

/*Homework 4*/

/*Purna Sengupta*/

USE HW_4_SQL;

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

```
SELECT CompanyName, Country
FROM hwSuppliers
WHERE Country IN ('Japan', 'Germany');
```

/*2. Show a list of Products' 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 BETWEEN 4 AND 7;
```

/*3. Show a list of Customers' Company Name, Contact Title and City whose Country is USA and City

is Portland OR Country is Canada and City is Vancouver.*/

```
SELECT CompanyName, ContactTitle, City
FROM hwCustomers
WHERE Country = 'USA' AND City = 'Portland' OR Country = 'Canada' AND City = 'Vancouver';
```

/*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 BETWEEN 5 AND 8
ORDER BY ContactName DESC;
```

/*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);
```

/*6. Show a list of Ship Country and their Order Counts that is shipped outside the USA between

May 4th and 5th 2015.*/

```
SELECT ShipCountry, COUNT(OrderID) AS Orders
FROM hwOrders
```

```
WHERE ShippedDate BETWEEN '2015-05-04' AND '2015-05-05'  
AND ShipCountry != 'USA'  
GROUP BY ShipCountry;
```

```
/*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, HireDate  
FROM hwEmployees  
WHERE Country != 'USA'  
AND (YEAR(CURRENT_TIMESTAMP()) - YEAR(HireDate)) > 5;
```

```
/*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, UnitsInStock * UnitPrice AS InventoryValue  
FROM hwProducts  
WHERE (UnitsInStock * UnitPrice) BETWEEN 3000 AND 4000;
```

```
/*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 BETWEEN 1 AND ReorderLevel);
```

```
/*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  
FROM hwProducts  
WHERE (LOCATE('box', QuantityPerUnit) 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 InventoryValue  
FROM hwProducts  
INNER JOIN hwSuppliers ON hwProducts.SupplierID = hwSuppliers.SupplierID
```

```
WHERE hwSuppliers.Country = 'Japan';
```

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

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

```
/*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 OrderCount  
FROM hwOrders  
WHERE ShipCountry IN ('Austria', 'Argentina')  
GROUP BY OrderID;
```

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

```
SELECT CompanyName, hwProducts.ProductName  
FROM hwSuppliers  
INNER JOIN hwProducts ON hwSuppliers.SupplierID = hwProducts.SupplierID  
WHERE Country = 'Spain';
```

```
/*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) AS AvgUnitPrice  
FROM hwProducts  
WHERE ProductName LIKE '%T';
```

```
/*16. Show a list of employee's full name, title and their Order count for employees who has  
more than 120 orders.*/
```

```
SELECT CONCAT(hwEmployees.FirstName, ' ', hwEmployees.LastName) AS Employee,  
hwEmployees.Title, COUNT(hwOrders.OrderID) AS OrderCount  
FROM hwEmployees, hwOrders  
WHERE hwEmployees.EmployeeID = hwOrders.EmployeeID  
GROUP BY hwEmployees.EmployeeID  
HAVING COUNT(hwOrders.OrderID) > 120;
```

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

```
SELECT CompanyName, Country
FROM hwCustomers
WHERE CustomerID NOT IN (SELECT CustomerID FROM hwOrders);
```

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

```
SELECT hwCategories.CategoryName, hwProducts.ProductName
FROM hwCategories, hwProducts
WHERE hwCategories.CategoryID = hwProducts.CategoryID
AND hwProducts.UnitsInStock = 0;
```

/*19. Show a list of products' Product Name and Quantity Per Unit, which are measured as 'pkg' or 'pkgs' or

'jars' for a supplier's country from Japan.*/

```
SELECT ProductName, QuantityPerUnit
FROM hwProducts
LEFT JOIN hwSuppliers ON hwSuppliers.SupplierID = hwProducts.SupplierID
WHERE (LOCATE('pkg', hwProducts.QuantityPerUnit) OR LOCATE('pkgs',
hwProducts.QuantityPerUnit) OR LOCATE('jars', hwProducts.QuantityPerUnit))
AND hwSuppliers.Country = 'Japan';
```

/*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 hwCustomers.CompanyName, hwOrders.ShipName AS ShipName,
       ROUND((hwOrderDetails.UnitPrice * hwOrderDetails.Quantity),2) AS OrderValue
FROM hwCustomers, hwOrders, hwOrderDetails
WHERE hwCustomers.CustomerID = hwOrders.CustomerID
AND hwOrders.OrderID = hwOrderDetails.OrderID
AND hwCustomers.Country IN ('Mexico');
```

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

```
SELECT hwProducts.ProductName, hwSuppliers.Region
FROM hwProducts
INNER JOIN hwSuppliers ON hwSuppliers.SupplierID = hwProducts.SupplierID
WHERE hwSuppliers.Region IS NOT NULL AND hwProducts.ProductName LIKE 'L%';
```

/*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 ShipCountry, ShipName, CONCAT(MONTHNAME(OrderDate), ' ', YEAR(OrderDate)) AS OrderDate
FROM hwOrders, hwCustomers
WHERE ShipCity = 'Versailles'
AND hwOrders.CustomerID != hwCustomers.CustomerID;

/*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) AS Ranking
FROM hwProducts
WHERE ProductName LIKE 'F%';

/*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 ASC) AS Ranking
FROM hwProducts
WHERE ProductID BETWEEN 1 and 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, LastHName, Country, CONVERT(datetime, Birthdate, 101) AS DOB
FROM hwEmployees
WHERE DOB > '1/1/1984';

Answers:

Preparing...

Importing hw4answers.sql...

Finished executing script

CompanyName Country

Tokyo Traders Japan

Mayumi's Japan

Heli Süßwaren GmbH & Co. KG Germany

Plutzer Lebensmittelgroßmärkte AG Germany

Nord-Ost-Fisch Handelsgesellschaft mbH Germany

ProductName QuantityPerUnit UnitPrice

Konbu 2 kg box 6.00

Guaraná Fantástica 12 - 355 ml cans 4.50

Filo Mix 16 - 2 kg boxes 7.00

CompanyName ContactTitle City

Laughing Bacchus Wine Cellars Marketing Assistant Vancouver

Lonesome Pine Restaurant Sales Manager Portland

The Big Cheese Marketing Manager Portland

ContactName ContactTitle

Peter Wilson Sales Representative

Mayumi Ohno Marketing Representative

Ian Devling Marketing Manager

Antonio del Valle Saavedra Export Administrator

ProductName UnitPrice

Geitost 2.50

ShipCountry Orders

Brazil 2

Sweden 1

Venezuela 1

Italy 1

FirstName LastName HireDate

Steven Buchanan 2013-10-17 00:00:00

Michael Suyama 2011-10-17 00:00:00

Robert King 2012-09-02 00:00:00

Anne Dodsworth 2004-11-15 00:00:00

ProductName InventoryValue

Grandma's Boysenberry Spread 3000.00

Queso Manchego La Pastora 3268.00

Sir Rodney's Marmalade 3240.00

Sirop d'érable 3220.50

ProductName UnitsInStock ReorderLevel

Sir Rodney's Scones 3 5

Scottish Longbreads 6 15

ProductName UnitPrice

Chef Anton's Gumbo Mix	21.35		
ProductName	InventoryValue		
Mishi Kobe Niku	2813.00		
Ikura	961.00		
Konbu	144.00		
Tofu	813.75		
Genen Shouyu	604.50		
Longlife Tofu	40.00		
Country	Customers		
Germany	11		
Brazil	9		
USA	13		
ShipCountry	ShipCity	OrderCount	
Austria Graz	1		
Austria Graz	1		
Austria Graz	1		
Austria Salzburg	1		
Austria Graz	1		
Austria Graz	1		
Austria Graz	1		
Austria Salzburg	1		
Austria Graz	1		
Austria Graz	1		
Argentina	Buenos Aires	1	
Austria Salzburg	1		
Austria Graz	1		
Austria Graz	1		
Argentina	Buenos Aires	1	
Austria Salzburg	1		
Austria Graz	1		
Argentina	Buenos Aires	1	
Austria Salzburg	1		
Argentina	Buenos Aires	1	
Austria Graz	1		
Austria Graz	1		
Austria Salzburg	1		
Austria Graz	1		
Austria Graz	1		
Austria Salzburg	1		
Austria Graz	1		
Argentina	Buenos Aires	1	
Austria Salzburg	1		
Austria Graz	1		
Austria Graz	1		

Austria Graz	1	
Austria Graz	1	
Argentina	Buenos Aires	1
Austria Graz	1	
Argentina	Buenos Aires	1
Argentina	Buenos Aires	1
Austria Graz	1	
Austria Salzburg	1	
Austria Graz	1	
Argentina	Buenos Aires	1
Austria Graz	1	
Argentina	Buenos Aires	1
Argentina	Buenos Aires	1
Argentina	Buenos Aires	1
Argentina	Buenos Aires	1
Austria Graz	1	
Austria Graz	1	
Argentina	Buenos Aires	1
Austria Graz	1	
Austria Graz	1	
Austria Graz	1	
Argentina	Buenos Aires	1
Austria Salzburg	1	
Argentina	Buenos Aires	1
Austria Graz	1	
CompanyName	ProductName	
Cooperativa de Quesos 'Las Cabras'	Queso Cabrales	
Cooperativa de Quesos 'Las Cabras'	Queso Manchego La Pastora	
AvgUnitPrice		
39.42		
Employee	Title	OrderCount
Margaret Peacock	Sales Representative	156
Janet Leverling	Sales Representative	127
Nancy Davolio	Sales Representative	123
CompanyName	Country	
FISSA Fabrica Inter. Salchichas S.A.	Spain	
Paris specialites	France	
CategoryName	ProductName	
Condiments	Chef Anton's Gumbo Mix	
Meat/Poultry	Alice Mutton	
Meat/Poultry	Thüringer Rostbratwurst	
Dairy Products	Gorgonzola Telino	
Meat/Poultry	Perth Pasties	
ProductName	QuantityPerUnit	

Mishi Kobe Niku 18 - 500 g pkgs.

Ikura 12 - 200 ml jars

Tofu 40 - 100 g pkgs.

Longlife Tofu 5 kg pkg.

CompanyName	ShipName	OrderValue
Centro comercial Moctezuma	Centro comercial Moctezuma	80.00
Centro comercial Moctezuma	Centro comercial Moctezuma	20.80
Tortuga Restaurante	Tortuga Restaurante	372.00
Tortuga Restaurante	Tortuga Restaurante	48.00
Tortuga Restaurante	Tortuga Restaurante	600.00
Tortuga Restaurante	Tortuga Restaurante	36.00
Tortuga Restaurante	Tortuga Restaurante	175.50
Tortuga Restaurante	Tortuga Restaurante	37.20
Tortuga Restaurante	Tortuga Restaurante	480.00
Tortuga Restaurante	Tortuga Restaurante	440.00
Tortuga Restaurante	Tortuga Restaurante	34.40
Ana Trujillo Emparedados y helados	Ana Trujillo Emparedados y helados	28.80
Ana Trujillo Emparedados y helados	Ana Trujillo Emparedados y helados	60.00
Tortuga Restaurante	Tortuga Restaurante	249.60
Tortuga Restaurante	Tortuga Restaurante	509.60
Tortuga Restaurante	Tortuga Restaurante	432.00
Pericles Comidas clásicas	Pericles Comidas clásicas	112.00
Pericles Comidas clásicas	Pericles Comidas clásicas	172.80
Pericles Comidas clásicas	Pericles Comidas clásicas	396.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	403.20
Pericles Comidas clásicas	Pericles Comidas clásicas	223.20
Pericles Comidas clásicas	Pericles Comidas clásicas	655.20
Pericles Comidas clásicas	Pericles Comidas clásicas	308.70
Pericles Comidas clásicas	Pericles Comidas clásicas	62.00
Pericles Comidas clásicas	Pericles Comidas clásicas	199.50
Pericles Comidas clásicas	Pericles Comidas clásicas	196.80
Pericles Comidas clásicas	Pericles Comidas clásicas	420.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	690.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	191.25
Tortuga Restaurante	Tortuga Restaurante	22.50
Tortuga Restaurante	Tortuga Restaurante	3952.50
Tortuga Restaurante	Tortuga Restaurante	175.05
Antonio Moreno Taqueria	Antonio Moreno Taquería	1050.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	184.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	97.50
Antonio Moreno Taqueria	Antonio Moreno Taquería	825.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	702.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	560.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	820.00

Tortuga Restaurante	Tortuga Restaurante	180.00
Tortuga Restaurante	Tortuga Restaurante	250.00
Tortuga Restaurante	Tortuga Restaurante	408.45
Ana Trujillo Emparedados y helados	Ana Trujillo Emparedados y helados	69.75
Ana Trujillo Emparedados y helados	Ana Trujillo Emparedados y helados	70.00
Ana Trujillo Emparedados y helados	Ana Trujillo Emparedados y helados	340.00
Tortuga Restaurante	Tortuga Restaurante	62.00
Tortuga Restaurante	Tortuga Restaurante	64.40
Tortuga Restaurante	Tortuga Restaurante	408.45
Antonio Moreno Taqueria	Antonio Moreno Taquería	936.90
Antonio Moreno Taqueria	Antonio Moreno Taquería	20.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	75.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	68.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	232.50
Ana Trujillo Emparedados y helados	Ana Trujillo Emparedados y helados	320.00
Tortuga Restaurante	Tortuga Restaurante	315.00
Tortuga Restaurante	Tortuga Restaurante	230.00
Tortuga Restaurante	Tortuga Restaurante	250.00
Tortuga Restaurante	Tortuga Restaurante	180.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	380.00
Antonio Moreno Taqueria	Antonio Moreno Taquería	280.00
Tortuga Restaurante	Tortuga Restaurante	390.00
Tortuga Restaurante	Tortuga Restaurante	75.00
Tortuga Restaurante	Tortuga Restaurante	74.50
Ana Trujillo Emparedados y helados	Ana Trujillo Emparedados y helados	42.00
Ana Trujillo Emparedados y helados	Ana Trujillo Emparedados y helados	60.00
Ana Trujillo Emparedados y helados	Ana Trujillo Emparedados y helados	64.40
Ana Trujillo Emparedados y helados	Ana Trujillo Emparedados y helados	348.00
Pericles Comidas clásicas	Pericles Comidas clásicas	1060.00
Pericles Comidas clásicas	Pericles Comidas clásicas	136.00
Tortuga Restaurante	Tortuga Restaurante	360.00
Pericles Comidas clásicas	Pericles Comidas clásicas	210.00
Pericles Comidas clásicas	Pericles Comidas clásicas	90.00
ProductName	Region	
Louisiana Fiery Hot Pepper Sauce	LA	
Louisiana Hot Spiced Okra	LA	
Laughing Lumberjack Lager	OR	
Longlife Tofu		
Lakkalikööri		
ShipCountry	ShipName	OrderDate
France	La corne d'abondance	January 2015
France	La corne d'abondance	March 2015
France	La corne d'abondance	March 2015
France	La corne d'abondance	March 2015

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

France La corne dabondance January 2015
France La corne dabondance March 2015
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ProductName	UnitsInStock	Ranking
Filo Mix	38	1
Flotemysost	26	2

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

ERROR 1064 (42000) at line 180: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Birthdate, 101) AS
DOB

FROM hwEmployees

WHERE DOB > '1/1/1984" at line 1

Operation failed with exitcode 1