
Northwind Database

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Northwind Database

Description

This database reference documents the Northwind database.

See Also

[Tables](#) | [Views](#)

Tables: Northwind


Tables

Name	Description
Categories	Categories of Northwind products.
Customers	Customers' names, addresses, and phone numbers.
Employees	Employees' names, titles, and personal information.
Order Details	Details on products, quantities, and prices for each order in the Orders table.
Orders	Customer name, order date, and freight charge for each order.
Products	Product names, suppliers, prices, and units in stock.
Shippers	Shippers' names and phone numbers.
Suppliers	Suppliers' names, addresses, phone numbers, and hyperlinks to home pages.

Table: Categories**Description**

Categories of Northwind products.

Columns

Name	Type	Description
 CategoryID	AutoNumber	Number automatically assigned to a new category.
CategoryName	Text(15)	Name of food category.
Description	Memo	
Picture	OLE Object	A picture representing the food category.

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Categories	CategoryID	Products	CategoryID

Indexes

Name	Type	Columns
PrimaryKey	Unique	CategoryID
	Unique	CategoryName

Referencing Views

Name
Alphabetical List of Products
Category Sales for 1997
Product Sales for 1997
Products by Category
Sales by Category


Check Constraints

None

Table: Customers**Description**

Customers' names, addresses, and phone numbers.

Columns

Name	Type	Description
Address	Text(60)	Street or post-office box.
City	Text(15)	
CompanyName	Text(40)	
ContactName	Text(30)	
ContactTitle	Text(30)	
Country	Text(15)	
 CustomerID	Text(5)	Unique five-character code based on customer name.
Fax	Text(24)	Phone number includes country code or area code.
Phone	Text(24)	Phone number includes country code or area code.
PostalCode	Text(10)	
Region	Text(15)	State or province.

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Customers	CustomerID	Orders	CustomerID

Indexes

Name	Type	Columns
PrimaryKey	Unique	CustomerID
	Non-unique	City
	Non-unique	CompanyName
	Non-unique	PostalCode
	Non-unique	Region

Referencing Views

Name
Invoices
Invoices Filter
Orders Qry
Quarterly Orders
Sales Totals by Amount

Check Constraints

None

Table: Employees**Description**

Employees' names, titles, and personal information.

Columns

Name	Type	Description
Address	Text(60)	Street or post-office box.
BirthDate	Date/Time	
City	Text(15)	
Country	Text(15)	
EmployeeID	AutoNumber	Number automatically assigned to new employee.
Extension	Text(4)	Internal telephone extension number.
FirstName	Text(10)	
HireDate	Date/Time	
HomePhone	Text(24)	Phone number includes country code or area code.
LastName	Text(20)	
Notes	Memo	General information about employee's background.
Photo	Text(255)	Picture of employee.
PostalCode	Text(10)	
Region	Text(15)	State or province.
ReportsTo	Long Integer	Employee's supervisor.
Title	Text(30)	Employee's title.
TitleOfCourtesy	Text(25)	Title used in salutations.

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Employees	EmployeeID	Orders	EmployeeID

Indexes

Name	Type	Columns
PrimaryKey	Unique	EmployeeID
	Non-unique	LastName
	Non-unique	PostalCode

Referencing Views

Name
Employee Sales by Country
Invoices
Invoices Filter

Check Constraints

Name	Check
BirthDate	<Date()

Table: Order Details

Description

Details on products, quantities, and prices for each order in the Orders table.

Columns

Name	Type	Description
Discount	Single	
🔑 OrderID	Long Integer	Same as Order ID in Orders table.
🔑 ProductID	Long Integer	Same as Product ID in Products table.
Quantity	Integer	
UnitPrice	Currency	

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Orders	OrderID	Order Details	OrderID
Products	ProductID	Order Details	ProductID

Indexes

Name	Type	Columns
PrimaryKey	Unique	OrderID, ProductID
	Non-unique	OrderID
	Non-unique	ProductID

Referencing Views

Name
Invoices
Invoices Filter
Order Details Extended
Order Subtotals

Check Constraints

Name	Check
UnitPrice	>=0
Quantity	>0
Discount	Between 0 And 1

Table: Orders**Description**

Customer name, order date, and freight charge for each order.

Columns

Name	Type	Description
CustomerID	Text(5)	Same entry as in Customers table.
EmployeeID	Long Integer	Same entry as in Employees table.
Freight	Currency	
OrderDate	Date/Time	
🔑 OrderID	AutoNumber	Unique order number.
RequiredDate	Date/Time	
ShipAddress	Text(60)	Street address only -- no post-office box allowed.
ShipCity	Text(15)	
ShipCountry	Text(15)	
ShipName	Text(40)	Name of person or company to receive the shipment.
ShippedDate	Date/Time	
ShipPostalCode	Text(10)	
ShipRegion	Text(15)	State or province.
ShipVia	Long Integer	Same as Shipper ID in Shippers table.

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Customers	CustomerID	Orders	CustomerID
Employees	EmployeeID	Orders	EmployeeID
Orders	OrderID	Order Details	OrderID
Shippers	ShipperID	Orders	ShipVia

Indexes

Name	Type	Columns
PrimaryKey	Unique	OrderID
	Non-unique	CustomerID
	Non-unique	EmployeeID
	Non-unique	OrderDate
	Non-unique	ShippedDate
	Non-unique	ShipVia
	Non-unique	ShipPostalCode

Referencing Views

Name

Employee Sales by Country

Invoices

Invoices Filter

Orders Qry

Quarterly Orders by Product

Sales by Year

Sales Totals by Amount

Summary of Sales by Quarter

Summary of Sales by Year

Check Constraints

None

Table: Products**Description**

Product names, suppliers, prices, and units in stock.

Columns

Name	Type	Description
CategoryID	Long Integer	Same entry as in Categories table.
Discontinued	Yes/No	Yes means item is no longer available.
ProductID	AutoNumber	Number automatically assigned to new product.
ProductName	Text(40)	
QuantityPerUnit	Text(20)	(e.g., 24-count case, 1-liter bottle).
ReorderLevel	Integer	Minimum units to maintain in stock.
SupplierID	Long Integer	Same entry as in Suppliers table.
UnitPrice	Currency	
UnitsInStock	Integer	
UnitsOnOrder	Integer	

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Categories	CategoryID	Products	CategoryID
Products	ProductID	Order Details	ProductID
Suppliers	SupplierID	Products	SupplierID

Indexes

Name	Type	Columns
PrimaryKey	Unique	ProductID
	Non-unique	CategoryID
	Non-unique	ProductName
	Non-unique	SupplierID

Referencing Views

Name
Alphabetical List of Products
Current Product List
Invoices
Invoices Filter
Order Details Extended
Product Sales for 1997
Products Above Average Price
Products by Category

Quarterly Orders by Product
Sales by Category
Ten Most Expensive Products


Check Constraints

Name	Check
UnitPrice	>=0
UnitsInStock	>=0
UnitsOnOrder	>=0
ReorderLevel	>=0

Table: Shippers**Description**

Shippers' names and phone numbers.

Columns

Name	Type	Description
CompanyName	Text(40)	Name of shipping company.
Phone	Text(24)	Phone number includes country code or area code.
 ShipperID	AutoNumber	Number automatically assigned to new shipper.

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Shippers	ShipperID	Orders	ShipVia

Indexes

Name	Type	Columns
PrimaryKey	Unique	ShipperID

Referencing Views

Name
Invoices
Invoices Filter


Check Constraints

None

Table: Suppliers**Description**

Suppliers' names, addresses, phone numbers, and hyperlinks to home pages.

Columns

Name	Type	Description
Address	Text(60)	Street or post-office box.
City	Text(15)	
CompanyName	Text(40)	
ContactName	Text(30)	
ContactTitle	Text(30)	
Country	Text(15)	
Fax	Text(24)	Phone number includes country code or area code.
HomePage	Hyperlink	Supplier's home page on World Wide Web.
Phone	Text(24)	Phone number includes country code or area code.
PostalCode	Text(10)	
Region	Text(15)	State or province.
 SupplierID	AutoNumber	Number automatically assigned to new supplier.

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Suppliers	SupplierID	Products	SupplierID

Indexes

Name	Type	Columns
PrimaryKey	Unique	SupplierID
	Non-unique	CompanyName
	Non-unique	PostalCode

Check Constraints

None

Views: Northwind

Views

Name	Description
Alphabetical List of Products	Underlying query for Alphabetical List of Products report.
Category Sales for 1997	Totals product sales by category based on values returned by the Product Sales for 1995 query.
Current Product List	Filters records in Products table; query returns only products that are not discontinued.
Customers and Suppliers by City	(Union) Returns list of suppliers and customers in each city.
Employee Sales by Country	(Parameter) Record source for Employee Sales by Country report. Prompts for beginning and ending dates.
Invoices	(Criteria) Record source for Invoice report. Based on six tables. Includes expressions that concatenate first and last employee name and that use the CCur function to calculate extended price.
Invoices Filter	Filters records in Invoice report. Referred to in the Click event of the Print button on the Orders form.
Order Details Extended	Record source for several forms and reports. Uses CCur function to compute the ExtendedPrice for each item ordered.
Order Subtotals	Record source for other queries. Uses Sum and CCur functions to compute subtotal for each order.
Orders Qry	Underlying query for the Orders form.
Product Sales for 1997	Record source for Category Sales for 1995 query. Uses Sum and CCur functions.
Products Above Average Price	(Subquery) Returns products that have a unit price higher than the average.
Products by Category	Underlying query for the Products by Category report.
Quarterly Orders	Record source for Quarterly Orders form. Lists only customers who had orders in 1995.
Quarterly Orders by Product	(Crosstab) Record source for Quarterly Orders Subform.
Sales by Category	Record source for Sales by Category report.
Sales by Year	(Parameter) Record source for Sales by Year report and its subreport. Refers to controls on Sales by Year Dialog for parameter values. Uses Format function to return the year value of a shipped date.
Sales Totals by Amount	Underlying query for the Sales Totals by Amount report.
Summary of Sales by Quarter	Underlying query for the Summary of Sales by Quarter report.
Summary of Sales by Year	Underlying query for the Summary of Sales by Year report.
Ten Most Expensive Products	(Top Values) Returns 10 most expensive products. Specifies the number of highest values to return using the Top Values box on the toolbar.

View: Alphabetical List of Products

Description

Underlying query for Alphabetical List of Products report.

Columns

Name	Type	Description
CategoryID	Long Integer	Same entry as in Categories table.
CategoryName	Text(15)	Name of food category.
Discontinued	Yes/No	Yes means item is no longer available.
ProductID	AutoNumber	Number automatically assigned to new product.
ProductName	Text(40)	
QuantityPerUnit	Text(20)	(e.g., 24-count case, 1-liter bottle).
ReorderLevel	Integer	Minimum units to maintain in stock.
SupplierID	Long Integer	Same entry as in Suppliers table.
UnitPrice	Currency	
UnitsInStock	Integer	
UnitsOnOrder	Integer	

Tables Referenced

Name
Products
Categories

Definition

```
SELECT Products.*, Categories.CategoryName
FROM Categories INNER JOIN Products ON Categories.CategoryID=Products.CategoryID
WHERE (((Products.Discontinued)=No));
```

View: Category Sales for 1997

Description

Totals product sales by category based on values returned by the Product Sales for 1995 query.

Columns

Name	Type	Description
CategoryName	Text(15)	Name of food category.
CategorySales	Currency	

Tables Referenced

Name
Categories

Definition

```
SELECT DISTINCTROW [Product Sales for 1997].CategoryName, Sum([Product Sales for 1997].ProductSales) AS CategorySales
FROM [Product Sales for 1997]
GROUP BY [Product Sales for 1997].CategoryName;
```

View: Current Product List

Description

Filters records in Products table; query returns only products that are not discontinued.

Columns

Name	Type	Description
ProductID	AutoNumber	Number automatically assigned to new product.
ProductName	Text(40)	

Tables Referenced

Name
Products

Definition

```
SELECT [Product List].ProductID, [Product List].ProductName  
FROM Products AS [Product List]  
WHERE ((([Product List].Discontinued)=No))  
ORDER BY [Product List].ProductName;
```

View: Customers and Suppliers by City

Description

(Union) Returns list of suppliers and customers in each city.

Columns

Name	Type	Description
City	Text(255)	
CompanyName	Text(255)	
ContactName	Text(255)	
Relationship	Text(255)	

Definition

```
SELECT City, CompanyName, ContactName, "Customers" AS [Relationship]
FROM Customers
UNION SELECT City, CompanyName, ContactName, "Suppliers"
FROM Suppliers
ORDER BY City, CompanyName;
```

View: Employee Sales by Country

Description

(Parameter) Record source for Employee Sales by Country report. Prompts for beginning and ending dates.

Columns

Name	Type	Description
Country	Text(15)	
FirstName	Text(10)	
LastName	Text(20)	
OrderID	AutoNumber	Unique order number.
SaleAmount	Currency	
ShippedDate	Date/Time	

Tables Referenced

Name
Employees
Orders

Definition

```
PARAMETERS [Beginning Date] DateTime, [Ending Date] DateTime;
SELECT DISTINCTROW Employees.Country, Employees.LastName, Employees.FirstName,
Orders.ShippedDate, Orders.OrderID, [Order Subtotals].Subtotal AS SaleAmount
FROM Employees INNER JOIN (Orders INNER JOIN [Order Subtotals] ON Orders.OrderID=[Order
Subtotals].OrderID) ON Employees.EmployeeID=Orders.EmployeeID
WHERE (((Orders.ShippedDate) Between [Beginning Date] And [Ending Date]));
```

View: Invoices

Description

(Criteria) Record source for Invoice report. Based on six tables. Includes expressions that concatenate first and last employee name and that use the CCur function to calculate extended price.

Columns

Name	Type	Description
Address	Text(60)	Street or post-office box.
City	Text(15)	
Country	Text(15)	
CustomerID	Text(5)	Same entry as in Customers table.
Customers.CompanyName	Text(40)	
Discount	Single	
ExtendedPrice	Currency	
Freight	Currency	
OrderDate	Date/Time	
OrderID	AutoNumber	Unique order number.
PostalCode	Text(10)	
ProductID	Long Integer	Same as Product ID in Products table.
ProductName	Text(40)	
Quantity	Integer	
Region	Text(15)	State or province.
RequiredDate	Date/Time	
Salesperson	Text(0)	
ShipAddress	Text(60)	Street address only -- no post-office box allowed.
ShipCity	Text(15)	
ShipCountry	Text(15)	
ShipName	Text(40)	Name of person or company to receive the shipment.
ShippedDate	Date/Time	
Shippers.CompanyName	Text(40)	Name of shipping company.
ShipPostalCode	Text(10)	
ShipRegion	Text(15)	State or province.
UnitPrice	Currency	

Tables Referenced

Name
Orders
Customers
Employees
Shippers

Order Details

Products

Definition

```
SELECT Orders.ShipName, Orders.ShipAddress, Orders.ShipCity, Orders.ShipRegion,
Orders.ShipPostalCode, Orders.ShipCountry, Orders.CustomerID, Customers.CompanyName,
Customers.Address, Customers.City, Customers.Region, Customers.PostalCode, Customers.Country,
[FirstName] & " " & [LastName] AS Salesperson, Orders.OrderID, Orders.OrderDate, Orders.RequiredDate,
Orders.ShippedDate, Shippers.CompanyName, [Order Details].ProductID, Products.ProductName, [Order
Details].UnitPrice, [Order Details].Quantity, [Order Details].Discount, CCur([Order
Details].UnitPrice*[Quantity]*(1-[Discount])/100)*100 AS ExtendedPrice, Orders.Freight
FROM Shippers INNER JOIN (Products INNER JOIN ((Employees INNER JOIN (Customers INNER JOIN
Orders ON Customers.CustomerID=Orders.CustomerID) ON Employees.EmployeeID=Orders.EmployeeID)
INNER JOIN [Order Details] ON Orders.OrderID=[Order Details].OrderID) ON Products.ProductID=[Order
Details].ProductID) ON Shippers.ShipperID=Orders.ShipVia;
```

View: Invoices Filter

Description

Filters records in Invoice report. Referred to in the Click event of the Print button on the Orders form.

Columns

Name	Type	Description
Address	Text(60)	Street or post-office box.
City	Text(15)	
Country	Text(15)	
CustomerID	Text(5)	Same entry as in Customers table.
Customers.CompanyName	Text(40)	
Discount	Single	
ExtendedPrice	Currency	
Freight	Currency	
OrderDate	Date/Time	
OrderID	AutoNumber	Unique order number.
PostalCode	Text(10)	
ProductID	Long Integer	Same as Product ID in Products table.
ProductName	Text(40)	
Quantity	Integer	
Region	Text(15)	State or province.
RequiredDate	Date/Time	
Salesperson	Text(0)	
ShipAddress	Text(60)	Street address only -- no post-office box allowed.
ShipCity	Text(15)	
ShipCountry	Text(15)	
ShipName	Text(40)	Name of person or company to receive the shipment.
ShippedDate	Date/Time	
Shippers.CompanyName	Text(40)	Name of shipping company.
ShipPostalCode	Text(10)	
ShipRegion	Text(15)	State or province.
UnitPrice	Currency	

Tables Referenced

Name
Orders
Customers
Employees
Shippers

Order Details Products

Definition

```
SELECT Invoices.*  
FROM Invoices  
WHERE ((Invoices.OrderID)=Forms!Orders!OrderID);
```

View: Order Details Extended

Description

Record source for several forms and reports. Uses CCur function to compute the ExtendedPrice for each item ordered.

Columns

Name	Type	Description
Discount	Single	
ExtendedPrice	Currency	
OrderID	Long Integer	Same as Order ID in Orders table.
ProductID	Long Integer	Same as Product ID in Products table.
ProductName	Text(40)	
Quantity	Integer	
UnitPrice	Currency	

Tables Referenced

Name
Order Details
Products

Definition

```
SELECT [Order Details].OrderID, [Order Details].ProductID, Products.ProductName, [Order Details].UnitPrice,
[Order Details].Quantity, [Order Details].Discount, CCur([Order
Details].UnitPrice*[Quantity]*(1-[Discount])/100)*100 AS ExtendedPrice
FROM Products INNER JOIN [Order Details] ON Products.ProductID=[Order Details].ProductID
ORDER BY [Order Details].OrderID;
```

View: Order Subtotals

Description

Record source for other queries. Uses Sum and CCur functions to compute subtotal for each order.

Columns

Name	Type	Description
OrderID	Long Integer	Same as Order ID in Orders table.
Subtotal	Currency	

Tables Referenced

Name
Order Details

Definition

```
SELECT [Order Details].OrderID, Sum(CCur([UnitPrice]*[Quantity]*(1-[Discount])/100)*100) AS Subtotal  
FROM [Order Details]  
GROUP BY [Order Details].OrderID;
```

View: Orders Qry

Description

Underlying query for the Orders form.

Columns

Name	Type	Description
Address	Text(60)	Street or post-office box.
City	Text(15)	
CompanyName	Text(40)	
Country	Text(15)	
CustomerID	Text(5)	Same entry as in Customers table.
EmployeeID	Long Integer	Same entry as in Employees table.
Freight	Currency	
OrderDate	Date/Time	
OrderID	AutoNumber	Unique order number.
PostalCode	Text(10)	
Region	Text(15)	State or province.
RequiredDate	Date/Time	
ShipAddress	Text(60)	Street address only -- no post-office box allowed.
ShipCity	Text(15)	
ShipCountry	Text(15)	
ShipName	Text(40)	Name of person or company to receive the shipment.
ShippedDate	Date/Time	
ShipPostalCode	Text(10)	
ShipRegion	Text(15)	State or province.
ShipVia	Long Integer	Same as Shipper ID in Shippers table.

Tables Referenced

Name
Orders
Customers

Definition

```
SELECT Orders.OrderID, Orders.CustomerID, Orders.EmployeeID, Orders.OrderDate, Orders.RequiredDate,
Orders.ShippedDate, Orders.ShipVia, Orders.Freight, Orders.ShipName, Orders.ShipAddress,
Orders.ShipCity, Orders.ShipRegion, Orders.ShipPostalCode, Orders.ShipCountry,
Customers.CompanyName, Customers.Address, Customers.City, Customers.Region, Customers.PostalCode,
Customers.Country
FROM Customers INNER JOIN Orders ON Customers.CustomerID=Orders.CustomerID;
```

View: Product Sales for 1997

Description

Record source for Category Sales for 1995 query. Uses Sum and CCur functions.

Columns

Name	Type	Description
CategoryName	Text(15)	Name of food category.
ProductName	Text(40)	
ProductSales	Currency	
ShippedQuarter	Text(0)	

Tables Referenced

Name
Categories
Products

Definition

```
SELECT Categories.CategoryName, Products.ProductName, Sum(CCur([Order
Details].UnitPrice*[Quantity]*(1-[Discount])/100)*100) AS ProductSales, "Qtr " & DatePart("q",[ShippedDate])
AS ShippedQuarter
FROM (Categories INNER JOIN Products ON Categories.CategoryID=Products.CategoryID) INNER JOIN
(Orders INNER JOIN [Order Details] ON Orders.OrderID=[Order Details].OrderID) ON
Products.ProductID=[Order Details].ProductID
WHERE (((Orders.ShippedDate) Between #1/1/1997# And #12/31/1997#))
GROUP BY Categories.CategoryName, Products.ProductName, "Qtr " & DatePart("q",[ShippedDate]);
```

View: Products Above Average Price

Description

(Subquery) Returns products that have a unit price higher than the average.

Columns

Name	Type	Description
ProductName	Text(40)	
UnitPrice	Currency	

Tables Referenced

Name
Products

Definition

```
SELECT Products.ProductName, Products.UnitPrice  
FROM Products  
WHERE (((Products.UnitPrice)>(SELECT AVG([UnitPrice]) From Products)))  
ORDER BY Products.UnitPrice DESC;
```

View: Products by Category

Description

Underlying query for the Products by Category report.

Columns

Name	Type	Description
CategoryName	Text(15)	Name of food category.
Discontinued	Yes/No	Yes means item is no longer available.
ProductName	Text(40)	
QuantityPerUnit	Text(20)	(e.g., 24-count case, 1-liter bottle).
UnitsInStock	Integer	

Tables Referenced

Name
Categories
Products

Definition

```
SELECT Categories.CategoryName, Products.ProductName, Products.QuantityPerUnit, Products.UnitsInStock,
Products.Discontinued
FROM Categories INNER JOIN Products ON Categories.CategoryID=Products.CategoryID
WHERE (((Products.Discontinued)<>Yes))
ORDER BY Categories.CategoryName, Products.ProductName;
```

View: Quarterly Orders

Description

Record source for Quarterly Orders form. Lists only customers who had orders in 1995.

Columns

Name	Type	Description
City	Text(15)	
CompanyName	Text(40)	
Country	Text(15)	
CustomerID	Text(5)	Unique five-character code based on customer name.

Tables Referenced

Name
Customers

Definition

```
SELECT DISTINCT Customers.CustomerID, Customers.CompanyName, Customers.City, Customers.Country  
FROM Customers RIGHT JOIN Orders ON Customers.CustomerID=Orders.CustomerID  
WHERE (((Orders.OrderDate) Between #1/1/1997# And #12/31/1997#));
```


View: Quarterly Orders by Product

Description

(Crosstab) Record source for Quarterly Orders Subform.

Columns

Name	Type	Description
CustomerID	Text(5)	Same entry as in Customers table.
OrderYear	Integer	
ProductName	Text(40)	
Qtr 1	Currency	
Qtr 2	Currency	
Qtr 3	Currency	
Qtr 4	Currency	

Tables Referenced

Name
Products
Orders

Definition

```
TRANSFORM Sum(CCur([Order Details].UnitPrice*[Quantity]*(1-[Discount])/100)*100) AS ProductAmount
SELECT Products.ProductName, Orders.CustomerID, Year([OrderDate]) AS OrderYear
FROM Products INNER JOIN (Orders INNER JOIN [Order Details] ON Orders.OrderID=[Order
Details].OrderID) ON Products.ProductID=[Order Details].ProductID
WHERE (((Orders.OrderDate) Between #1/1/1997# And #12/31/1997#))
GROUP BY Products.ProductName, Orders.CustomerID, Year([OrderDate])
PIVOT "Qtr " & DatePart("q",[OrderDate],1,0) In ("Qtr 1","Qtr 2","Qtr 3","Qtr 4");
```

View: Sales by Category

Description

Record source for Sales by Category report.

Columns

Name	Type	Description
CategoryID	AutoNumber	Number automatically assigned to a new category.
CategoryName	Text(15)	Name of food category.
ProductName	Text(40)	
ProductSales	Currency	

Tables Referenced

Name
Categories
Products

Definition

```
SELECT Categories.CategoryID, Categories.CategoryName, Products.ProductName, Sum([Order Details
Extended].ExtendedPrice) AS ProductSales
FROM Categories INNER JOIN (Products INNER JOIN (Orders INNER JOIN [Order Details Extended] ON
Orders.OrderID=[Order Details Extended].OrderID) ON Products.ProductID=[Order Details
Extended].ProductID) ON Categories.CategoryID=Products.CategoryID
WHERE (((Orders.OrderDate) Between #1/1/1997# And #12/31/1997#))
GROUP BY Categories.CategoryID, Categories.CategoryName, Products.ProductName
ORDER BY Categories.CategoryName;
```

View: Sales by Year

Description

(Parameter) Record source for Sales by Year report and its subreport. Refers to controls on Sales by Year Dialog for parameter values. Uses Format function to return the year value of a shipped date.

Columns

Name	Type	Description
OrderID	AutoNumber	Unique order number.
ShippedDate	Date/Time	
Subtotal	Currency	
Year	Text(0)	

Tables Referenced

Name
Orders

Definition

```
PARAMETERS [Forms]![Sales by Year Dialog]![BeginningDate] DateTime, [Forms]![Sales by Year
Dialog]![EndingDate] DateTime;
SELECT Orders.ShippedDate, Orders.OrderID, [Order Subtotals].Subtotal, Format([ShippedDate],"yyyy") AS
[Year]
FROM Orders INNER JOIN [Order Subtotals] ON Orders.OrderID=[Order Subtotals].OrderID
WHERE (((Orders.ShippedDate) Is Not Null And (Orders.ShippedDate) Between Forms![Sales by Year
Dialog]![BeginningDate] And Forms![Sales by Year Dialog]![EndingDate]));
```

View: Sales Totals by Amount

Description

Underlying query for the Sales Totals by Amount report.

Columns

Name	Type	Description
CompanyName	Text(40)	
OrderID	AutoNumber	Unique order number.
SaleAmount	Currency	
ShippedDate	Date/Time	

Tables Referenced

Name
Orders
Customers

Definition

```
SELECT DISTINCTROW [Order Subtotals].Subtotal AS SaleAmount, Orders.OrderID,
Customers.CompanyName, Orders.ShippedDate
FROM Customers INNER JOIN (Orders INNER JOIN [Order Subtotals] ON Orders.OrderID=[Order
Subtotals].OrderID) ON Customers.CustomerID=Orders.CustomerID
WHERE ((([Order Subtotals].Subtotal)>2500) And ((Orders.ShippedDate) Between #1/1/1997# And
#12/31/1997#));
```

View: Summary of Sales by Quarter

Description

Underlying query for the Summary of Sales by Quarter report.

Columns

Name	Type	Description
OrderID	AutoNumber	Unique order number.
ShippedDate	Date/Time	
Subtotal	Currency	

Tables Referenced

Name
Orders

Definition

```
SELECT DISTINCTROW Orders.ShippedDate, Orders.OrderID, [Order Subtotals].Subtotal
FROM Orders INNER JOIN [Order Subtotals] ON Orders.OrderID=[Order Subtotals].OrderID
WHERE (((Orders.ShippedDate) Is Not Null))
ORDER BY Orders.ShippedDate;
```

View: Summary of Sales by Year

Description

Underlying query for the Summary of Sales by Year report.

Columns

Name	Type	Description
OrderID	AutoNumber	Unique order number.
ShippedDate	Date/Time	
Subtotal	Currency	

Tables Referenced

Name
Orders

Definition

```
SELECT DISTINCTROW Orders.ShippedDate, Orders.OrderID, [Order Subtotals].Subtotal  
FROM Orders INNER JOIN [Order Subtotals] ON Orders.OrderID=[Order Subtotals].OrderID  
WHERE (((Orders.ShippedDate) Is Not Null))  
ORDER BY Orders.ShippedDate;
```

View: Ten Most Expensive Products

Description

(Top Values) Returns 10 most expensive products. Specifies the number of highest values to return using the Top Values box on the toolbar.

Columns

Name	Type	Description
TenMostExpensiveProducts	Text(40)	
UnitPrice	Currency	

Tables Referenced

Name
Products

Definition

```
SELECT TOP 10 Products.ProductName AS TenMostExpensiveProducts, Products.UnitPrice  
FROM Products  
ORDER BY Products.UnitPrice DESC;
```

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