
Northwind Database

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Northwind Database

Description

This database reference documents the Northwind database.

See Also


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Tables: Northwind

Tables

Name
Categories
CustomerCustomerDemo
CustomerDemographics
Customers
Employees
EmployeeTerritories
Order Details
Orders
Products
Region
Shippers
Suppliers
Territories

Table: Categories**Columns**

Name	Type
 CategoryID	int
CategoryName	nvarchar(15)
Description	ntext
Picture	image

Relationships

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

Indexes

Name	Type	Columns
CategoryName	Non-unique	CategoryName
PK_Categories	Unique, Clustered	CategoryID

Referencing Views

Name
Alphabetical list of products
Product Sales for 1997
Products by Category
Sales by Category

Check Constraints

None

Table: CustomerCustomerDemo

Columns

Name	Type
🔑 CustomerID	nchar(5)
🔑 CustomerTypeID	nchar(10)

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
CustomerDemographics	CustomerTypeID	CustomerCustomerDemo	CustomerTypeID
Customers	CustomerID	CustomerCustomerDemo	CustomerID


Indexes

Name	Type	Columns
PK_CustomerCustomerDemo	Unique	CustomerID, CustomerTypeID

Check Constraints

None

Table: CustomerDemographics**Columns**

Name	Type
 CustomerTypeID	nchar(10)
CustomerDesc	ntext

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
CustomerDemographics	CustomerTypeID	CustomerCustomerDemo	CustomerTypeID


Indexes

Name	Type	Columns
PK_CustomerDemographi cs	Unique	CustomerTypeID

Check Constraints

None

Table: Customers**Columns**

Name	Type
 CustomerID	nchar(5)
CompanyName	nvarchar(40)
ContactName	nvarchar(30)
ContactTitle	nvarchar(30)
Address	nvarchar(60)
City	nvarchar(15)
Region	nvarchar(15)
PostalCode	nvarchar(10)
Country	nvarchar(15)
Phone	nvarchar(24)
Fax	nvarchar(24)

Relationships

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

Indexes

Name	Type	Columns
City	Non-unique	City
CompanyName	Non-unique	CompanyName
PK_Customers	Unique, Clustered	CustomerID
PostalCode	Non-unique	PostalCode
Region	Non-unique	Region


Referencing Views

Name
Customer and Suppliers by City
Invoices
Orders Qry
Quarterly Orders
Sales Totals by Amount

Check Constraints

None

Table: Employees**Columns**

Name	Type
 EmployeeID	int
LastName	nvarchar(20)
FirstName	nvarchar(10)
Title	nvarchar(30)
TitleOfCourtesy	nvarchar(25)
BirthDate	datetime
HireDate	datetime
Address	nvarchar(60)
City	nvarchar(15)
Region	nvarchar(15)
PostalCode	nvarchar(10)
Country	nvarchar(15)
HomePhone	nvarchar(24)
Extension	nvarchar(4)
Photo	image
Notes	ntext
ReportsTo	int
PhotoPath	nvarchar(255)

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Employees	EmployeeID	Orders	EmployeeID
Employees	EmployeeID	EmployeeTerritories	EmployeeID
Employees	EmployeeID	Employees	ReportsTo

Indexes

Name	Type	Columns
LastName	Non-unique	LastName
PK_Employees	Unique, Clustered	EmployeeID
PostalCode	Non-unique	PostalCode

Referencing Views

Name
Invoices

Check Constraints

Name	Check
CK_Birthdate	([BirthDate] < getdate())

Table: EmployeeTerritories**Columns**

Name	Type
EmployeeID	int
TerritoryID	nvarchar(20)

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Employees	EmployeeID	EmployeeTerritories	EmployeeID
Territories	TerritoryID	EmployeeTerritories	TerritoryID

Indexes

Name	Type	Columns
PK_EmployeeTerritories	Unique	EmployeeID, TerritoryID

Check Constraints

None

Table: Order Details**Columns**

Name	Type
OrderID	int
ProductID	int
UnitPrice	money
Quantity	smallint
Discount	real

Relationships

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

Indexes

Name	Type	Columns
OrderID	Non-unique	OrderID
OrdersOrder_Details	Non-unique	OrderID
PK_Order_Details	Unique, Clustered	OrderID, ProductID
ProductID	Non-unique	ProductID
ProductsOrder_Details	Non-unique	ProductID


Referencing Views

Name
Invoices
Order Details Extended
Order Subtotals
Product Sales for 1997

Check Constraints

Name	Check
CK_Discount	([Discount] >= 0 and [Discount] <= 1)
CK_Quantity	([Quantity] > 0)
CK_UnitPrice	([UnitPrice] >= 0)

Table: Orders**Columns**

Name	Type
 OrderID	int
CustomerID	nchar(5)
EmployeeID	int
OrderDate	datetime
RequiredDate	datetime
ShippedDate	datetime
ShipVia	int
Freight	money
ShipName	nvarchar(40)
ShipAddress	nvarchar(60)
ShipCity	nvarchar(15)
ShipRegion	nvarchar(15)
ShipPostalCode	nvarchar(10)
ShipCountry	nvarchar(15)

Relationships

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

Indexes

Name	Type	Columns
CustomerID	Non-unique	CustomerID
CustomersOrders	Non-unique	CustomerID
EmployeeID	Non-unique	EmployeeID
EmployeesOrders	Non-unique	EmployeeID
OrderDate	Non-unique	OrderDate
PK_Orders	Unique, Clustered	OrderID
ShippedDate	Non-unique	ShippedDate
ShippersOrders	Non-unique	ShipVia
ShipPostalCode	Non-unique	ShipPostalCode

Referencing Views


Name

Invoices
Orders Qry
Product Sales for 1997
Quarterly Orders
Sales by Category
Sales Totals by Amount
Summary of Sales by Quarter
Summary of Sales by Year

Check Constraints

None

Table: Products**Columns**

Name	Type
 ProductID	int
ProductName	nvarchar(40)
SupplierID	int
CategoryID	int
QuantityPerUnit	nvarchar(20)
UnitPrice	money
UnitsInStock	smallint
UnitsOnOrder	smallint
ReorderLevel	smallint
Discontinued	bit

Relationships

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

Indexes

Name	Type	Columns
CategoriesProducts	Non-unique	CategoryID
CategoryID	Non-unique	CategoryID
PK_Products	Unique, Clustered	ProductID
ProductName	Non-unique	ProductName
SupplierID	Non-unique	SupplierID
SuppliersProducts	Non-unique	SupplierID

Referencing Views


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

Check Constraints

Name	Check
CK_Products_UnitPrice	([UnitPrice] >= 0)
CK_ReorderLevel	([ReorderLevel] >= 0)
CK_UnitsInStock	([UnitsInStock] >= 0)
CK_UnitsOnOrder	([UnitsOnOrder] >= 0)

Table: Region

Columns

Name	Type
 RegionID	int
RegionDescription	nchar(50)

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Region	RegionID	Territories	RegionID

Indexes

Name	Type	Columns
PK_Region	Unique	RegionID

Check Constraints

None

Table: Shippers

Columns

Name	Type
ShipperID	int
CompanyName	nvarchar(40)
Phone	nvarchar(24)

Relationships

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

Indexes

Name	Type	Columns
PK_Shippers	Unique, Clustered	ShipperID


Referencing Views

Name
Invoices

Check Constraints

None

Table: Suppliers**Columns**

Name	Type
 SupplierID	int
CompanyName	nvarchar(40)
ContactName	nvarchar(30)
ContactTitle	nvarchar(30)
Address	nvarchar(60)
City	nvarchar(15)
Region	nvarchar(15)
PostalCode	nvarchar(10)
Country	nvarchar(15)
Phone	nvarchar(24)
Fax	nvarchar(24)
HomePage	ntext

Relationships

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

Indexes

Name	Type	Columns
CompanyName	Non-unique	CompanyName
PK_Suppliers	Unique, Clustered	SupplierID
PostalCode	Non-unique	PostalCode


Referencing Views

Name
Customer and Suppliers by City

Check Constraints

None

Table: Territories**Columns**

Name	Type
 TerritoryID	nvarchar(20)
TerritoryDescription	nchar(50)
RegionID	int

Relationships

Primary Table	Primary Key	Foreign Table	Foreign Key
Region	RegionID	Territories	RegionID
Territories	TerritoryID	EmployeeTerritories	TerritoryID

Indexes

Name	Type	Columns
PK_Territories	Unique	TerritoryID

Check Constraints

None

Views: Northwind

Views

Name
Alphabetical list of products
Category Sales for 1997
Current Product List
Customer and Suppliers by City
Invoices
Order Details Extended
Order Subtotals
Orders Qry
Product Sales for 1997
Products Above Average Price
Products by Category
Quarterly Orders
Sales by Category
Sales Totals by Amount
Summary of Sales by Quarter
Summary of Sales by Year

View: Alphabetical list of products

Columns

Name	Type
ProductID	int
ProductName	nvarchar
SupplierID	int
CategoryID	int
QuantityPerUnit	nvarchar
UnitPrice	money
UnitsInStock	smallint
UnitsOnOrder	smallint
ReorderLevel	smallint
Discontinued	bit
CategoryName	nvarchar

Tables Referenced

Name
Categories
Products

Definition

```
create view "Alphabetical list of products" AS
SELECT Products.*, Categories.CategoryName
FROM Categories INNER JOIN Products ON Categories.CategoryID = Products.CategoryID
WHERE (((Products.Discontinued)=0))
```

View: Category Sales for 1997

Columns

Name	Type
CategoryName	nvarchar
CategorySales	money

Definition

```
create view "Category Sales for 1997" AS
SELECT "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

Columns

Name	Type
ProductID	int
ProductName	nvarchar

Tables Referenced

Name
Products

Definition

```
create view "Current Product List" AS
SELECT Product_List.ProductID, Product_List.ProductName
FROM Products AS Product_List
WHERE (((Product_List.Discontinued)=0))
--ORDER BY Product_List.ProductName
```


View: Customer and Suppliers by City

Columns

Name	Type
City	nvarchar
CompanyName	nvarchar
ContactName	nvarchar
Relationship	varchar

Tables Referenced

Name
Customers
Suppliers

Definition

```
create view "Customer and Suppliers by City" AS
SELECT City, CompanyName, ContactName, 'Customers' AS Relationship
FROM Customers
UNION SELECT City, CompanyName, ContactName, 'Suppliers'
FROM Suppliers
--ORDER BY City, CompanyName
```

View: Invoices**Columns**

Name	Type
ShipName	nvarchar
ShipAddress	nvarchar
ShipCity	nvarchar
ShipRegion	nvarchar
ShipPostalCode	nvarchar
ShipCountry	nvarchar
CustomerID	nchar
CustomerName	nvarchar
Address	nvarchar
City	nvarchar
Region	nvarchar
PostalCode	nvarchar
Country	nvarchar
Salesperson	nvarchar
OrderID	int
OrderDate	datetime
RequiredDate	datetime
ShippedDate	datetime
ShipperName	nvarchar
ProductID	int
ProductName	nvarchar
UnitPrice	money
Quantity	smallint
Discount	real
ExtendedPrice	money
Freight	money

Tables Referenced

Name
Customers
Employees
Order Details
Orders
Products
Shippers

Definition

Sample Output from TechWriter 2007 for Databases

Northwind Database

```
create view Invoices AS
SELECT Orders.ShipName, Orders.ShipAddress, Orders.ShipCity, Orders.ShipRegion,
Orders.ShipPostalCode,
    Orders.ShipCountry, Orders.CustomerID, Customers.CompanyName AS CustomerName,
Customers.Address, Customers.City,
    Customers.Region, Customers.PostalCode, Customers.Country,
    (FirstName + ' ' + LastName) AS Salesperson,
    Orders.OrderID, Orders.OrderDate, Orders.RequiredDate, Orders.ShippedDate,
Shippers.CompanyName As ShipperName,
    "Order Details".ProductID, Products.ProductName, "Order Details".UnitPrice, "Order Details".Quantity,
    "Order Details".Discount,
    (CONVERT(money,("Order Details".UnitPrice*Quantity*(1-Discout)/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: Order Details Extended

Columns

Name	Type
OrderID	int
ProductID	int
ProductName	nvarchar
UnitPrice	money
Quantity	smallint
Discount	real
ExtendedPrice	money

Tables Referenced

Name
Order Details
Products

Definition

```
create view "Order Details Extended" AS
SELECT "Order Details".OrderID, "Order Details".ProductID, Products.ProductName,
       "Order Details".UnitPrice, "Order Details".Quantity, "Order Details".Discount,
       (CONVERT(money,("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

Columns

Name	Type
OrderID	int
Subtotal	money

Tables Referenced

Name
Order Details

Definition

```
create view "Order Subtotals" AS
SELECT "Order Details".OrderID, Sum(CONVERT(money,("Order
Details".UnitPrice*Quantity*(1-Discout)/100))*100) AS Subtotal
FROM "Order Details"
GROUP BY "Order Details".OrderID
```

View: Orders Qry

Columns

Name	Type
OrderID	int
CustomerID	nchar
EmployeeID	int
OrderDate	datetime
RequiredDate	datetime
ShippedDate	datetime
ShipVia	int
Freight	money
ShipName	nvarchar
ShipAddress	nvarchar
ShipCity	nvarchar
ShipRegion	nvarchar
ShipPostalCode	nvarchar
ShipCountry	nvarchar
CompanyName	nvarchar
Address	nvarchar
City	nvarchar
Region	nvarchar
PostalCode	nvarchar
Country	nvarchar

Tables Referenced

Name
Customers
Orders

Definition

```

create view "Orders Qry" AS
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**Columns**

Name	Type
CategoryName	nvarchar
ProductName	nvarchar
ProductSales	money

Tables Referenced

Name
Categories
Order Details
Orders
Products

Definition

```

create view "Product Sales for 1997" AS
SELECT Categories.CategoryName, Products.ProductName,
Sum(CONVERT(money,("Order Details".UnitPrice*Quantity*(1-Discount)/100))*100) AS ProductSales
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 '19970101' And '19971231'))
GROUP BY Categories.CategoryName, Products.ProductName

```

View: Products Above Average Price

Columns

Name	Type
ProductName	nvarchar
UnitPrice	money

Tables Referenced

Name
Products

Definition

```
create view "Products Above Average Price" AS
SELECT Products.ProductName, Products.UnitPrice
FROM Products
WHERE Products.UnitPrice>(SELECT AVG(UnitPrice) From Products)
--ORDER BY Products.UnitPrice DESC
```


View: Products by Category

Columns

Name	Type
CategoryName	nvarchar
ProductName	nvarchar
QuantityPerUnit	nvarchar
UnitsInStock	smallint
Discontinued	bit

Tables Referenced

Name
Categories
Products

Definition

```
create view "Products by Category" AS
SELECT Categories.CategoryName, Products.ProductName, Products.QuantityPerUnit, Products.UnitsInStock,
Products.Discontinued
FROM Categories INNER JOIN Products ON Categories.CategoryID = Products.CategoryID
WHERE Products.Discontinued <> 1
--ORDER BY Categories.CategoryName, Products.ProductName
```

View: Quarterly Orders

Columns

Name	Type
CustomerID	nchar
CompanyName	nvarchar
City	nvarchar
Country	nvarchar

Tables Referenced

Name
Customers
Orders

Definition

```
create view "Quarterly Orders" AS
SELECT DISTINCT Customers.CustomerID, Customers.CompanyName, Customers.City, Customers.Country
FROM Customers RIGHT JOIN Orders ON Customers.CustomerID = Orders.CustomerID
WHERE Orders.OrderDate BETWEEN '19970101' And '19971231'
```

View: Sales by Category

Columns

Name	Type
CategoryID	int
CategoryName	nvarchar
ProductName	nvarchar
ProductSales	money

Tables Referenced

Name
Categories
Orders
Products

Definition

```

create view "Sales by Category" AS
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 '19970101' And '19971231'
GROUP BY Categories.CategoryID, Categories.CategoryName, Products.ProductName
--ORDER BY Products.ProductName

```

View: Sales Totals by Amount

Columns

Name	Type
SaleAmount	money
OrderID	int
CompanyName	nvarchar
ShippedDate	datetime

Tables Referenced

Name
Customers
Orders

Definition

```
create view "Sales Totals by Amount" AS
SELECT "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 '19970101' And '19971231')
```

View: Summary of Sales by Quarter

Columns

Name	Type
ShippedDate	datetime
OrderID	int
Subtotal	money

Tables Referenced

Name
Orders

Definition

```
create view "Summary of Sales by Quarter" AS
SELECT 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

Columns

Name	Type
ShippedDate	datetime
OrderID	int
Subtotal	money

Tables Referenced

Name
Orders

Definition

```
create view "Summary of Sales by Year" AS
SELECT 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
```

Functions: Northwind

Functions

Name
ISOweek

Function: ISOweek

Parameters

Name	Type	Direction
@DATE	datetime	Input

Returns

A value of type int.

Procedures: Northwind

Procedures

Name
CustOrderHist
CustOrdersDetail
CustOrdersOrders
Employee Sales by Country
Sales by Year
SalesByCategory
Ten Most Expensive Products

Procedure: CustOrderHist

Parameters

Name	Type	Direction
@CustomerID	nchar	Input

Procedure: CustOrdersDetail

Parameters

Name	Type	Direction
@OrderID	int	Input

Procedure: CustOrdersOrders

Parameters

Name	Type	Direction
@CustomerID	nchar	Input

Procedure: Employee Sales by Country

Parameters

Name	Type	Direction
@Beginning_Date	datetime	Input
@Ending_Date	datetime	Input

Procedure: Sales by Year

Parameters

Name	Type	Direction
@Beginning_Date	datetime	Input
@Ending_Date	datetime	Input

Procedure: SalesByCategory

Parameters

Name	Type	Direction
@CategoryName	nvarchar	Input
@OrdYear	nvarchar	Input

Procedure: Ten Most Expensive Products

Parameters

None.

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