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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";

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-- 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;

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-- 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");

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-- 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;

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-- 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;

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-- 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;

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-- 7. Show a list of all employees with their first name, last name and hiredate (formated 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);

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-- 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;

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-- 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;

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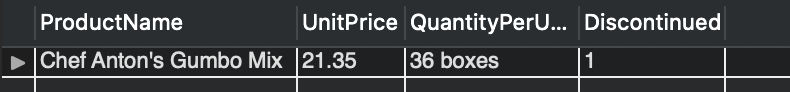
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-- 10. Show a Product Name, Unit Price for all products, whose Quantity Per Unit has/measure in 'box' that have been discontinued (i.e. discontinued = 1).

SELECT ProductName, UnitPrice, QuantityPerUnit, Discontinued

FROM hwProducts

WHERE QuantityPerUnit LIKE "%box%" AND Discontinued = 1;



-- 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';

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-- 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;

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-- 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";

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-- 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";

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-- 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";

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-- 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;

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-- 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;

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-- 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;

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-- 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";

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-- 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);

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-- 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 <> "";

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-- 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';

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-- 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%";

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-- 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;

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-- 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';

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