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1  # Homework 4 SQL
2  # Sahib Bajwa
3
4  # Question 1
5  • SELECT CompanyName, Country FROM hwsuppliers WHERE Country = 'Japan' OR Country = 'Germany';
6
7  # Question 2
8  • SELECT ProductName, QuantityPerUnit, UnitPrice FROM hwproducts WHERE UnitPrice > 4 AND UnitPrice < 7;
9  # Select ProductName, QuantityPerUnit, UnitPrice FROM hwproducts;
10
11 # Question 3
12 • SELECT CompanyName, ContactTitle, City FROM hwcustomers WHERE (Country = 'USA' AND City = 'Portland') OR (Country = 'Canada' AND City = 'Vancouver');
13
14 # Question 4
15 • SELECT ContactName, ContactTitle FROM hwsuppliers WHERE SupplierID > 5 OR SupplierID <= 8 ORDER BY ContactName DESC;
16
17 # Question 5
18 • SELECT ProductName, UnitPrice FROM hwproducts WHERE UnitPrice IN (SELECT MIN(UnitPrice) FROM hwproducts);
19 # SELECT ProductName, UnitPrice FROM hwproducts WHERE UnitPrice IN (SELECT UnitPrice FROM hwproducts) ORDER BY UnitPrice ASC;
20
21 # Question 6
22 • SELECT ShipCountry, count(ShipCountry) FROM hworders WHERE ShipCountry != 'USA' AND OrderDate > '2015-04-05' AND OrderDate < '2015-05-05';
23
24 # Question 7
25 • SELECT FirstName, LastName, date_format(HireDate, "%m/%d/%Y") AS Date FROM hmployees WHERE Country != 'USA' AND (YEAR(curdate()) - YEAR(HireDate) >= 5);
26
27 # Question 8
28 • SELECT ProductName, (UnitsInStock * UnitPrice) AS InventoryValue FROM hwproducts WHERE (UnitsInStock * UnitPrice) > 3000 AND (UnitsInStock * UnitPrice) < 4000;
29
30 # Question 9
31 • SELECT ProductName, UnitsInStock, ReorderLevel FROM hwproducts WHERE ProductName LIKE '%S%' AND UnitsInStock > 0 AND UnitsInStock <= ReorderLevel;
32
33 # Question 10
34 • SELECT ProductName, UnitPrice FROM hwproducts WHERE QuantityPerUnit LIKE '%box%' AND Discontinued = 1;
35
36 # Question 11
37 • SELECT ProductName, (UnitsInStock * UnitPrice) AS InventoryValue FROM hwproducts INNER JOIN hwsuppliers ON hwproducts.SupplierID = hwsuppliers.SupplierID WHERE Country = 'Japan';
38
39 # Question 12
40 • SELECT Country, Count(*) as CountryCount FROM hwcustomers GROUP BY Country HAVING Count(*) > 8;
41
42 # Question 13
43 • SELECT ShipCountry, ShipCity, Count(*) as OrderCount FROM hworders WHERE ShipCountry = 'Austria' OR ShipCountry = 'Argentina' GROUP BY ShipCountry;
44
45 # Question 14
46 • SELECT hwsuppliers.CompanyName, hwproducts.ProductName FROM hwsuppliers INNER JOIN hwproducts ON hwsuppliers.SupplierID = hwproducts.SupplierId WHERE hwsuppliers.Country = 'Spain';
47
48 # Question 15
49 • SELECT AVG(UnitPrice) FROM hwproducts WHERE ProductName LIKE '%T';
50
51 # Question 16
52 • SELECT Count(*) as OrderCount, hmployees.FirstName, hmployees.LastName, hmployees.Title FROM hworders INNER JOIN hmployees ON hworders.EmployeeID = hmployees.EmployeeID
53   GROUP BY hmployees.FirstName HAVING Count(*) > 120;
54
55 # Question 17
56 • SELECT Count(*) as OrderCount, hwcustomers.CompanyName, hwcustomers.Country FROM hworders INNER JOIN hwcustomers ON hworders.CustomerID = hwcustomers.CustomerID GROUP BY hwcustomers.CompanyName
57   HAVING Count(*) IS NULL OR Count(*) = 0;
58 #SELECT CompanyName, Country, hworders.OrderID FROM hwcustomers INNER JOIN hworders ON hwcustomers.CustomerID = hworders.CustomerID;
59 # I cannot find a CompanyName that does not have an OrderId, so I assume there is no company that has no orders on file.
60
61 # Question 18
62 • SELECT ProductName, hwcategories.CategoryName FROM hwproducts INNER JOIN hwcategories ON hwproducts.CategoryID = hwcategories.CategoryID WHERE UnitsInStock = 0 GROUP BY ProductName;
63
64 # Question 19
65 • SELECT ProductName, QuantityPerUnit, hwsuppliers.Country FROM hwproducts INNER JOIN hwsuppliers ON hwproducts.SupplierID = hwsuppliers.SupplierID
66   WHERE (QuantityPerUnit LIKE '%pkg%' OR QuantityPerUnit LIKE '%pkgs%' OR QuantityPerUnit LIKE '%jars%') AND hwsuppliers.Country = 'Japan';
67
68 # Question 20
69 # hwcustomers (CompanyName, Country) ||| hworders (ShipName) ||| hworderdetails (Unit Price, Quantity, Discount)
70 • SELECT hwcustomers.CompanyName, ShipName, (UnitPrice * Quantity * Discount) AS TotalValue
71   FROM hworders
72   INNER JOIN hwcustomers ON hworders.CustomerID = hwcustomers.CustomerID
73   INNER JOIN hworderdetails ON hworders.OrderID = hworderdetails.OrderID
74   WHERE hwcustomers.Country = 'Mexico';
75
76 # Question 21
77 • SELECT ProductName, hwsuppliers.Region FROM hwproducts INNER JOIN hwsuppliers ON hwproducts.SupplierID = hwsuppliers.SupplierID WHERE ProductName LIKE 'L%' AND hwsuppliers.Region <> '';
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79 # Question 22
80 • SELECT ShipCountry, ShipName, CONCAT(monthname(OrderDate), " ", year(OrderDate)) AS OrderDate FROM hworders WHERE ShipCity = 'Versailles' AND NOT EXISTS (SELECT * FROM hwcustome
81 WHERE hwcustome.CustomerId = hworders.CustomerID);
82
83 # Question 23
84 • SELECT ProductName, UnitsInStock,
85     RANK() OVER (
86         ORDER BY UnitsInStock DESC
87     ) AS 'Rank'
88     FROM hwproducts WHERE ProductName LIKE 'F%';
89
90 # Question 24
91 • SELECT ProductName, UnitPrice,
92     RANK() OVER(
93         ORDER BY UnitPrice DESC
94     ) AS 'Rank'
95     FROM hwproducts WHERE ProductID >= 1 AND ProductID <= 5;
96
97 # Question 25
98 • SELECT FirstName, LastName, Country, date_format(BirthDate, "%m/%d/%Y") as 'Date Of Birth',
99     RANK() OVER (
100         PARTITION BY Country
101         ORDER BY BirthDate DESC
102     ) AS 'Rank'
103     FROM hmployees WHERE year(BirthDate) > 1984;
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