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USE `HW_4_SQL`;

-- 1. Show a list the Company Name and Country for all Suppliers located in Japan or Germany.

```
SELECT CompanyName, Country
FROM hwSuppliers
WHERE Country = "Japan" OR Country = "Germany";
```

	CompanyName	Country	
►	Tokyo Traders	Japan	
	Mayumi's	Japan	
	Heli Süßwaren GmbH & Co. KG	Germany	
	Plutzer Lebensmittelgroßmärkte AG	Germany	
	Nord-Ost-Fisch Handelsgesellschaft mbH	Germany	

-- 2. Show a list of Product Name, Quantity per Unit and Unit Price for products with a Unit Price less than \$7 but more than \$ 4.

```
SELECT ProductName, QuantityPerUnit, UnitPrice
FROM hwProducts
WHERE UnitPrice > 4 AND UnitPrice < 7;
```

	ProductName	QuantityPerUnit	UnitPrice	
►	Konbu	2 kg box	6.00	
	Guaraná Fantástica	12 - 355 ml cans	4.50	

-- 3. Show a list of Company Name, City and Country for Customers whose Country is USA and City is Portland OR Country is Canada and City is Vancouver.

```
SELECT CompanyName, City, Country
FROM hwCustomers
WHERE (Country = "USA" AND City = "Portland") OR (Country = "Canada" AND City = "Vancouver");
```

	CompanyName	City	Country	
►	Laughing Bacchus Wine Cellars	Vancouver	Canada	
	Lonesome Pine Restaurant	Portland	USA	
	The Big Cheese	Portland	USA	

-- 4. Show a list the Contact Name and Contact Title for all Suppliers with a SupplierID from 5 to 8 (inclusive) and sort in descending order by ContactName.

```
SELECT ContactName, ContactTitle
FROM hwSuppliers
WHERE SupplierID >= 5 AND SupplierID <= 8
ORDER BY ContactName DESC;
```

	ContactName	ContactTitle	
►	Peter Wilson	Sales Representative	
	Mayumi Ohno	Marketing Representative	
	Ian Devling	Marketing Manager	
	Antonio del Valle Saavedra	Export Administrator	

-- 5. Show a product name and unit price of the least expensive Products (i.e. lowest unit price)? You MUST use a Sub Query.

```
SELECT ProductName, UnitPrice
FROM hwProducts
WHERE UnitPrice = (SELECT MIN(UnitPrice) FROM hwProducts)
GROUP BY ProductName, UnitPrice;
```

	ProductName	UnitPrice	
►	Geitost	2.50	

-- 6. Display Order Count by their Ship Country for all except USA between May 4th and 10th 2015 whose Order Count is greater than 3.

```
SELECT ShipCountry, COUNT(ShipCountry) AS 'Order Count'
FROM hwOrders
WHERE ShipCountry <> "USA" AND ShippedDate BETWEEN '2015/05/04' AND
'2015/05/10'
GROUP BY ShipCountry
HAVING COUNT(ShipCountry) > 3;
```

	ShipCountry	Order Count	
►	Brazil	4	
	Venezuela	4	

-- 7. Show a list of all employees with their first name, last name and hiredate (formatted to mm/dd/yyyy) who are NOT living in the USA and have been employed for at least 5 years.

```
SELECT FirstName, LastName, DATE_FORMAT(HireDate, "%m/%d/%Y") AS "Date"
FROM hwEmployees
WHERE Country <> "USA" AND HireDate <= date_sub(current_date(), interval 5 year);
```

	FirstName	LastName	Date	
▶	Steven	Buchanan	10/17/2013	
	Michael	Suyama	10/17/2011	
	Robert	King	09/02/2012	
	Anne	Dodsworth	11/15/2004	

-- 8. Show a list of Product Name and their 'Inventory Value' (Inventory Value = units in stock multiplied by their unit price) for products whose 'Inventory Value' is over 3000 but less than 4000.

```
SELECT ProductName, (UnitPrice * UnitsInStock) AS 'Inverntory Value'
FROM hwProducts
WHERE (UnitPrice * UnitsInStock) > 3000 AND (UnitPrice * UnitsInStock) < 4000;
```

	ProductName	Inverntory Val...	
▶	Queso Manchego La Pastora	3268.00	
	Sir Rodney's Marmalade	3240.00	
	Sirop d'érable	3220.50	

-- 9. Show a list of Products' product Name, Unit in Stock and ReorderLevel level whose Product Name starts with 'S' that are currently in stock (i.e. at least one Unit in Stock) and inventory level is at or below the reorder level.

```
SELECT ProductName, UnitsInStock, ReorderLevel
FROM hwProducts
WHERE ProductName LIKE "S%" AND UnitsInStock > 0 AND UnitsInStock <=
ReorderLevel;
```

	ProductName	UnitsInStock	ReorderLevel	
▶	Sir Rodney's Scones	3	5	
	Scottish Longbreads	6	15	

-- 10. Show a Product Name, Unit Price for all products, whose Quantity Per Unit has/measure in 'box' that have been discontinued (i.e. discontinued = 1).

```
SELECT ProductName, UnitPrice, QuantityPerUnit, Discontinued
FROM hwProducts
WHERE QuantityPerUnit LIKE "%box%" AND Discontinued = 1;
```

	ProductName	UnitPrice	QuantityPerU...	Discontinued	
►	Chef Anton's Gumbo Mix	21.35	36 boxes	1	

-- 11. Show a list of Product Name and their TOTAL inventory value (inventory value = UnitsInStock * UnitPrice) for Supplier's Country from Japan.

```
SELECT ProductName, (UnitsInStock * UnitPrice) AS TOTAL
FROM hwProducts P
JOIN hwSuppliers S ON (P.SupplierID = S.SupplierID)
WHERE S.Country = 'Japan';
```

	ProductName	TOTAL	
►	Mishi Kobe Niku	2813.00	
	Ikura	961.00	
	Konbu	144.00	
	Tofu	813.75	
	Genen Shouyu	604.50	
	Longlife Tofu	40.00	

-- 12. Show a list country and their customer's count that is greater than 8.

```
SELECT Country, COUNT(CustomerID) AS 'Customer Count'
FROM hwCustomers
GROUP BY Country
HAVING COUNT(CustomerID) > 8;
```

	Country	Customer Count	
►	Germany	11	
	Brazil	9	
	USA	13	

-- 13. Show a list of Orders' Ship Country, Ship City and their Order count for Ship Country 'Austria' and 'Argentina'.

```
SELECT ShipCountry, ShipCity, COUNT(OrderID) AS "Order count"
FROM hwOrders
GROUP BY ShipCountry, ShipCity
HAVING ShipCountry = "Austria" OR ShipCountry = "Argentina";
```

	ShipCountry	ShipCity	Order count	
▶	Austria	Graz	30	
	Austria	Salzburg	10	
	Argentina	Buenos Aires	16	

-- 14. Show a list of Supplier's Company Name and Product's Product Name for supplier's country from Spain.

```
SELECT S.CompanyName, P.ProductName
FROM hwSuppliers S
JOIN hwProducts P ON (P.SupplierID = S.SupplierID)
WHERE S.Country = "Spain";
```

	CompanyName	ProductName	
▶	Cooperativa de Quesos 'Las Cabras'	Queso Cabrales	
	Cooperativa de Quesos 'Las Cabras'	Queso Manchego La Pastora	

-- 15. What is the 'Average Unit Price' (rounded to two decimal places) of all the products whose ProductName ends with 'T'?

```
SELECT ROUND(AVG(UnitPrice),2)
FROM hwProducts
WHERE ProductName LIKE "%T";
```

	ROUND(AVG(UnitPrice),...	
▶	39.42	

-- 16. Show a list of employee's full name (i.e. firstname, lastname), title and their Order count for employees who has more than 120 orders.

```
SELECT CONCAT(E.FirstName, " ", E.LastName) AS "Full Name", E.Title, COUNT(O.OrderID) AS "Order Count"
```

```
FROM hwEmployees E
```

```
JOIN hwOrders O on (E.EmployeeID = O.EmployeeID)
```

```
GROUP BY E.FirstName, E.LastName, E.Title
```

```
HAVING COUNT(O.OrderID) > 120;
```

	Full Name	Title	Order Count	
►	Margaret Peacock	Sales Representative	156	
	Janet Leverling	Sales Representative	127	
	Nancy Davolio	Sales Representative	123	

-- 17. Show a list customer's company Name and their country who has NO Orders on file (i.e. NULL Orders).

```
SELECT C.CompanyName, C.Country
```

```
FROM hwCustomers C
```

```
LEFT JOIN hwOrders O ON (C.CustomerID = O.CustomerID)
```

```
WHERE O.CustomerID = NULL;
```

	CompanyName	Country	

-- 18. Show a list of Category Name and Product Name for all products that are currently out of stock (i.e. UnitsInStock = 0).

```
SELECT C.CategoryName, P.ProductName
FROM hwCategories C
INNER JOIN hwProducts P ON (C.CategoryID = P.CategoryID)
WHERE P.UnitsInStock = 0;
```

	CategoryName	ProductName	
►	Condiments	Chef Anton's Gumbo Mix	
	Meat/Poultry	Alice Mutton	
	Meat/Poultry	Thüringer Rostbratwurst	
	Dairy Products	Gorgonzola Telino	
	Meat/Poultry	Perth Pasties	

-- 19. Show a list of products' Product Name and Quantity Per Unit, which are measured in 'pkg' or 'pkgs' or 'jars' for a supplier's country from Japan.

```
SELECT P.ProductName, P.QuantityPerUnit
FROM hwProducts P
INNER JOIN hwSuppliers S ON (P.SupplierID = S.SupplierID)
WHERE (QuantityPerUnit LIKE "%pkg%" OR QuantityPerUnit LIKE "%jars%") AND
S.Country = "Japan";
```

	ProductName	QuantityPerUnit	
►	Mishi Kobe Niku	18 - 500 g pkgs.	
	Ikura	12 - 200 ml jars	
	Tofu	40 - 100 g pkgs.	
	Longlife Tofu	5 kg pkg.	

-- 20. Show a list of customer's company name, their Order's ship name and total value of all their orders (rounded to 2 decimal places) for customer's from Mexico. (value of order = (UnitPrice multiplied by Quantity) less discount).

```
SELECT C.CompanyName, O.ShipName, ROUND((UnitPrice * Quantity) - Discount,2) AS Total
FROM hwCustomers C
INNER JOIN hwOrders O ON (C.CustomerID = O.CustomerID)
INNER JOIN hwOrderDetails D ON (O.OrderID = D.OrderID);
```

CompanyName	ShipName	Total	
Wilman Kala	Vins et alcools Chevalier	174.00	
Tradicao Hipermercados	Toms Spezialitäten	167.40	
Tradicao Hipermercados	Toms Spezialitäten	1696.00	
Hanari Carnes	Hanari Carnes	77.00	
Hanari Carnes	Hanari Carnes	1483.85	
Hanari Carnes	Hanari Carnes	251.85	
Victuailles en stock	Victuailles en stock	100.75	
Victuailles en stock	Victuailles en stock	233.95	
Victuailles en stock	Victuailles en stock	336.00	
Suprêmes delices	Suprêmes délices	2591.95	
Suprêmes delices	Suprêmes délices	49.95	
Suprêmes delices	Suprêmes délices	1088.00	
Hanari Carnes	Hanari Carnes	200.00	
Hanari Carnes	Hanari Carnes	604.80	
Hanari Carnes	Hanari Carnes	640.00	
Chop-suey Chinese	Chop-suey Chinese	53.85	

-- 21. Show a list of products' Product Name and suppliers' Region whose product name starts with 'L' and Region is NOT blank/empty.

```
SELECT P.ProductName, S.Region
FROM hwProducts P
INNER JOIN hwSuppliers S ON (P.SupplierID = S.SupplierID)
WHERE P.ProductName LIKE "L%" AND S.Region <> "";
```

ProductName	Region	
▶ Louisiana Fiery Hot Pepper Sauce	LA	
Louisiana Hot Spiced Okra	LA	
Laughing Lumberjack Lager	OR	

-- 22. Show a list of Order's Ship Country, Ship Name and Order Date (formatted as MonthName and Year, e.g. March 2015) for all Orders from 'Versailles' Ship City whose Customer's record doesn't exists in Customer table.

```
SELECT O.ShipCountry, O.ShipName, DATE_FORMAT(O.OrderDate, "%M %Y" ) AS "Date"
      FROM hwOrders O
      LEFT JOIN hwCustomers C ON (C.CustomerID = O.CustomerID)
      WHERE C.CustomerID = NULL AND O.ShipCity = 'Versailles';
```

	ShipCountry	ShipName	Date	

-- 23. Show a list of products' Product Name and Units In Stock whose Product Name starts with 'F' and Rank them based on UnitsInStock from highest to lowest (i.e. highest UnitsInStock rank = 1, and so on). Display rank number as well.

```
SELECT ProductName, UnitsInStock,
      RANK () OVER (
        ORDER BY UnitsInStock DESC
      ) ranking
      FROM hwProducts
      WHERE ProductName LIKE "F%";
```

	ProductName	UnitsInStock	ranking	
►	Filo Mix	38	1	
	Flotemysost	26	2	

-- 24. Show a list of products' Product Name and Unit Price for ProductID from 1 to 5 (inclusive) and Rank them based on UnitPrice from lowest to highest. Display rank number as well.

```
SELECT ProductName, UnitPrice,
       RANK () OVER (
           ORDER BY UnitPrice
       ) ranking
FROM hwProducts
WHERE ProductID BETWEEN 1 AND 5;
```

	ProductName	UnitPrice	ranking	
►	Aniseed Syrup	10.00	1	
	Chai	18.00	2	
	Chang	19.00	3	
	Chef Anton's Gumbo Mix	21.35	4	
	Chef Anton's Cajun Seasoning	22.00	5	

-- 25. Show a list of employees' first name, last name, country and date of birth (formatted to mm/dd/yyyy) who were born after 1984 and Rank them by date of birth (oldest employee rank 1st, and so on) for EACH country, i.e. Rank number should reset/restart for EACH country.

```
SELECT FirstName, LastName, Country, DATE_FORMAT(BirthDate, "%m/%d/%Y"),
       RANK () OVER (
           PARTITION BY Country
           ORDER BY BirthDate
       ) ranking
FROM hwEmployees
WHERE BirthDate >= '1984/01/01';
```

	FirstName	LastName	Country	DATE_FORMAT(BirthDate, "%m/%d/%...	ranking	
►	Steven	Buchanan	UK	03/04/1985	1	
	Robert	King	UK	05/29/1990	2	
	Margaret	Peacock	USA	09/19/1987	1	
	Laura	Callahan	USA	01/09/1988	2	