Northwind Database

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Northwind Database

Description

This database reference documents the Northwind database.

See Also

Tables

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	Description of the category.
Picture	Binary	A picture representing the food category.

Relationships

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

Indexes

Name	Type	Columns
	Unique	CategoryName
PrimaryKey	Unique	CategoryID

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)	Name of city where customer is located.
CompanyName	Text(40)	Name of customer company.
ContactName	Text(30)	Name of contact person.
ContactTitle	Text(30)	Title of contact person.
Country	Text(15)	Name of country where customer is located.
🔑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)	ZIP code where customer is located.
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

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	Employee's date of birth.
City	Text(15)	Name of city where employee lives.
Country	Text(15)	Name of country where employee lives.
🔑 EmployeeID	AutoNumber	Number automatically assigned to new employee.
Extension	Text(4)	Internal telephone extension number.
FirstName	Text(10)	First name of employee.
HireDate	Date/Time	Date that employee was hired.
HomePhone	Text(24)	Phone number includes country code or area code.
LastName	Text(20)	Last name of employee.
Notes	Memo	General information about employee's background.
Photo	Text(255)	Picture of employee.
PostalCode	Text(10)	ZIP code where employee lives.
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

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	Discount percentage applied.
🔑 OrderID	Long Integer	Same as Order ID in Orders table.
🔑 ProductID	Long Integer	Same as Product ID in Products table.
Quantity	Integer	Number of units.
UnitPrice	Currency	Price per unit.

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	OrderID
	Non-unique	ProductID
	Non-unique	ProductID

Check Constraints

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

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	Shipping cost.
OrderDate	Date/Time	Date of order.
🔑OrderID	AutoNumber	Unique order number.
RequiredDate	Date/Time	Required by date.
ShipAddress	Text(60)	Street address only -- no post-office box allowed.
ShipCity	Text(15)	Name of city where order was shipped.
ShipCountry	Text(15)	Name of country where order was shipped.
ShipName	Text(40)	Name of person or company to receive the shipment.
ShippedDate	Date/Time	Date that order was shipped.
ShipPostalCode	Text(10)	ZIP code where order was shipped.
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
Shippers	ShipperID	Orders	ShipVia
Orders	OrderID	Order Details	OrderID

Indexes

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

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)	Name of the product
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	Price per unit.
UnitsInStock	Integer	Number of units in stock.
UnitsOnOrder	Integer	Number of units on order.

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
PrimaryKey	Unique	ProductID
	Non-unique	CategoryID
	Non-unique	CategoryID
	Non-unique	ProductName
	Non-unique	SupplierID
	Non-unique	SupplierID

Check Constraints

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

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)	Name of city where supplier is located.
CompanyName	Text(40)	Name of supplier.
ContactName	Text(30)	Name of contact person at supplier.
ContactTitle	Text(30)	Title of contact person at supplier.
Country	Text(15)	Name of country where supplier is located.
Fax	Text(24)	Phone number includes country code or area code.
HomePage	Memo	Supplier's home page on World Wide Web.
Phone	Text(24)	Phone number includes country code or area code.
PostalCode	Text(10)	ZIP code where supplier is located.
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

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