their city of residence */

SELECT

e.TitleOfCourtesy + ' ' + e.FirstName + ' ' + e.LastName AS "Name", -

Get the info required and concatonate

e.City AS "City of Residence"

FROM Employees e -- From employees table
WHERE e.Country = 'UK' -- Only UK Employees
```

```
/* 1.6 List Sales Totals for all Sales Regions (via the Territories table using 4 joins) wi
th a Sales Total greater than
1,000,000. Use rounding or FORMAT to present the numbers. */

SELECT

t.RegionID,
FORMAT(SUM(od.UnitPrice * od.Quantity * (1-od.Discount)),'C2') AS "Total Sales" -
Get the total sales, INCLUDING discount

FROM Territories t
INNER JOIN EmployeeTerritories et ON t.TerritoryID = et.TerritoryID -- Join 1
INNER JOIN Employees e ON et.EmployeeID = e.EmployeeID -- Join 2
INNER JOIN Orders o ON e.EmployeeID = o.EmployeeID -- Join 3
INNER JOIN [Order Details] od ON od.OrderID = o.OrderID -- Join 4

GROUP BY t.RegionID -- Group by due to aggregate
HAVING SUM(od.UnitPrice * od.Quantity * (1-od.Discount)) > 10000000 -
- All values above 1,000,000
```

```
/* 1.7 Count how many Orders have a Freight amount greater than 100.00 and either USA or UK as Ship Country. */

SELECT

COUNT(*) AS "Freight more than 100" -- Get a count
FROM Orders o -- From orders table
WHERE

o.ShipCountry IN ('UK', 'USA') -- Only orders from UK and USA

AND o.Freight > 100 -- Freight over 100
```

```
/* 1.8 Write an SQL Statement to identify the Order Number of the Order with the highest am ount(value) of discount
applied to that order. */

SELECT TOP 1 -- Get the top value
   od.OrderID AS "Order Number with Highest (Value) of Discount" -- Get order ID

FROM [Order Details] od -- From Order Details Table
   GROUP BY od.OrderID -- Group by the order ID

   ORDER BY SUM(od.Discount*od.UnitPrice*od.Quantity) DESC -
- Order by the price in descending order so top value is highest
```

```
/* 2.2 Write SQL statements to add the details of the Spartans in your course to the table you have created. */

INSERT INTO spartan_table
(
    spartan_info,title,first_name,last_name,university_name,course_taken,mark_achieved -
    Insert into the table in THIS order
)
VALUES
(
    'Spartan Info','Mr','Mitul','Dattani','Aston','Maths with Computing','2.1' -
    Info to be entered
);
SELECT * FROM spartan_table; -- Display the table
```



