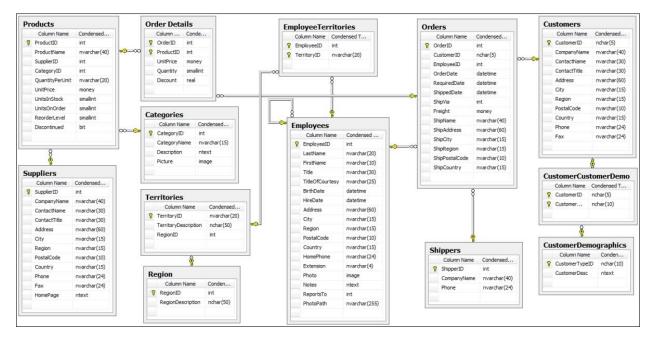
#### **Northwind Database Model:**



Part I: Create user called northwind identified by root.

Hint: Use xe connection (sys as sysdba/root) execute below command before creating user alter session set "\_ORACLE\_SCRIPT"=true;

Part II: Create tables as indicated in "Oracle Northwind CreateObjects.sql".

Part III: Add records as indicated in "Oracle Northwind InsertData.sql.sql"

.Part IV: Write queries on Northwind db.

- 1. Get a list of latest order IDs for all customers by using the max function on Order\_ID column.
- 2. Find suppliers who sell more than one product to Northwind Trader.
- 3. Create a function to get latest order date for entered customer id
- 4. Get the top 10 most expensive products.

Ten_Most_Expensive_Products	UnitPrice
Côte de Blaye	263.5
Thüringer Rostbratwurst	123.79
Mishi Kobe Niku	97
Sir Rodney's Marmalade	81
Carnarvon Tigers	62.5
Raclette Courdavault	55
Manjimup Dried Apples	53
Tarte au sucre	49.3
Ipoh Coffee	46
Rössle Sauerkraut	45.6

- 5. Rank products by the number of units in stock in each product category.
- 6. Rank customers by the total sales amount within each order date
- 7. For each order, calculate a subtotal for each Order (identified by OrderID).

OrderID	Subtotal
10248	440.00
10249	1,863.40
10250	1,552.60
10251	654.06
10252	3,597.90
10253	1,444.80
10254	556.62
10255	2,490.50
10256	517.80
10257	1,119.90
10258	1,614.88
10259	100.80
10260	1,504.65

8. Sales by Year for each order. Hint: Get Subtotal as sum(UnitPrice \* Quantity \* (1 - Discount)) for every order\_id then join with orders table

ShippedDate	OrderID	Subtotal	Year
1996-12-24	10389	1,832.80	1996
1996-12-24	10371	72.96	1996
1996-12-25	10386	166.00	1996
1996-12-26	10390	2,090.88	1996
1996-12-27	10370	1,117.60	1996
1996-12-30	10366	136.00	1996
1996-12-31	10391	86.40	1996
1997-01-01	10392	1,440.00	1997
1997-01-02	10397	716.72	1997
1997-01-03	10394	442.00	1997

# 9. Get Employee sales by country names

Country	LastName	FirstName	ShippedDate	OrderID	Sale_Amount
UK	Buchanan	Steven	1997-01-02	10397	716.72
UK	Buchanan	Steven	1997-03-06	10463	713.30
UK	Buchanan	Steven	1997-03-21	10474	1,249.10
UK	Buchanan	Steven	1997-03-25	10477	558.00
UK	Buchanan	Steven	1997-05-09	10529	946.00
UK	Buchanan	Steven	1997-05-30	10549	3,554.27
UK	Buchanan	Steven	1997-06-30	10575	2,147.40
UK	Buchanan	Steven	1997-07-11	10569	890.00
UK	Buchanan	Steven	1997-07-25	10607	6,475.40
UK	Buchanan	Steven	1997-08-29	10649	1,434.00

## 10. Alphabetical list of products

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice
3	Aniseed Syrup	1	2	12 - 550 ml bottles	10
40	Boston Crab Meat	19	8	24 - 4 oz tins	18.4
60	Camembert Pierrot	28	4	15 - 300 g rounds	34
18	Carnarvon Tigers	7	8	16 kg pkg.	62.5
1	Chai	1	1	10 boxes x 20 bags	18
2	Chang	1	1	24 - 12 oz bottles	19
39	Chartreuse verte	18	1	750 cc per bottle	18
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22
48	Chocolade	22	3	10 pkgs.	12.75

## 11. Display the current Productlist

Hint: Discontinued='N'

ProductID	ProductName		
3	Aniseed Syrup		
40	Boston Crab Meat		
60	Camembert Pierrot		
18	Carnarvon Tigers		
1	Chai		
2	Chang		
39	Chartreuse verte		
4	Chef Anton's Cajun Seasoning		
48	Chocolade		
38	Côte de Blaye		

12. Calculate sales price for each order after discount is applied.

OrderID	ProductID	ProductName	UnitPrice	Quantity	Discount	ExtendedPrice
10248	42	Singaporean Hokkien Fried Mee	9.8	10	0	98.00
10248	72	Mozzarella di Giovanni	34.8	5	0	174.00
10248	11	Queso Cabrales	14	12	0	168.00
10249	14	Tofu	18.6	9	0	167.40
10249	51	Manjimup Dried Apples	42.4	40	0	1696.00
10250	51	Manjimup Dried Apples	42.4	35	0.15	1261.40
10250	65	Louisiana Fiery Hot Pepper Sauce	16.8	15	0.15	214.20
10250	41	Jack's New England Clam Chowder	7.7	10	0	77.00

13. Sales by Category: For each category, we get the list of products sold and the total sales amount.

CategoryID	CategoryName	ProductName	ProductSales
1	l Beverages	Chai	4887.00
[	l Beverages	Chang	7038.55
	l Beverages	Chartreuse verte	4192.20
	l Beverages	Côte de Blaye	49198.08
	l Beverages	Guaraná Fantástica	1630.12
	l Beverages	Ipoh Coffee	11069.90
	l Beverages	Lakkalikööri	7379.10
	l Beverages	Laughing Lumberjack Lager	910.00
	l Beverages	Outback Lager	5468.40
	l Beverages	Rhönbräu Klosterbier	4485.54

#### 14. Create below views:

lew Name	Desription
	, 565. Ep 626

1	Doodysta Abaya Ayaa	Dianlaus ans	d., at a / m. a d., at mama		.)	-+ +
1.	<pre>vwProducts_Above_Aver age_Price</pre>	avg(price)	ducts(productname,ur	nitprice) who	o's price is grea	ater than
	48c_1 + 1cc	ProductName	,	UnitPrice		
			rganic Dried Pears	3	<u></u>	
		Ikura		3		
		Gumbär Gummib	ärchen	31.2		
		Mascarpone Fa	bioli	3		
		Perth Pasties		32.		
		Wimmers gute	Semmelknödel	33.2	5	
		Camembert Pie		3	4	
		Mozzarella di	Giovanni	34.	8	
		Gudbrandsdals		3		
		Gnocchi di no	nna Alice	3	8	
		Queso Mancheg	o La Pastora	3	8	
		Alice Mutton		3	9	
		Northwoods Cr	anberry Sauce	4	0	
2.	vwQuarterly_Orders_by _Product	Display produ	uct(productname), cu	ustomers(com	oanyname), order	s(orderyear)
		, ,	JK','Spain','Sweden 'Denmark','Neth JSA','Canada','Braz	nerlands','F	inland', 'Italy',	'France')
	vw10Most_Expensive_Pr oducts		LO expensive product			
5.	vwCustomer_Supplier_b	100 (100 (100 (100 (100 (100 (100 (100	omer supplier by cit			1
	y_City	City	CompanyName		ContactName	Relationship
		Aachen	Drachenblut Delikat		Sven Ottlieb	Customers
		Albuquerque	Rattlesnake Canyon		Paula Wilson	Customers
		Anchorage	Old World Delicates		Rene Phillips	Customers
		Ann Arbor	Grandma Kelly's Hom		Regina Murphy	
		Annecy	Gai pâturage	- 1		Suppliers
		1 A section of the se			Eliane Noz	Suppliers Suppliers
		Ārhus	Vaffeljernet		Palle Ibsen	Suppliers
		Barcelona	Vaffeljernet Galería del gastrón	iomo I	Palle Ibsen Eduardo Saavedra	Suppliers Suppliers Customers Customers
			Galería del gastrón LILA-Supermercado	iomo I	Palle Ibsen	Suppliers Suppliers Customers
		Barcelona	Galería del gastrón	iomo l	Palle Ibsen Eduardo Saavedra	Suppliers Suppliers Customers Customers