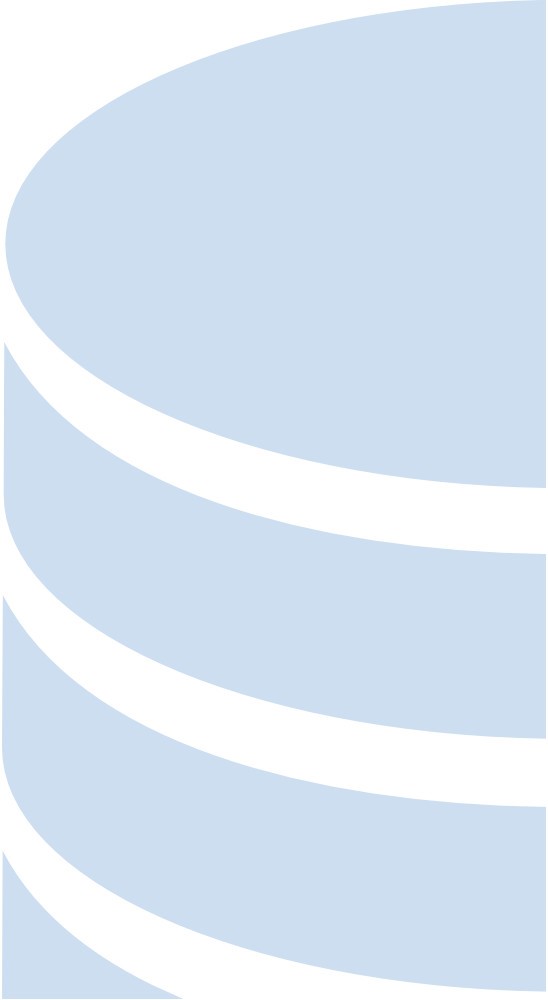
Dataedo

AdventureWorks

Data Dictionary

2017-05-30

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Table of Contents

[1. AdventureWorks 7](#_Toc342235)

[2. Business Entities 8](#_Toc342236)

[3. People 9](#_Toc342237)

[3.1. Tables 9](#_Toc342238)

[3.1.1. Table: Person.Address 9](#_Toc342239)

[3.1.2. Table: Person.AddressType 10](#_Toc342240)

[3.1.3. Table: Person.BusinessEntity 11](#_Toc342241)

[3.1.4. Table: Person.BusinessEntityAddress 12](#_Toc342242)

[3.1.5. Table: Person.BusinessEntityContact 13](#_Toc342243)

[3.1.6. Table: Person.ContactType 14](#_Toc342244)

[3.1.7. Table: Person.CountryRegion 14](#_Toc342245)

[3.1.8. Table: Person.EmailAddress 15](#_Toc342246)

[3.1.9. Table: Person.Password 16](#_Toc342247)

[3.1.10. Table: Person.Person 16](#_Toc342248)

[3.1.11. Table: Person.PersonPhone 18](#_Toc342249)

[3.1.12. Table: Person.PhoneNumberType 19](#_Toc342250)

[3.1.13. Table: Person.StateProvince 19](#_Toc342251)

[3.2. Views 21](#_Toc342252)

[3.2.1. View: Person.vAdditionalContactInfo 21](#_Toc342253)

[3.2.2. View: Person.vStateProvinceCountryRegion 21](#_Toc342254)

[4. Human Resources 23](#_Toc342255)

[4.1. Tables 23](#_Toc342256)

[4.1.1. Table: HumanResources.Department 23](#_Toc342257)

[4.1.2. Table: HumanResources.Employee 24](#_Toc342258)

[4.1.3. Table: HumanResources.EmployeeDepartmentHistory 26](#_Toc342259)

[4.1.4. Table: HumanResources.EmployeePayHistory 27](#_Toc342260)

[4.1.5. Table: HumanResources.JobCandidate 27](#_Toc342261)

[4.1.6. Table: HumanResources.Shift 28](#_Toc342262)

[4.2. Views 29](#_Toc342263)

[4.2.1. View: HumanResources.vEmployee 29](#_Toc342264)

[4.2.2. View: HumanResources.vEmployeeDepartment 29](#_Toc342265)

[4.2.3. View: HumanResources.vEmployeeDepartmentHistory 30](#_Toc342266)

[4.2.4. View: HumanResources.vJobCandidate 30](#_Toc342267)

[4.2.5. View: HumanResources.vJobCandidateEducation 31](#_Toc342268)

[4.2.6. View: HumanResources.vJobCandidateEmployment 31](#_Toc342269)

[4.3. Procedures 32](#_Toc342270)

[4.3.1. Procedure: dbo.uspGetEmployeeManagers 32](#_Toc342271)

[4.3.2. Procedure: dbo.uspGetManagerEmployees 32](#_Toc342272)

[4.3.3. Procedure: dbo.uspSearchCandidateResumes 32](#_Toc342273)

[4.3.4. Procedure: HumanResources.uspUpdateEmployeeHireInfo 32](#_Toc342274)

[4.3.5. Procedure: HumanResources.uspUpdateEmployeeLogin 33](#_Toc342275)

[4.3.6. Procedure: HumanResources.uspUpdateEmployeePersonalInfo 33](#_Toc342276)

[4.4. Functions 33](#_Toc342277)

[4.4.1. Function: dbo.ufnGetContactInformation 33](#_Toc342278)

[5. Products 34](#_Toc342279)

[5.1. Tables 34](#_Toc342280)

[5.1.1. Table: Production.Culture 34](#_Toc342281)

[5.1.2. Table: Production.Document 35](#_Toc342282)

[5.1.3. Table: Production.Illustration 36](#_Toc342283)

[5.1.4. Table: Production.Product 36](#_Toc342284)

[5.1.5. Table: Production.ProductCategory 39](#_Toc342285)

[5.1.6. Table: Production.ProductDescription 40](#_Toc342286)

[5.1.7. Table: Production.ProductDocument 41](#_Toc342287)

[5.1.8. Table: Production.ProductModel 42](#_Toc342288)

[5.1.9. Table: Production.ProductModelIllustration 42](#_Toc342289)

[5.1.10. Table: Production.ProductModelProductDescriptionCulture 43](#_Toc342290)

[5.1.11. Table: Production.ProductPhoto 44](#_Toc342291)

[5.1.12. Table: Production.ProductProductPhoto 45](#_Toc342292)

[5.1.13. Table: Production.ProductReview 45](#_Toc342293)

[5.1.14. Table: Production.ProductSubcategory 46](#_Toc342294)

[5.1.15. Table: Production.UnitMeasure 47](#_Toc342295)

[5.2. Views 48](#_Toc342296)

[5.2.1. View: Production.vProductAndDescription 48](#_Toc342297)

[5.2.2. View: Production.vProductModelCatalogDescription 48](#_Toc342298)

[5.2.3. View: Production.vProductModelInstructions 49](#_Toc342299)

[5.3. Procedures 49](#_Toc342300)

[5.3.1. Procedure: dbo.uspGetBillOfMaterials 49](#_Toc342301)

[5.3.2. Procedure: dbo.uspGetWhereUsedProductID 50](#_Toc342302)

[5.4. Functions 50](#_Toc342303)

[5.4.1. Function: dbo.ufnGetDocumentStatusText 50](#_Toc342304)

[5.4.2. Function: dbo.ufnGetProductDealerPrice 50](#_Toc342305)

[5.4.3. Function: dbo.ufnGetProductListPrice 50](#_Toc342306)

[5.4.4. Function: dbo.ufnGetProductStandardCost 51](#_Toc342307)

[5.4.5. Function: dbo.ufnGetStock 51](#_Toc342308)

[6. Manufacturing 52](#_Toc342309)

[6.1. Tables 52](#_Toc342310)

[6.1.1. Table: Production.BillOfMaterials 52](#_Toc342311)

[6.1.2. Table: Production.ProductCostHistory 53](#_Toc342312)

[6.1.3. Table: Production.ProductListPriceHistory 54](#_Toc342313)

[6.1.4. Table: Production.ScrapReason 55](#_Toc342314)

[6.1.5. Table: Production.TransactionHistory 55](#_Toc342315)

[6.1.6. Table: Production.TransactionHistoryArchive 56](#_Toc342316)

[6.1.7. Table: Production.WorkOrder 57](#_Toc342317)

[6.1.8. Table: Production.WorkOrderRouting 58](#_Toc342318)

[7. Purchasing 60](#_Toc342319)

[7.1. Tables 60](#_Toc342320)

[7.1.1. Table: Purchasing.ProductVendor 60](#_Toc342321)

[7.1.2. Table: Purchasing.PurchaseOrderDetail 61](#_Toc342322)

[7.1.3. Table: Purchasing.PurchaseOrderHeader 62](#_Toc342323)

[7.1.4. Table: Purchasing.ShipMethod 64](#_Toc342324)

[7.1.5. Table: Purchasing.Vendor 65](#_Toc342325)

[7.2. Views 66](#_Toc342326)

[7.2.1. View: Purchasing.vVendorWithAddresses 66](#_Toc342327)

[7.2.2. View: Purchasing.vVendorWithContacts 66](#_Toc342328)

[7.3. Functions 67](#_Toc342329)

[7.3.1. Function: dbo.ufnGetPurchaseOrderStatusText 67](#_Toc342330)

[8. Inventory 68](#_Toc342331)

[8.1. Tables 68](#_Toc342332)

[8.1.1. Table: Production.Location 68](#_Toc342333)

[8.1.2. Table: Production.ProductInventory 69](#_Toc342334)

[9. Sales 71](#_Toc342335)

[9.1. Tables 71](#_Toc342336)

[9.1.1. Table: Sales.CountryRegionCurrency 71](#_Toc342337)

[9.1.2. Table: Sales.CreditCard 72](#_Toc342338)

[9.1.3. Table: Sales.Currency 73](#_Toc342339)

[9.1.4. Table: Sales.CurrencyRate 73](#_Toc342340)

[9.1.5. Table: Sales.Customer 74](#_Toc342341)

[9.1.6. Table: Sales.PersonCreditCard 76](#_Toc342342)

[9.1.7. Table: Sales.SalesOrderDetail 76](#_Toc342343)

[9.1.8. Table: Sales.SalesOrderHeader 77](#_Toc342344)

[9.1.9. Table: Sales.SalesOrderHeaderSalesReason 80](#_Toc342345)

[9.1.10. Table: Sales.SalesPerson 81](#_Toc342346)

[9.1.11. Table: Sales.SalesPersonQuotaHistory 82](#_Toc342347)

[9.1.12. Table: Sales.SalesReason 83](#_Toc342348)

[9.1.13. Table: Sales.SalesTaxRate 83](#_Toc342349)

[9.1.14. Table: Sales.SalesTerritory 84](#_Toc342350)

[9.1.15. Table: Sales.SalesTerritoryHistory 86](#_Toc342351)

[9.1.16. Table: Sales.ShoppingCartItem 86](#_Toc342352)

[9.1.17. Table: Sales.SpecialOffer 87](#_Toc342353)

[9.1.18. Table: Sales.SpecialOfferProduct 88](#_Toc342354)

[9.1.19. Table: Sales.Store 89](#_Toc342355)

[9.2. Views 90](#_Toc342356)

[9.2.1. View: Sales.vIndividualCustomer 90](#_Toc342357)

[9.2.2. View: Sales.vPersonDemographics 91](#_Toc342358)

[9.2.3. View: Sales.vSalesPerson 91](#_Toc342359)

[9.2.4. View: Sales.vSalesPersonSalesByFiscalYears 92](#_Toc342360)

[9.2.5. View: Sales.vStoreWithAddresses 92](#_Toc342361)

[9.2.6. View: Sales.vStoreWithContacts 93](#_Toc342362)

[9.2.7. View: Sales.vStoreWithDemographics 93](#_Toc342363)

[9.3. Functions 94](#_Toc342364)

[9.3.1. Function: dbo.ufnGetAccountingEndDate 94](#_Toc342365)

[9.3.2. Function: dbo.ufnGetAccountingStartDate 94](#_Toc342366)

[9.3.3. Function: dbo.ufnGetSalesOrderStatusText 94](#_Toc342367)

[9.3.4. Function: dbo.ufnLeadingZeros 94](#_Toc342368)

[10. Admin 95](#_Toc342369)

[10.1. Tables 95](#_Toc342370)

[10.1.1. Table: dbo.AWBuildVersion 95](#_Toc342371)

[10.1.2. Table: dbo.DatabaseLog 95](#_Toc342372)

[10.1.3. Table: dbo.ErrorLog 95](#_Toc342373)

[10.2. Procedures 96](#_Toc342374)

[10.2.1. Procedure: dbo.uspLogError 96](#_Toc342375)

[10.2.2. Procedure: dbo.uspPrintError 96](#_Toc342376)

Legend

 Primary key

 Primary key disabled

 User-defined primary key

 Unique key

 Unique key disabled

 User-defined unique key

 Active trigger

 Disabled trigger

 Primary key relation

 User-defined primary key relation

 Foreign key relation

 User-defined foreign key relation

 Input

 Output

 Input/Output

 Nullable

# 1. AdventureWorks

This is a sample Dataedo documentation - **AdventureWorks** - Microsoft SQL Server sample database.

The AdventureWorks database supports standard online transaction processing scenarios for a fictitious bicycle manufacturer (Adventure Works Cycles). Scenarios include Manufacturing, Sales, Purchasing, Product Management, Contact Management, and Human Resources.

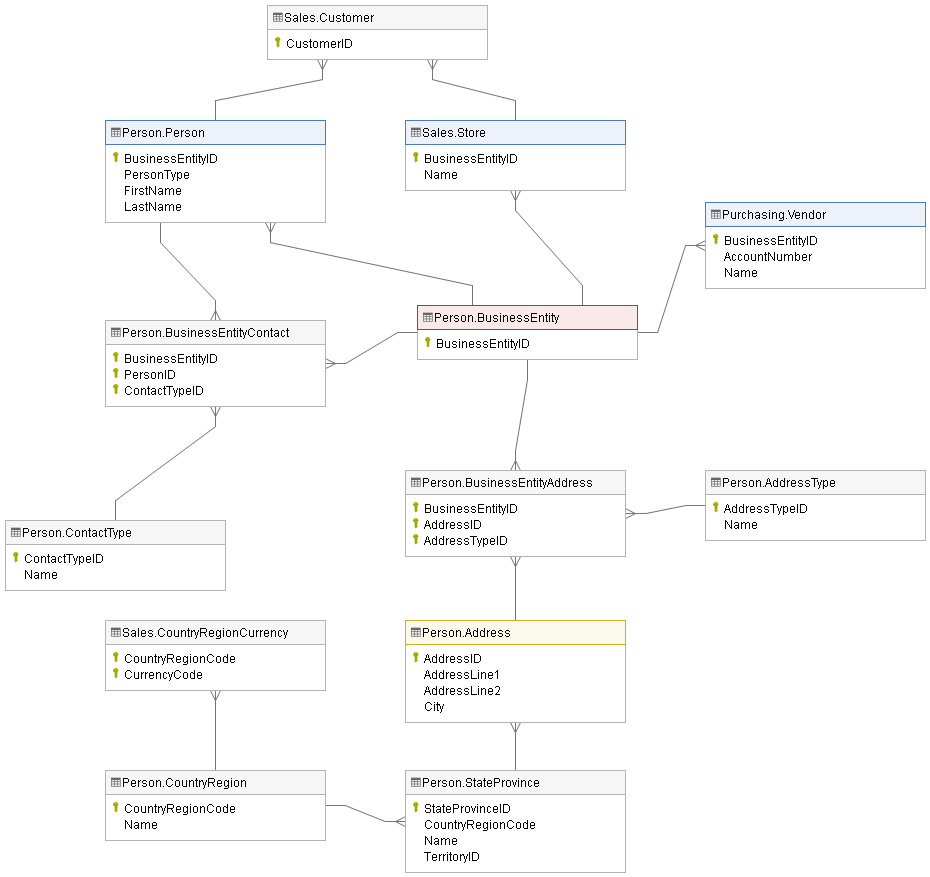
You can download AdventureWorks database here:

· [AdventureWorks for SQL Server 2014 (CodePlex)](https://msftdbprodsamples.codeplex.com/releases/view/125550)

· [AdventureWorks for SQL Server 2012 (CodePlex)](https://msftdbprodsamples.codeplex.com/releases/view/55330)

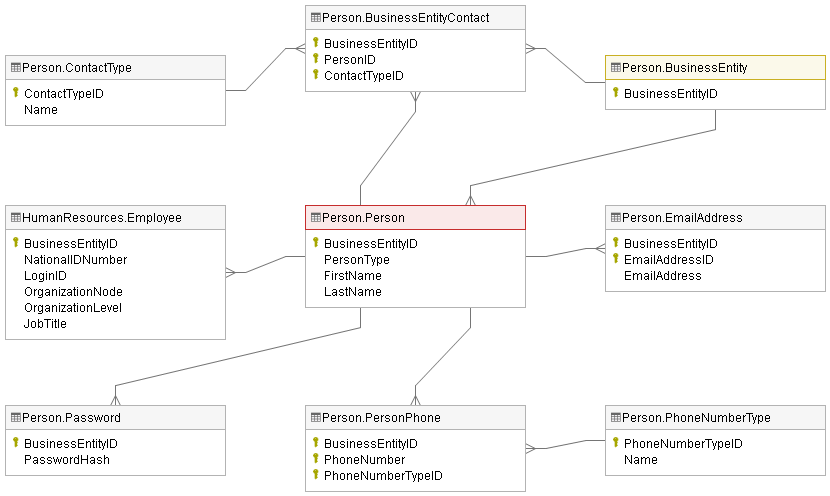
· [AdventureWorks for SQL Server 2008R2 (CodePlex)](https://msftdbprodsamples.codeplex.com/releases/view/59211)

# 2. Business Entities



Vendors, customers, and employees have common tables for addresses and contacts. Those tables are linked to one table - BusinessEntity that holds ID for all vendors, customers, and employees tables.

# 3. People



Names and addresses of individual customers, vendors, and employees.

### 3.1. Tables

##### 3.1.1. Table: Person.Address

Street address information for customers, employees, and vendors.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | AddressID | int |  | Primary key for Address records.  Identity / Auto increment column |
|  | AddressLine1 | nvarchar(60) |  | First street address line. |
|  | AddressLine2 | nvarchar(60) |  | Second street address line. |
|  | City | nvarchar(30) |  | Name of the city. |
|  | StateProvinceID | int |  | Unique identification number for the state or province. Foreign key to StateProvince table. |
|  | PostalCode | nvarchar(15) |  | Postal code for the street address. |
|  | SpatialLocation | geography |  | Latitude and longitude of this address. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.StateProvince | Person.Address.StateProvinceID = Person.StateProvince.StateProvinceID | FK\_Address\_StateProvince\_StateProvinceID  Foreign key constraint referencing StateProvince.StateProvinceID. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.BusinessEntityAddress | Person.Address.AddressID =  Person.BusinessEntityAddress.AddressI  D | FK\_BusinessEntityAddress\_Address\_AddressID  Foreign key constraint referencing Address.AddressID. |
|  | Sales.SalesOrderHeader | Person.Address.AddressID =  Sales.SalesOrderHeader.BillToAddressI  D | FK\_SalesOrderHeader\_Address\_BillToAddressID  Foreign key constraint referencing Address.AddressID. |
|  | Sales.SalesOrderHeader | Person.Address.AddressID =  Sales.SalesOrderHeader.ShipToAddres sID | FK\_SalesOrderHeader\_Address\_ShipToAddressID  Foreign key constraint referencing Address.AddressID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | AddressID | PK\_Address\_AddressID  Primary key (clustered) constraint |
|  | rowguid | AK\_Address\_rowguid  Unique nonclustered index. Used to support replication samples. |
|  | AddressLine1, AddressLine2, City, StateProvinceID, PostalCode | IX\_Address\_AddressLine1\_AddressLine2\_City\_StateProvinceID\_PostalCode Nonclustered index. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Person.Address |  |  |
| Person.StateProvince |  |  |

Used by

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Person.Address |  |  |
| Person.BusinessEntityAddress |  |  |
| Sales.SalesOrderHeader |  |  |
| Sales.SalesOrderHeader |  |  |

##### 3.1.2. Table: Person.AddressType

Types of addresses stored in the Address table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | AddressTypeID | int |  | Primary key for AddressType records. Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Address type description. For example, Billing, Home, or Shipping. |
|  | Name | Data type | N | Description / Attributes |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.BusinessEntityAddress | Person.AddressType.AddressTypeID =  Person.BusinessEntityAddress.Address TypeID | FK\_BusinessEntityAddress\_AddressType\_AddressTypeID  Foreign key constraint referencing AddressType.AddressTypeID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | AddressTypeID | PK\_AddressType\_AddressTypeID Primary key (clustered) constraint |
|  | Name | AK\_AddressType\_Name  Unique nonclustered index. |
|  | rowguid | AK\_AddressType\_rowguid  Unique nonclustered index. Used to support replication samples. |

Used by

|  |  |
| --- | --- |
|  | Name |
| Person.AddressType |  |
| Person.BusinessEntityAddress |  |

##### 3.1.3. Table: Person.BusinessEntity

Source of the ID that connects vendors, customers, and employees with address and contact information.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Primary key for all customers, vendors, and employees. Identity / Auto increment column |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.BusinessEntityAddress | Person.BusinessEntity.BusinessEntityID  =  Person.BusinessEntityAddress.Business EntityID | FK\_BusinessEntityAddress\_BusinessEntity\_BusinessEntityID  Foreign key constraint referencing BusinessEntity.BusinessEntityID. |
|  | Person.BusinessEntityContact | Person.BusinessEntity.BusinessEntityID  =  Person.BusinessEntityContact.Business EntityID | FK\_BusinessEntityContact\_BusinessEntity\_BusinessEntityID  Foreign key constraint referencing BusinessEntity.BusinessEntityID. |
|  | Table | Join | Title / Name / Description |
|  | Person.Person | Person.BusinessEntity.BusinessEntityID = Person.Person.BusinessEntityID | FK\_Person\_BusinessEntity\_BusinessEntityID  Foreign key constraint referencing BusinessEntity.BusinessEntityID. |
|  | Sales.Store | Person.BusinessEntity.BusinessEntityID = Sales.Store.BusinessEntityID | FK\_Store\_BusinessEntity\_BusinessEntityID  Foreign key constraint referencing BusinessEntity.BusinessEntityID |
|  | Purchasing.Vendor | Person.BusinessEntity.BusinessEntityID = Purchasing.Vendor.BusinessEntityID | FK\_Vendor\_BusinessEntity\_BusinessEntityID  Foreign key constraint referencing BusinessEntity.BusinessEntityID |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID | PK\_BusinessEntity\_BusinessEntityID Primary key (clustered) constraint |
|  | rowguid | AK\_BusinessEntity\_rowguid  Unique nonclustered index. Used to support replication samples. |

Used by

|  |  |
| --- | --- |
|  | Name |
| Person.BusinessEntity |  |
| Person.BusinessEntityAddress |  |
| Person.BusinessEntityContact |  |
| Person.Person |  |
| Purchasing.Vendor |  |
| Sales.Store |  |

##### 3.1.4. Table: Person.BusinessEntityAddress

Cross-reference table mapping customers, vendors, and employees to their addresses.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Primary key. Foreign key to BusinessEntity.BusinessEntityID. |
|  | AddressID | int |  | Primary key. Foreign key to Address.AddressID. |
|  | AddressTypeID | int |  | Primary key. Foreign key to AddressType.AddressTypeID. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.Address | Person.BusinessEntityAddress.AddressI D = Person.Address.AddressID | FK\_BusinessEntityAddress\_Address\_AddressID  Foreign key constraint referencing Address.AddressID. |
|  | Person.AddressType | Person.BusinessEntityAddress.Address  TypeID =  Person.AddressType.AddressTypeID | FK\_BusinessEntityAddress\_AddressType\_AddressTypeID  Foreign key constraint referencing AddressType.AddressTypeID. |
|  | Person.BusinessEntity | Person.BusinessEntityAddress.Business  EntityID =  Person.BusinessEntity.BusinessEntityID | FK\_BusinessEntityAddress\_BusinessEntity\_BusinessEntityID  Foreign key constraint referencing BusinessEntity.BusinessEntityID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID, AddressID, AddressTypeID | PK\_BusinessEntityAddress\_BusinessEntityID\_AddressID\_AddressTypeID Primary key (clustered) constraint |
|  | rowguid | AK\_BusinessEntityAddress\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |  |
| --- | --- |
|  | Name |
| Person.BusinessEntityAddress |  |
| Person.Address |  |
| Person.AddressType |  |
| Person.BusinessEntity |  |

##### 3.1.5. Table: Person.BusinessEntityContact

Cross-reference table mapping stores, vendors, and employees to people

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Primary key. Foreign key to BusinessEntity.BusinessEntityID. |
|  | PersonID | int |  | Primary key. Foreign key to Person.BusinessEntityID. |
|  | ContactTypeID | int |  | Primary key. Foreign key to ContactType.ContactTypeID. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.BusinessEntity | Person.BusinessEntityContact.Business  EntityID =  Person.BusinessEntity.BusinessEntityID | FK\_BusinessEntityContact\_BusinessEntity\_BusinessEntityID  Foreign key constraint referencing BusinessEntity.BusinessEntityID. |
|  | Person.ContactType | Person.BusinessEntityContact.ContactT ypeID =  Person.ContactType.ContactTypeID | FK\_BusinessEntityContact\_ContactType\_ContactTypeID  Foreign key constraint referencing ContactType.ContactTypeID. |
|  | Person.Person | Person.BusinessEntityContact.PersonID = Person.Person.BusinessEntityID | FK\_BusinessEntityContact\_Person\_PersonID  Foreign key constraint referencing Person.BusinessEntityID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID, PersonID, ContactTypeID | PK\_BusinessEntityContact\_BusinessEntityID\_PersonID\_ContactTypeID Primary key (clustered) constraint |
|  | rowguid | AK\_BusinessEntityContact\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |
| --- |
| Name |
| Person.BusinessEntityContact |
| Person.BusinessEntity |
| Person.ContactType |
| Person.Person |

##### 3.1.6. Table: Person.ContactType

Lookup table containing the types of business entity contacts.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ContactTypeID | int |  | Primary key for ContactType records. Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Contact type description. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.BusinessEntityContact | Person.ContactType.ContactTypeID = Person.BusinessEntityContact.ContactT ypeID | FK\_BusinessEntityContact\_ContactType\_ContactTypeID  Foreign key constraint referencing ContactType.ContactTypeID. |

Unique keys

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columns |  |  | Name / Description |
|  | ContactTypeID | PK\_ContactType\_ContactTypeID Primary key (clustered) constraint |  |  |
|  | Name | AK\_ContactType\_Name  Unique nonclustered index. |  |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| Person.ContactType |  |
| Person.BusinessEntityContact |  |

##### 3.1.7. Table: Person.CountryRegion

Lookup table containing the ISO standard codes for countries and regions.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | CountryRegionCode | nvarchar(3) |  | ISO standard code for countries and regions. |
|  | Name | nvarchar(50) |  | Country or region name. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.CountryRegionCurrency | Person.CountryRegion.CountryRegion  Code =  Sales.CountryRegionCurrency.Country  RegionCode | FK\_CountryRegionCurrency\_CountryRegion\_CountryRegionCode  Foreign key constraint referencing  CountryRegion.CountryRegionCode. |
|  | Sales.SalesTerritory | Person.CountryRegion.CountryRegion  Code =  Sales.SalesTerritory.CountryRegionCo de | FK\_SalesTerritory\_CountryRegion\_CountryRegionCode  Foreign key constraint referencing  CountryRegion.CountryRegionCode. |
|  | Person.StateProvince | Person.CountryRegion.CountryRegion Code =  Person.StateProvince.CountryRegionC ode | FK\_StateProvince\_CountryRegion\_CountryRegionCode  Foreign key constraint referencing  CountryRegion.CountryRegionCode. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | CountryRegionCode | PK\_CountryRegion\_CountryRegionCode Primary key (clustered) constraint |  |
|  | Name | AK\_CountryRegion\_Name Unique nonclustered index. |  |

Used by

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Name |
| Person.CountryRegion |  |  |  |
| Person.StateProvince |  |  |  |
| Sales.CountryRegionCurrency |  |  |  |
| Sales.SalesTerritory |  |  |  |

##### 3.1.8. Table: Person.EmailAddress

Where to send a person email.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Primary key. Person associated with this email address. Foreign key to Person.BusinessEntityID |
|  | EmailAddressID | int |  | Primary key. ID of this email address. Identity / Auto increment column |
|  | EmailAddress | nvarchar(50) |  | E-mail address for the person. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.Person | Person.EmailAddress.BusinessEntityID = Person.Person.BusinessEntityID | FK\_EmailAddress\_Person\_BusinessEntityID  Foreign key constraint referencing Person.BusinessEntityID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID, EmailAddressID | PK\_EmailAddress\_BusinessEntityID\_EmailAddressID Primary key (clustered) constraint |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Person.EmailAddress |  |  |
| Person.Person |  |  |

##### 3.1.9. Table: Person.Password

One way hashed authentication information

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | PasswordHash | varchar(128) |  | Password for the e-mail account. |
|  | PasswordSalt | varchar(10) |  | Random value concatenated with the password string before the password is hashed. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.Person | Person.Password.BusinessEntityID = Person.Person.BusinessEntityID | FK\_Password\_Person\_BusinessEntityID  Foreign key constraint referencing Person.BusinessEntityID. |
| Unique keys | |  |  |
|  | Columns |  | Name / Description |
|  | BusinessEntityID | PK\_Password\_BusinessEntityID  Primary key (clustered) constraint |  |

Uses

|  |  |
| --- | --- |
|  | Name |
| Person.Password |  |
| Person.Person |  |

##### 3.1.10. Table: Person.Person

Human beings involved with AdventureWorks: employees, customer contacts, and vendor contacts.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  | Primary key for Person records. |
|  | Name | Data type | | N | Description / Attributes |
|  |  |  | |  | Primary type of person: SC = Store Contact, IN = Individual (retail) |
|  | PersonType | nchar(2) | |  | customer, SP = Sales person, EM = Employee (non-sales), VC = Vendor contact, GC = General contact |
|  |  |  | |  | 0 = The data in FirstName and LastName are stored in western style (first |
|  | NameStyle | bit | |  | name, last name) order. 1 = Eastern style (last name, first name) order. Default: 0 |
|  | Title | nvarchar(8) | |  | A courtesy title. For example, Mr. or Ms. |
|  | FirstName | nvarchar(50) | |  | First name of the person. |
|  | MiddleName | nvarchar(50) | |  | Middle name or middle initial of the person. |
|  | LastName | nvarchar(50) | |  | Last name of the person. |
|  | Suffix | nvarchar(10) | |  | Surname suffix. For example, Sr. or Jr. |
|  |  |  | |  | 0 = Contact does not wish to receive e-mail promotions, 1 = Contact does wish to receive e-mail promotions from AdventureWorks, 2 = Contact |
|  | EmailPromotion | int | |  | does wish to receive e-mail promotions from AdventureWorks and selected partners.  Default: 0 |
|  | AdditionalContactInfo | xml | |  | Additional contact information about the person stored in xml format. |
|  | Demographics | xml | |  | Personal information such as hobbies, and income collected from online shoppers. Used for sales analysis. |
|  |  |  | |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier | |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime | |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.BusinessEntity | Person.Person.BusinessEntityID =  Person.BusinessEntity.BusinessEntityID | FK\_Person\_BusinessEntity\_BusinessEntityID  Foreign key constraint referencing BusinessEntity.BusinessEntityID. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.BusinessEntityContact | Person.Person.BusinessEntityID =  Person.BusinessEntityContact.PersonID | FK\_BusinessEntityContact\_Person\_PersonID  Foreign key constraint referencing Person.BusinessEntityID. |
|  | Sales.Customer | Person.Person.BusinessEntityID = Sales.Customer.PersonID | FK\_Customer\_Person\_PersonID  Foreign key constraint referencing Person.BusinessEntityID. |
|  | Person.EmailAddress | Person.Person.BusinessEntityID =  Person.EmailAddress.BusinessEntityID | FK\_EmailAddress\_Person\_BusinessEntityID  Foreign key constraint referencing Person.BusinessEntityID. |
|  | HumanResources.Employee | Person.Person.BusinessEntityID = HumanResources.Employee.BusinessE ntityID | FK\_Employee\_Person\_BusinessEntityID  Foreign key constraint referencing Person.BusinessEntityID. |
|  | Person.Password | Person.Person.BusinessEntityID = Person.Password.BusinessEntityID | FK\_Password\_Person\_BusinessEntityID  Foreign key constraint referencing Person.BusinessEntityID. |
|  | Sales.PersonCreditCard | Person.Person.BusinessEntityID =  Sales.PersonCreditCard.BusinessEntityI  D | FK\_PersonCreditCard\_Person\_BusinessEntityID  Foreign key constraint referencing Person.BusinessEntityID. |
|  | Person.PersonPhone | Person.Person.BusinessEntityID =  Person.PersonPhone.BusinessEntityID | FK\_PersonPhone\_Person\_BusinessEntityID  Foreign key constraint referencing Person.BusinessEntityID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID | PK\_Person\_BusinessEntityID  Primary key (clustered) constraint |
|  | rowguid | AK\_Person\_rowguid  Unique nonclustered index. Used to support replication samples. |

Triggers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Name | When | Description |
|  |  |  |  | AFTER INSERT, UPDATE trigger inserting Individual only if the Customer does |
|  | iuPerson |  | After Insert, Update | not exist in the Store table and setting the ModifiedDate column in the Person table to the current date. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Person.Person |  |  |
| Person.BusinessEntity |  |  |

Used by

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Person.Person |  |  |
| HumanResources.Employee |  |  |
| Person.BusinessEntityContact |  |  |
| Person.EmailAddress |  |  |
| Person.Password |  |  |
| Person.PersonPhone |  |  |
| Sales.Customer |  |  |
| Sales.PersonCreditCard |  |  |

##### 3.1.11. Table: Person.PersonPhone

Telephone number and type of a person.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Business entity identification number. Foreign key to Person.BusinessEntityID. |
|  | PhoneNumber | nvarchar(25) |  | Telephone number identification number. |
|  | PhoneNumberTypeID | int |  | Kind of phone number. Foreign key to  PhoneNumberType.PhoneNumberTypeID. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.Person | Person.PersonPhone.BusinessEntityID = Person.Person.BusinessEntityID | FK\_PersonPhone\_Person\_BusinessEntityID  Foreign key constraint referencing Person.BusinessEntityID. |
|  | Table | Join | Title / Name / Description |
|  | Person.PhoneNumberType | Person.PersonPhone.PhoneNumberTy peID =  Person.PhoneNumberType.PhoneNu mberTypeID | FK\_PersonPhone\_PhoneNumberType\_PhoneNumberTypeID  Foreign key constraint referencing  PhoneNumberType.PhoneNumberTypeID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID, PhoneNumber, PhoneNumberTypeID | PK\_PersonPhone\_BusinessEntityID\_PhoneNumber\_PhoneNumberTypeID Primary key (clustered) constraint |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Person.PersonPhone |  |  |
| Person.Person |  |  |
| Person.PhoneNumberType |  |  |

##### 3.1.12. Table: Person.PhoneNumberType

Type of phone number of a person.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | PhoneNumberTypeID | int |  | Primary key for telephone number type records. Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Name of the telephone number type |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.PersonPhone | Person.PhoneNumberType.PhoneNu mberTypeID =  Person.PersonPhone.PhoneNumberTy peID | FK\_PersonPhone\_PhoneNumberType\_PhoneNumberTypeID  Foreign key constraint referencing  PhoneNumberType.PhoneNumberTypeID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | PhoneNumberTypeID | PK\_PhoneNumberType\_PhoneNumberTypeID  Primary key (clustered) constraint |

Used by

|  |  |
| --- | --- |
|  | Name |
| Person.PhoneNumberType |  |
| Person.PersonPhone |  |

##### 3.1.13. Table: Person.StateProvince

State and province lookup table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | StateProvinceID | int |  | Primary key for StateProvince records. Identity / Auto increment column |
|  | StateProvinceCode | nchar(3) |  | ISO standard state or province code. |
|  | CountryRegionCode | nvarchar(3) |  | ISO standard country or region code. Foreign key to CountryRegion.CountryRegionCode. |
|  |  |  |  | 0 = StateProvinceCode exists. 1 = StateProvinceCode unavailable, using |
|  | IsOnlyStateProvinceFlag | bit |  | CountryRegionCode.  Default: 1 |
|  | Name | nvarchar(50) |  | State or province description. |
|  | TerritoryID | int |  | ID of the territory in which the state or province is located. Foreign key to SalesTerritory.SalesTerritoryID. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.CountryRegion | Person.StateProvince.CountryRegionC ode =  Person.CountryRegion.CountryRegion Code | FK\_StateProvince\_CountryRegion\_CountryRegionCode  Foreign key constraint referencing  CountryRegion.CountryRegionCode. |
|  | Sales.SalesTerritory | Person.StateProvince.TerritoryID = Sales.SalesTerritory.TerritoryID | FK\_StateProvince\_SalesTerritory\_TerritoryID  Foreign key constraint referencing SalesTerritory.TerritoryID. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.Address | Person.StateProvince.StateProvinceID = Person.Address.StateProvinceID | FK\_Address\_StateProvince\_StateProvinceID  Foreign key constraint referencing StateProvince.StateProvinceID. |
|  | Sales.SalesTaxRate | Person.StateProvince.StateProvinceID = Sales.SalesTaxRate.StateProvinceID | FK\_SalesTaxRate\_StateProvince\_StateProvinceID  Foreign key constraint referencing StateProvince.StateProvinceID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | StateProvinceID | PK\_StateProvince\_StateProvinceID Primary key (clustered) constraint |
|  | Name | AK\_StateProvince\_Name  Unique nonclustered index. |
|  | rowguid | AK\_StateProvince\_rowguid  Unique nonclustered index. Used to support replication samples. |
|  | StateProvinceCode, CountryRegionCode | AK\_StateProvince\_StateProvinceCode\_CountryRegionCode Unique nonclustered index. |

Uses

|  |
| --- |
| Name |
| Person.StateProvince |
| Person.CountryRegion |
| Sales.SalesTerritory |

Used by

|  |
| --- |
| Name |
| Person.StateProvince |
| Person.Address |
| Sales.SalesTaxRate |

### 3.2. Views

##### 3.2.1. View: Person.vAdditionalContactInfo

Displays the contact name and content from each element in the xml column AdditionalContactInfo for that person.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | FirstName | nvarchar(50) |  |  |
|  | MiddleName | nvarchar(50) |  |  |
|  | LastName | nvarchar(50) |  |  |
|  | TelephoneNumber | nvarchar(50) |  |  |
|  | TelephoneSpecialInstructions | nvarchar(MAX) |  |  |
|  | Street | nvarchar(50) |  |  |
|  | City | nvarchar(50) |  |  |
|  | StateProvince | nvarchar(50) |  |  |
|  | PostalCode | nvarchar(50) |  |  |
|  | CountryRegion | nvarchar(50) |  |  |
|  | HomeAddressSpecialInstructions | nvarchar(MAX) |  |  |
|  | EMailAddress | nvarchar(128) |  |  |
|  | EMailSpecialInstructions | nvarchar(MAX) |  |  |
|  | EMailTelephoneNumber | nvarchar(50) |  |  |
|  | rowguid | uniqueidentifier |  |  |
|  | ModifiedDate | datetime |  |  |

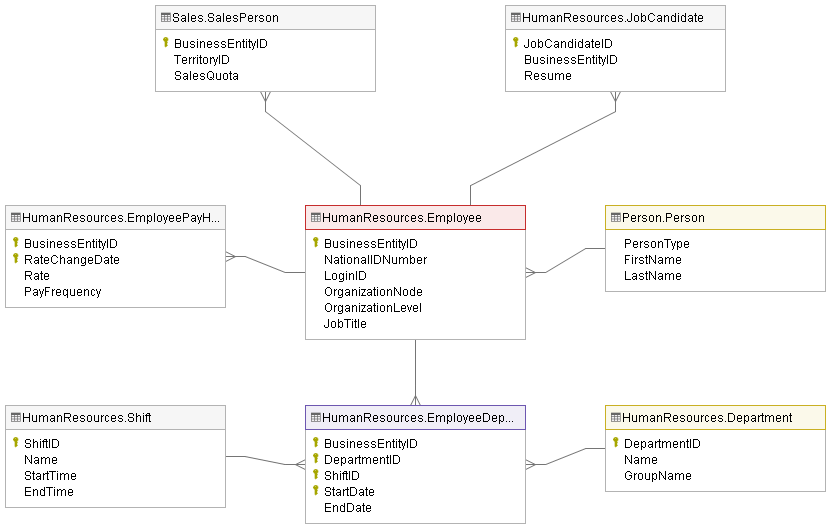
##### 3.2.2. View: Person.vStateProvinceCountryRegion

Joins StateProvince table with CountryRegion table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | StateProvinceID | int |  |  |
|  | StateProvinceCode | nchar(3) |  |  |
|  | IsOnlyStateProvinceFlag | bit |  |  |
|  | StateProvinceName | nvarchar(50) |  |  |
|  | TerritoryID | int |  |  |
|  | CountryRegionCode | nvarchar(3) |  |  |
|  | CountryRegionName | nvarchar(50) |  |  |

# 4. Human Resources



Employees of Adventure Works Cycles

### 4.1. Tables

##### 4.1.1. Table: HumanResources.Department

Lookup table containing the departments within the Adventure Works Cycles company.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | DepartmentID | smallint |  | Primary key for Department records. Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Name of the department. |
|  | GroupName | nvarchar(50) |  | Name of the group to which the department belongs. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | HumanResources.EmployeeDepart mentHistory | HumanResources.Department.Depart mentID =  HumanResources.EmployeeDepartme ntHistory.DepartmentID | FK\_EmployeeDepartmentHistory\_Department\_DepartmentID Foreign key constraint referencing Department.DepartmentID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | DepartmentID | PK\_Department\_DepartmentID Primary key (clustered) constraint |  |
|  | Name | AK\_Department\_Name  Unique nonclustered index. |  |

Used by

|  |
| --- |
| Name |
| HumanResources.Department |
| HumanResources.EmployeeDepartmentHistory |

##### 4.1.2. Table: HumanResources.Employee

Employee information such as salary, department, and title.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Primary key for Employee records. Foreign key to BusinessEntity.BusinessEntityID. |
|  | NationalIDNumber | nvarchar(15) |  | Unique national identification number such as a social security number. |
|  | LoginID | nvarchar(256) |  | Network login. Test2 |
|  | OrganizationNode | hierarchyid |  | Where the employee is located in corporate hierarchy. |
|  | OrganizationLevel | smallint |  | The depth of the employee in the corporate hierarchy. Computed: [OrganizationNode].[GetLevel]() |
|  | JobTitle | nvarchar(50) |  | Work title such as Buyer or Sales Representative. |
|  | BirthDate | date |  | Date of birth. |
|  | MaritalStatus | nchar(1) |  | M = Married, S = Single |
|  | Gender | nchar(1) |  | M = Male, F = Female |
|  | HireDate | date |  | Employee hired on this date. |
|  |  |  |  | Job classification. 0 = Hourly, not exempt from collective bargaining. 1 = |
|  | SalariedFlag | bit |  | Salaried, exempt from collective bargaining. Default: 1 |
|  | VacationHours | smallint |  | Number of available vacation hours. Default: 0 |
|  | SickLeaveHours | smallint |  | Number of available sick leave hours. Default: 0 |
|  | CurrentFlag | bit |  | 0 = Inactive, 1 = Active  Default: 1 |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.Person | HumanResources.Employee.BusinessE ntityID =  Person.Person.BusinessEntityID | FK\_Employee\_Person\_BusinessEntityID  Foreign key constraint referencing Person.BusinessEntityID. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | HumanResources.EmployeeDepart mentHistory | HumanResources.Employee.BusinessE ntityID =  HumanResources.EmployeeDepartme ntHistory.BusinessEntityID | FK\_EmployeeDepartmentHistory\_Employee\_BusinessEntityID Foreign key constraint referencing Employee.EmployeeID. |
|  | HumanResources.EmployeePayHist ory | HumanResources.Employee.BusinessE ntityID =  HumanResources.EmployeePayHistory  .BusinessEntityID | FK\_EmployeePayHistory\_Employee\_BusinessEntityID  Foreign key constraint referencing Employee.EmployeeID. |
|  | HumanResources.JobCandidate | HumanResources.Employee.BusinessE ntityID =  HumanResources.JobCandidate.Busin essEntityID | FK\_JobCandidate\_Employee\_BusinessEntityID  Foreign key constraint referencing Employee.EmployeeID. |
|  | Purchasing.PurchaseOrderHeader | HumanResources.Employee.BusinessE ntityID =  Purchasing.PurchaseOrderHeader.Em ployeeID | FK\_PurchaseOrderHeader\_Employee\_EmployeeID  Foreign key constraint referencing Employee.EmployeeID. |
|  | Sales.SalesPerson | HumanResources.Employee.BusinessE ntityID =  Sales.SalesPerson.BusinessEntityID | FK\_SalesPerson\_Employee\_BusinessEntityID  Foreign key constraint referencing Employee.EmployeeID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID | PK\_Employee\_BusinessEntityID  Primary key (clustered) constraint |
|  | LoginID | AK\_Employee\_LoginID  Unique nonclustered index. |
|  | NationalIDNumber | AK\_Employee\_NationalIDNumber Unique nonclustered index. |
|  | rowguid | AK\_Employee\_rowguid  Unique nonclustered index. Used to support replication samples. |

Triggers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Name | When | Description |
|  | dEmployee |  | Instead Of Delete | INSTEAD OF DELETE trigger which keeps Employees from being deleted. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| HumanResources.Employee |  |  |
| Person.Person |  |  |

Used by

|  |
| --- |
| Name |
| HumanResources.Employee |
| HumanResources.EmployeeDepartmentHistory |
| HumanResources.EmployeePayHistory |
| HumanResources.JobCandidate |
| Purchasing.PurchaseOrderHeader |
| Sales.SalesPerson |

##### 4.1.3. Table: HumanResources.EmployeeDepartmentHistory

Employee department transfers.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  | Employee identification number. Foreign key to Employee.BusinessEntityID. |
|  | DepartmentID | smallint |  |  | Department in which the employee worked including currently. Foreign key to Department.DepartmentID. |
|  | ShiftID | tinyint |  |  | Identifies which 8-hour shift the employee works. Foreign key to Shift.Shift.ID. |
|  | StartDate | date |  |  | Date the employee started work in the department. |
|  | EndDate | date |  |  | Date the employee left the department. NULL = Current department. |
|  | ModifiedDate | datetime |  |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | HumanResources.Department | HumanResources.EmployeeDepartme ntHistory.DepartmentID =  HumanResources.Department.Depart mentID | FK\_EmployeeDepartmentHistory\_Department\_DepartmentID Foreign key constraint referencing Department.DepartmentID. |
|  | HumanResources.Employee | HumanResources.EmployeeDepartme ntHistory.BusinessEntityID =  HumanResources.Employee.BusinessE ntityID | FK\_EmployeeDepartmentHistory\_Employee\_BusinessEntityID Foreign key constraint referencing Employee.EmployeeID. |
|  | HumanResources.Shift | HumanResources.EmployeeDepartme ntHistory.ShiftID =  HumanResources.Shift.ShiftID | FK\_EmployeeDepartmentHistory\_Shift\_ShiftID Foreign key constraint referencing Shift.ShiftID |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID, StartDate, DepartmentID, ShiftID | PK\_EmployeeDepartmentHistory\_BusinessEntityID\_StartDate\_DepartmentID Primary key (clustered) constraint |

Uses

|  |
| --- |
| Name |
| HumanResources.EmployeeDepartmentHistory |
| HumanResources.Department |
| HumanResources.Employee |
| HumanResources.Shift |

##### 4.1.4. Table: HumanResources.EmployeePayHistory

Employee pay history.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  | Employee identification number. Foreign key to Employee.BusinessEntityID. |
|  | RateChangeDate | datetime |  |  | Date the change in pay is effective |
|  | Rate | money |  |  | Salary hourly rate. |
|  | PayFrequency | tinyint |  |  | 1 = Salary received monthly, 2 = Salary received biweekly |
|  | ModifiedDate | datetime |  |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | HumanResources.Employee | HumanResources.EmployeePayHistory  .BusinessEntityID =  HumanResources.Employee.BusinessE ntityID | FK\_EmployeePayHistory\_Employee\_BusinessEntityID  Foreign key constraint referencing Employee.EmployeeID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID, RateChangeDate | PK\_EmployeePayHistory\_BusinessEntityID\_RateChangeDate Primary key (clustered) constraint |

Uses

|  |
| --- |
| Name |
| HumanResources.EmployeePayHistory |
| HumanResources.Employee |

##### 4.1.5. Table: HumanResources.JobCandidate

Résumés submitted to Human Resources by job applicants.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | JobCandidateID | int |  |  | Primary key for JobCandidate records. Identity / Auto increment column |
|  | BusinessEntityID | int |  |  | Employee identification number if applicant was hired. Foreign key to Employee.BusinessEntityID. |
|  | Resume | xml |  |  | Résumé in XML format. |
|  | Name | Data type | | N | Description / Attributes |
|  | ModifiedDate | datetime | |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | HumanResources.Employee | HumanResources.JobCandidate.Busin essEntityID =  HumanResources.Employee.BusinessE ntityID | FK\_JobCandidate\_Employee\_BusinessEntityID  Foreign key constraint referencing Employee.EmployeeID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | JobCandidateID | PK\_JobCandidate\_JobCandidateID Primary key (clustered) constraint |  |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| HumanResources.JobCandidate |  |  |
| HumanResources.Employee |  |  |

##### 4.1.6. Table: HumanResources.Shift

Work shift lookup table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ShiftID | tinyint |  | Primary key for Shift records.  Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Shift description. |
|  | StartTime | time(7) |  | Shift start time. |
|  | EndTime | time(7) |  | Shift end time. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | HumanResources.EmployeeDepart mentHistory | HumanResources.Shift.ShiftID = HumanResources.EmployeeDepartme  ntHistory.ShiftID | FK\_EmployeeDepartmentHistory\_Shift\_ShiftID Foreign key constraint referencing Shift.ShiftID |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | ShiftID | PK\_Shift\_ShiftID  Primary key (clustered) constraint |  |
|  | Name | AK\_Shift\_Name  Unique nonclustered index. |  |
|  | StartTime, EndTime | AK\_Shift\_StartTime\_EndTime Unique nonclustered index. |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| HumanResources.Shift |  |
| HumanResources.EmployeeDepartmentHistory |  |

### 4.2. Views

##### 4.2.1. View: HumanResources.vEmployee

Employee names and addresses.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | Title | nvarchar(8) |  |  |
|  | FirstName | nvarchar(50) |  |  |
|  | MiddleName | nvarchar(50) |  |  |
|  | LastName | nvarchar(50) |  |  |
|  | Suffix | nvarchar(10) |  |  |
|  | JobTitle | nvarchar(50) |  |  |
|  | PhoneNumber | nvarchar(25) |  |  |
|  | PhoneNumberType | nvarchar(50) |  |  |
|  | EmailAddress | nvarchar(50) |  |  |
|  | EmailPromotion | int |  |  |
|  | AddressLine1 | nvarchar(60) |  |  |
|  | AddressLine2 | nvarchar(60) |  |  |
|  | City | nvarchar(30) |  |  |
|  | StateProvinceName | nvarchar(50) |  |  |
|  | PostalCode | nvarchar(15) |  |  |
|  | CountryRegionName | nvarchar(50) |  |  |
|  | AdditionalContactInfo | xml |  |  |

##### 4.2.2. View: HumanResources.vEmployeeDepartment

Returns employee name, title, and current department.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | Title | nvarchar(8) |  |  |
|  | FirstName | nvarchar(50) |  |  |
|  | MiddleName | nvarchar(50) |  |  |
|  | LastName | nvarchar(50) |  |  |
|  | Suffix | nvarchar(10) |  |  |
|  | Name | Data type | N | Description / Attributes |
|  | JobTitle | nvarchar(50) |  |  |
|  | Department | nvarchar(50) |  |  |
|  | GroupName | nvarchar(50) |  |  |
|  | StartDate | date |  |  |

##### 4.2.3. View: HumanResources.vEmployeeDepartmentHistory

Returns employee name and current and previous departments.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | Title | nvarchar(8) |  |  |
|  | FirstName | nvarchar(50) |  |  |
|  | MiddleName | nvarchar(50) |  |  |
|  | LastName | nvarchar(50) |  |  |
|  | Suffix | nvarchar(10) |  |  |
|  | Shift | nvarchar(50) |  |  |
|  | Department | nvarchar(50) |  |  |
|  | GroupName | nvarchar(50) |  |  |
|  | StartDate | date |  |  |
|  | EndDate | date |  |  |

##### 4.2.4. View: HumanResources.vJobCandidate

Job candidate names and resumes.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | JobCandidateID | int |  | Identity / Auto increment column |
|  | BusinessEntityID | int |  |  |
|  | Name.Prefix | nvarchar(30) |  |  |
|  | Name.First | nvarchar(30) |  |  |
|  | Name.Middle | nvarchar(30) |  |  |
|  | Name.Last | nvarchar(30) |  |  |
|  | Name.Suffix | nvarchar(30) |  |  |
|  | Skills | nvarchar(MAX) |  |  |
|  | Addr.Type | nvarchar(30) |  |  |
|  | Addr.Loc.CountryRegion | nvarchar(100) |  |  |
|  | Addr.Loc.State | nvarchar(100) |  |  |
|  | Addr.Loc.City | nvarchar(100) |  |  |
|  | Addr.PostalCode | nvarchar(20) |  |  |
|  | Name | Data type | N | Description / Attributes |
|  | EMail | nvarchar(MAX) |  |  |
|  | WebSite | nvarchar(MAX) |  |  |
|  | ModifiedDate | datetime |  |  |

##### 4.2.5. View: HumanResources.vJobCandidateEducation

Displays the content from each education related element in the xml column Resume in the

HumanResources.JobCandidate table. The content has been localized into French, Simplified Chinese and Thai. Some data may not display correctly unless supplemental language support is installed.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | JobCandidateID | int |  | Identity / Auto increment column |
|  | Edu.Level | nvarchar(MAX) |  |  |
|  | Edu.StartDate | datetime |  |  |
|  | Edu.EndDate | datetime |  |  |
|  | Edu.Degree | nvarchar(50) |  |  |
|  | Edu.Major | nvarchar(50) |  |  |
|  | Edu.Minor | nvarchar(50) |  |  |
|  | Edu.GPA | nvarchar(5) |  |  |
|  | Edu.GPAScale | nvarchar(5) |  |  |
|  | Edu.School | nvarchar(100) |  |  |
|  | Edu.Loc.CountryRegion | nvarchar(100) |  |  |
|  | Edu.Loc.State | nvarchar(100) |  |  |
|  | Edu.Loc.City | nvarchar(100) |  |  |

##### 4.2.6. View: HumanResources.vJobCandidateEmployment

Displays the content from each employement history related element in the xml column Resume in the

HumanResources.JobCandidate table. The content has been localized into French, Simplified Chinese and Thai. Some data may not display correctly unless supplemental language support is installed.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | JobCandidateID | int |  | Identity / Auto increment column |
|  | Emp.StartDate | datetime |  |  |
|  | Emp.EndDate | datetime |  |  |
|  | Emp.OrgName | nvarchar(100) |  |  |
|  | Emp.JobTitle | nvarchar(100) |  |  |
|  | Emp.Responsibility | nvarchar(MAX) |  |  |
|  | Emp.FunctionCategory | nvarchar(MAX) |  |  |
|  | Emp.IndustryCategory | nvarchar(MAX) |  |  |
|  | Emp.Loc.CountryRegion | nvarchar(MAX) |  |  |
|  | Emp.Loc.State | nvarchar(MAX) |  |  |
|  | Name | Data type | N | Description / Attributes |
|  | Emp.Loc.City | nvarchar(MAX) |  |  |

### 4.3. Procedures

##### 4.3.1. Procedure: dbo.uspGetEmployeeManagers

Stored procedure using a recursive query to return the direct and indirect managers of the specified employee.

Input/Output

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name |  | Data type | Description |
|  | BusinessEntityID | int |  | Input parameter for the stored procedure uspGetEmployeeManagers. Enter a valid BusinessEntityID from the HumanResources.Employee table. |

##### 4.3.2. Procedure: dbo.uspGetManagerEmployees

Stored procedure using a recursive query to return the direct and indirect employees of the specified manager.

Input/Output

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name |  | Data type | Description |
|  |  |  |  | Input parameter for the stored procedure uspGetManagerEmployees. Enter a |
|  | BusinessEntityID | int |  | valid BusinessEntityID of the manager from the HumanResources.Employee table. |

##### 4.3.3. Procedure: dbo.uspSearchCandidateResumes

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | searchString | nvarchar(1000) |  |
|  | useInflectional | bit |  |
|  | useThesaurus | bit |  |
|  | language | int |  |

##### 4.3.4. Procedure: HumanResources.uspUpdateEmployeeHireInfo

Input/Output

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | | Description |
|  | BusinessEntityID | int | | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a valid BusinessEntityID from the Employee table. |
|  | JobTitle | nvarchar(50) | | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a title for the employee. |
|  | HireDate | datetime | | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a hire date for the employee. |
|  | RateChangeDate | datetime | | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the date the rate changed for the employee. |
|  | Rate | money | | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the new rate for the employee. |
|  | PayFrequency | tinyint | | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the pay frequency for the employee. |
|  | Name |  | Data type | Description |
|  | CurrentFlag | bit |  | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the current flag for the employee. |

##### 4.3.5. Procedure: HumanResources.uspUpdateEmployeeLogin

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | BusinessEntityID | int | Input parameter for the stored procedure uspUpdateEmployeeLogin. Enter a valid EmployeeID from the Employee table. |
|  | OrganizationNode | hierarchyid | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a valid ManagerID for the employee. |
|  | LoginID | nvarchar(256) | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a valid login for the employee. |
|  | JobTitle | nvarchar(50) | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a title for the employee. |
|  | HireDate | datetime | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a hire date for the employee. |
|  | CurrentFlag | bit | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the current flag for the employee. |

##### 4.3.6. Procedure: HumanResources.uspUpdateEmployeePersonalInfo

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | BusinessEntityID | int | Input parameter for the stored procedure uspUpdateEmployeePersonalInfo. Enter a valid BusinessEntityID from the HumanResources.Employee table. |
|  | NationalIDNumber | nvarchar(15) | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a national ID for the employee. |
|  | BirthDate | datetime | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a birth date for the employee. |
|  | MaritalStatus | nchar(1) | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a marital status for the employee. |
|  | Gender | nchar(1) | Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a gender for the employee. |

### 4.4. Functions

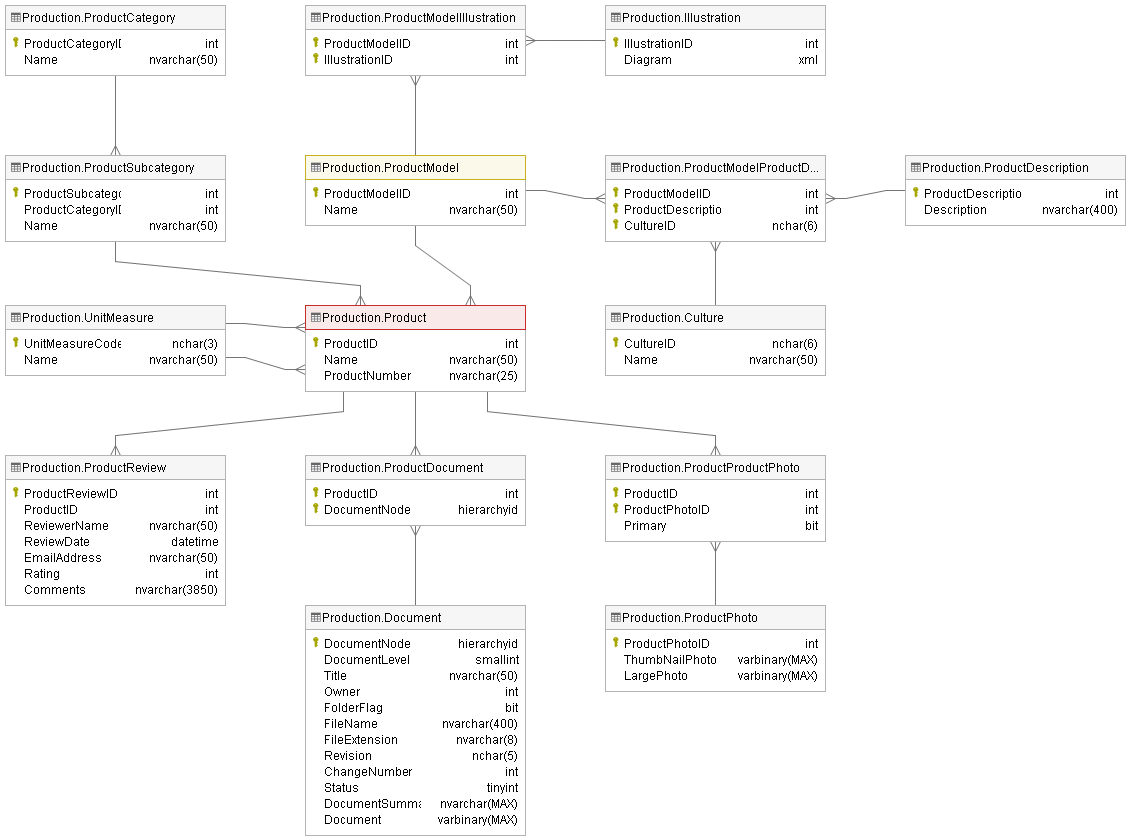
##### 4.4.1. Function: dbo.ufnGetContactInformation

Table value function returning the first name, last name, job title and contact type for a given contact.

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | Returns | table type |  |
|  | PersonID | int | Input parameter for the table value function ufnGetContactInformation. Enter a valid PersonID from the Person.Contact table. |

# 5. Products



Products manufactured and sold by Adventure Works Cycles.

### 5.1. Tables

##### 5.1.1. Table: Production.Culture

Lookup table containing the languages in which some AdventureWorks data is stored.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | CultureID | nchar(6) |  | Primary key for Culture records. |
|  | Name | nvarchar(50) |  | Culture description. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.ProductModelProductD escriptionCulture | Production.Culture.CultureID =  Production.ProductModelProductDesc riptionCulture.CultureID | FK\_ProductModelProductDescriptionCulture\_Culture\_CultureID Foreign key constraint referencing Culture.CultureID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | CultureID | PK\_Culture\_CultureID  Primary key (clustered) constraint |  |
|  | Name | AK\_Culture\_Name  Unique nonclustered index. |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| Production.Culture |  |
| Production.ProductModelProductDescriptionCulture |  |

##### 5.1.2. Table: Production.Document

Product maintenance documents.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | DocumentNode | hierarchyid |  | Primary key for Document records. |
|  | DocumentLevel | smallint |  | Depth in the document hierarchy.  Computed: [DocumentNode].[GetLevel]() |
|  | Title | nvarchar(50) |  | Title of the document. |
|  | Owner | int |  | Employee who controls the document. Foreign key to Employee.BusinessEntityID |
|  | FolderFlag | bit |  | 0 = This is a folder, 1 = This is a document.  Default: 0 |
|  | FileName | nvarchar(400) |  | File name of the document |
|  | FileExtension | nvarchar(8) |  | File extension indicating the document type. For example, .doc or .txt. |
|  | Revision | nchar(5) |  | Revision number of the document. |
|  | ChangeNumber | int |  | Engineering change approval number. Default: 0 |
|  | Status | tinyint |  | 1 = Pending approval, 2 = Approved, 3 = Obsolete |
|  | DocumentSummary | nvarchar(MAX) |  | Document abstract. |
|  | Document | varbinary(MAX) |  | Complete document. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Required for |
|  | rowguid | uniqueidentifier |  | FileStream.  Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.ProductDocument | Production.Document.DocumentNode  =  Production.ProductDocument.Docum  entNode | FK\_ProductDocument\_Document\_DocumentNode  Foreign key constraint referencing Document.DocumentNode. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | DocumentNode | PK\_Document\_DocumentNode  Primary key (clustered) constraint |
|  | DocumentLevel, DocumentNode | AK\_Document\_DocumentLevel\_DocumentNode Unique nonclustered index. |
|  | rowguid | AK\_Document\_rowguid  Unique nonclustered index. Used to support FileStream. |
|  | rowguid | UQ\_\_Document\_\_F73921F793071A63 |

Used by

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.Document |  |  |
| Production.ProductDocument |  |  |

##### 5.1.3. Table: Production.Illustration

Bicycle assembly diagrams.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | IllustrationID | int |  |  | Primary key for Illustration records. Identity / Auto increment column |
|  | Diagram | xml |  |  | Illustrations used in manufacturing instructions. Stored as XML. |
|  | ModifiedDate | datetime |  |  | Date and time the record was last updated. Default: getdate() |

Linked from

Title / Name / Description

Join

Table

FK\_ProductModelIllustration\_Illustration\_IllustrationID

Foreign key constraint referencing Illustration.IllustrationID.

Production.Illustration.

IllustrationID

=

Production.ProductModelIllustration.Ill

ustrationID

Production.ProductModelIllustratio

n



que keys

Uni

Name / Description

Columns

PK\_Illustration\_IllustrationID

Primary key (clustered) constraint

IllustrationID



ed by

Us

Nam

e

Production.Illustration



Production.ProductModelIllustration



##### 5.1.4. Table: Production.Product

Products sold or used in the manfacturing of sold products.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductID | int |  | Primary key for Product records.  Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Name of the product. |
|  | ProductNumber | nvarchar(25) |  | Unique product identification number. |
|  | MakeFlag | bit |  | 0 = Product is purchased, 1 = Product is manufactured in-house. Default: 1 |
|  | FinishedGoodsFlag | bit |  | 0 = Product is not a salable item. 1 = Product is salable. Default: 1 |
|  | Color | nvarchar(15) |  | Product color. |
|  | SafetyStockLevel | smallint |  | Minimum inventory quantity. |
|  | ReorderPoint | smallint |  | Inventory level that triggers a purchase order or work order. |
|  | StandardCost | money |  | Standard cost of the product. |
|  | ListPrice | money |  | Selling price. |
|  | Size | nvarchar(5) |  | Product size. |
|  | SizeUnitMeasureCode | nchar(3) |  | Unit of measure for Size column. |
|  | WeightUnitMeasureCode | nchar(3) |  | Unit of measure for Weight column. |
|  | Weight | decimal(8, 2) |  | Product weight. |
|  | DaysToManufacture | int |  | Number of days required to manufacture the product. |
|  | ProductLine | nchar(2) |  | R = Road, M = Mountain, T = Touring, S = Standard |
|  | Class | nchar(2) |  | H = High, M = Medium, L = Low |
|  | Style | nchar(2) |  | W = Womens, M = Mens, U = Universal |
|  | ProductSubcategoryID | int |  | Product is a member of this product subcategory. Foreign key to ProductSubCategory.ProductSubCategoryID. |
|  | ProductModelID | int |  | Product is a member of this product model. Foreign key to ProductModel.ProductModelID. |
|  | SellStartDate | datetime |  | Date the product was available for sale. |
|  | SellEndDate | datetime |  | Date the product was no longer available for sale. |
|  | DiscontinuedDate | datetime |  | Date the product was discontinued. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.ProductModel | Production.Product.ProductModelID = Production.ProductModel.ProductMo delID | FK\_Product\_ProductModel\_ProductModelID  Foreign key constraint referencing ProductModel.ProductModelID. |
|  | Production.ProductSubcategory | Production.Product.ProductSubcatego ryID =  Production.ProductSubcategory.Produ ctSubcategoryID | FK\_Product\_ProductSubcategory\_ProductSubcategoryID  Foreign key constraint referencing  ProductSubcategory.ProductSubcategoryID. |
|  | Table | Join | Title / Name / Description |
|  | Production.UnitMeasure | Production.Product.SizeUnitMeasureC ode =  Production.UnitMeasure.UnitMeasure  Code | FK\_Product\_UnitMeasure\_SizeUnitMeasureCode  Foreign key constraint referencing UnitMeasure.UnitMeasureCode. |
|  | Production.UnitMeasure | Production.Product.WeightUnitMeasur eCode =  Production.UnitMeasure.UnitMeasure  Code | FK\_Product\_UnitMeasure\_WeightUnitMeasureCode  Foreign key constraint referencing UnitMeasure.UnitMeasureCode. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.BillOfMaterials | Production.Product.ProductID =  Production.BillOfMaterials.Component ID | FK\_BillOfMaterials\_Product\_ComponentID  Foreign key constraint referencing Product.ProductAssemblyID. |
|  | Production.BillOfMaterials | Production.Product.ProductID = Production.BillOfMaterials.ProductAss emblyID | FK\_BillOfMaterials\_Product\_ProductAssemblyID  Foreign key constraint referencing Product.ProductAssemblyID. |
|  | Production.ProductCostHistory | Production.Product.ProductID = Production.ProductCostHistory.Produc tID | FK\_ProductCostHistory\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Production.ProductDocument | Production.Product.ProductID =  Production.ProductDocument.Product ID | FK\_ProductDocument\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Production.ProductInventory | Production.Product.ProductID =  Production.ProductInventory.ProductI  D | FK\_ProductInventory\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Production.ProductListPriceHistory | Production.Product.ProductID = Production.ProductListPriceHistory.Pro ductID | FK\_ProductListPriceHistory\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Production.ProductProductPhoto | Production.Product.ProductID = Production.ProductProductPhoto.Prod uctID | FK\_ProductProductPhoto\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Production.ProductReview | Production.Product.ProductID =  Production.ProductReview.ProductID | FK\_ProductReview\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Purchasing.ProductVendor | Production.Product.ProductID =  Purchasing.ProductVendor.ProductID | FK\_ProductVendor\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Purchasing.PurchaseOrderDetail | Production.Product.ProductID = Purchasing.PurchaseOrderDetail.Prod uctID | FK\_PurchaseOrderDetail\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Sales.SalesOrderDetail | Production.Product.ProductID = Sales.SalesOrderDetail.ProductID | User-defined relation |
|  | Sales.ShoppingCartItem | Production.Product.ProductID = Sales.ShoppingCartItem.ProductID | FK\_ShoppingCartItem\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Sales.SpecialOfferProduct | Production.Product.ProductID =  Sales.SpecialOfferProduct.ProductID | FK\_SpecialOfferProduct\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Production.TransactionHistory | Production.Product.ProductID =  Production.TransactionHistory.Product ID | FK\_TransactionHistory\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Production.TransactionHistoryArchi ve | Production.Product.ProductID =  Production.TransactionHistoryArchive.  ProductID | User-defined relation |
|  | Production.WorkOrder | Production.Product.ProductID = Production.WorkOrder.ProductID | FK\_WorkOrder\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductID | PK\_Product\_ProductID  Primary key (clustered) constraint |
|  | Name | AK\_Product\_Name  Unique nonclustered index. |
|  | ProductNumber | AK\_Product\_ProductNumber Unique nonclustered index. |
|  | rowguid | AK\_Product\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |  |
| --- | --- |
|  | Name |
| Production.Product |  |
| Production.ProductModel |  |
| Production.ProductSubcategory |  |
| Production.UnitMeasure |  |
| Production.UnitMeasure |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| Production.Product | |
| Production.BillOfMaterials | |
| Production.BillOfMaterials | |
| Production.ProductCostHistory | |
| Production.ProductDocument | |
| Production.ProductInventory | |
| Production.ProductListPriceHistory | |
| Production.ProductProductPhoto | |
| Production.ProductReview | |
| Production.TransactionHistory | |
| Production.TransactionHistoryArchive | |
| Production.WorkOrder | |
| Purchasing.ProductVendor | |
| Purchasing.PurchaseOrderDetail | |
| Sales.SalesOrderDetail | |
| Sales.ShoppingCartItem | |
| Sales.SpecialOfferProduct | |

##### 5.1.5. Table: Production.ProductCategory

High-level product categorization.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductCategoryID | int |  | Primary key for ProductCategory records. Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Category description. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.ProductSubcategory | Production.ProductCategory.ProductC ategoryID =  Production.ProductSubcategory.Produ ctCategoryID | FK\_ProductSubcategory\_ProductCategory\_ProductCategoryID  Foreign key constraint referencing  ProductCategory.ProductCategoryID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductCategoryID | PK\_ProductCategory\_ProductCategoryID Primary key (clustered) constraint |
|  | Name | AK\_ProductCategory\_Name Unique nonclustered index. |
|  | rowguid | AK\_ProductCategory\_rowguid  Unique nonclustered index. Used to support replication samples. |

Used by

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.ProductCategory |  |  |
| Production.ProductSubcategory |  |  |

##### 5.1.6. Table: Production.ProductDescription

Product descriptions in several languages.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductDescriptionID | int |  | Primary key for ProductDescription records. Identity / Auto increment column |
|  | Description | nvarchar(400) |  | Description of the product. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.ProductModelProductD escriptionCulture | Production.ProductDescription.Produc tDescriptionID =  Production.ProductModelProductDesc riptionCulture.ProductDescriptionID | FK\_ProductModelProductDescriptionCulture\_ProductDescription\_Prod uctDescriptionID  Foreign key constraint referencing  ProductDescription.ProductDescriptionID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductDescriptionID | PK\_ProductDescription\_ProductDescriptionID Primary key (clustered) constraint |
|  | rowguid | AK\_ProductDescription\_rowguid  Unique nonclustered index. Used to support replication samples. |

Used by

|  |
| --- |
| Name |
| Production.ProductDescription |
| Production.ProductModelProductDescriptionCulture |

##### 5.1.7. Table: Production.ProductDocument

Cross-reference table mapping products to related product documents.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductID | int |  | Product identification number. Foreign key to Product.ProductID. |
|  | DocumentNode | hierarchyid |  | Document identification number. Foreign key to Document.DocumentNode. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Document | Production.ProductDocument.Docum entNode =  Production.Document.DocumentNode | FK\_ProductDocument\_Document\_DocumentNode  Foreign key constraint referencing Document.DocumentNode. |
|  | Production.Product | Production.ProductDocument.Product ID = Production.Product.ProductID | FK\_ProductDocument\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductID, DocumentNode | PK\_ProductDocument\_ProductID\_DocumentNode  Primary key (clustered) constraint |

Uses

|  |  |
| --- | --- |
|  | Name |
| Production.ProductDocument |  |
| Production.Document |  |
| Production.Product |  |

##### 5.1.8. Table: Production.ProductModel

Product model classification.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductModelID | int |  | Primary key for ProductModel records. Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Product model description. |
|  | CatalogDescription | xml |  | Detailed product catalog information in xml format. |
|  | Instructions | xml |  | Manufacturing instructions in xml format. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Production.ProductModel.ProductMo delID =  Production.Product.ProductModelID | FK\_Product\_ProductModel\_ProductModelID  Foreign key constraint referencing ProductModel.ProductModelID. |
|  | Production.ProductModelIllustratio n | Production.ProductModel.ProductMo delID =  Production.ProductModelIllustration.Pr oductModelID | FK\_ProductModelIllustration\_ProductModel\_ProductModelID  Foreign key constraint referencing ProductModel.ProductModelID. |
|  | Production.ProductModelProductD escriptionCulture | Production.ProductModel.ProductMo delID =  Production.ProductModelProductDesc riptionCulture.ProductModelID | FK\_ProductModelProductDescriptionCulture\_ProductModel\_ProductM odelID  Foreign key constraint referencing ProductModel.ProductModelID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductModelID | PK\_ProductModel\_ProductModelID Primary key (clustered) constraint |
|  | Name | AK\_ProductModel\_Name Unique nonclustered index. |
|  | rowguid | AK\_ProductModel\_rowguid  Unique nonclustered index. Used to support replication samples. |

Used by

|  |
| --- |
| Name |
| Production.ProductModel |
| Production.Product |
| Production.ProductModelIllustration |
| Production.ProductModelProductDescriptionCulture |

##### 5.1.9. Table: Production.ProductModelIllustration

Cross-reference table mapping product models and illustrations.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | ProductModelID | int |  |  | Primary key. Foreign key to ProductModel.ProductModelID. |
|  | IllustrationID | int |  |  | Primary key. Foreign key to Illustration.IllustrationID. |
|  | ModifiedDate | datetime |  |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Illustration | Production.ProductModelIllustration.Ill ustrationID =  Production.Illustration.IllustrationID | FK\_ProductModelIllustration\_Illustration\_IllustrationID  Foreign key constraint referencing Illustration.IllustrationID. |
|  | Production.ProductModel | Production.ProductModelIllustration.Pr oductModelID =  Production.ProductModel.ProductMo delID | FK\_ProductModelIllustration\_ProductModel\_ProductModelID  Foreign key constraint referencing ProductModel.ProductModelID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductModelID, IllustrationID | PK\_ProductModelIllustration\_ProductModelID\_IllustrationID Primary key (clustered) constraint |

Uses

|  |  |
| --- | --- |
|  | Name |
| Production.ProductModelIllustration |  |
| Production.Illustration |  |
| Production.ProductModel |  |

##### 5.1.10. Table: Production.ProductModelProductDescriptionCulture

Cross-reference table mapping product descriptions and the language the description is written in.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | ProductModelID | int |  |  | Primary key. Foreign key to ProductModel.ProductModelID. |
|  | ProductDescriptionID | int |  |  | Primary key. Foreign key to ProductDescription.ProductDescriptionID. |
|  | CultureID | nchar(6) |  |  | Culture identification number. Foreign key to Culture.CultureID. |
|  | ModifiedDate | datetime |  |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Culture | Production.ProductModelProductDesc riptionCulture.CultureID = Production.Culture.CultureID | FK\_ProductModelProductDescriptionCulture\_Culture\_CultureID Foreign key constraint referencing Culture.CultureID. |
|  | Production.ProductDescription | Production.ProductModelProductDesc riptionCulture.ProductDescriptionID = Production.ProductDescription.Produc tDescriptionID | FK\_ProductModelProductDescriptionCulture\_ProductDescription\_Prod uctDescriptionID  Foreign key constraint referencing  ProductDescription.ProductDescriptionID. |
|  | Table | Join | Title / Name / Description |
|  | Production.ProductModel | Production.ProductModelProductDesc riptionCulture.ProductModelID = Production.ProductModel.ProductMo delID | FK\_ProductModelProductDescriptionCulture\_ProductModel\_ProductM odelID  Foreign key constraint referencing ProductModel.ProductModelID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductModelID,  ProductDescriptionID, CultureID | PK\_ProductModelProductDescriptionCulture\_ProductModelID\_ProductDescriptionID\_CultureID Primary key (clustered) constraint |

Uses

|  |  |
| --- | --- |
|  | Name |
| Production.ProductModelProductDescriptionCulture |  |
| Production.Culture |  |
| Production.ProductDescription |  |
| Production.ProductModel |  |

##### 5.1.11. Table: Production.ProductPhoto

Product images.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductPhotoID | int |  | Primary key for ProductPhoto records. Identity / Auto increment column |
|  | ThumbNailPhoto | varbinary(MAX) |  | Small image of the product. |
|  | ThumbnailPhotoFileName | nvarchar(50) |  | Small image file name. |
|  | LargePhoto | varbinary(MAX) |  | Large image of the product. |
|  | LargePhotoFileName | nvarchar(50) |  | Large image file name. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.ProductProductPhoto | Production.ProductPhoto.ProductPhot oID =  Production.ProductProductPhoto.Prod uctPhotoID | FK\_ProductProductPhoto\_ProductPhoto\_ProductPhotoID  Foreign key constraint referencing ProductPhoto.ProductPhotoID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | ProductPhotoID | PK\_ProductPhoto\_ProductPhotoID Primary key (clustered) constraint |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| Production.ProductPhoto |  |
| Production.ProductProductPhoto |  |

##### 5.1.12. Table: Production.ProductProductPhoto

Cross-reference table mapping products and product photos.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | ProductID | int |  |  | Product identification number. Foreign key to Product.ProductID. |
|  | ProductPhotoID | int |  |  | Product photo identification number. Foreign key to ProductPhoto.ProductPhotoID. |
|  | Primary | bit |  |  | 0 = Photo is not the principal image. 1 = Photo is the principal image. Default: 0 |
|  | ModifiedDate | datetime |  |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Production.ProductProductPhoto.Prod uctID = Production.Product.ProductID | FK\_ProductProductPhoto\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Production.ProductPhoto | Production.ProductProductPhoto.Prod uctPhotoID =  Production.ProductPhoto.ProductPhot oID | FK\_ProductProductPhoto\_ProductPhoto\_ProductPhotoID  Foreign key constraint referencing ProductPhoto.ProductPhotoID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductID, ProductPhotoID | PK\_ProductProductPhoto\_ProductID\_ProductPhotoID Primary key (clustered) constraint |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.ProductProductPhoto |  |  |
| Production.Product |  |  |
| Production.ProductPhoto |  |  |

##### 5.1.13. Table: Production.ProductReview

Customer reviews of products they have purchased.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductReviewID | int |  | Primary key for ProductReview records. Identity / Auto increment column |
|  | ProductID | int |  | Product identification number. Foreign key to Product.ProductID. |
|  | ReviewerName | nvarchar(50) |  | Name of the reviewer. |
|  | ReviewDate | datetime |  | Date review was submitted. Default: getdate() |
|  | EmailAddress | nvarchar(50) |  | Reviewer's e-mail address. |
|  | Rating | int |  | Product rating given by the reviewer. Scale is 1 to 5 with 5 as the highest rating. |
|  | Name | Data type | N | Description / Attributes |
|  | Comments | nvarchar(3850) |  | Reviewer's comments |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Production.ProductReview.ProductID = Production.Product.ProductID | FK\_ProductReview\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
| Unique keys | |  |  |
|  | Columns |  | Name / Description |
|  | ProductReviewID | PK\_ProductReview\_ProductReviewID Primary key (clustered) constraint |  |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.ProductReview |  |  |
| Production.Product |  |  |

##### 5.1.14. Table: Production.ProductSubcategory

Product subcategories. See ProductCategory table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductSubcategoryID | int |  | Primary key for ProductSubcategory records. Identity / Auto increment column |
|  | ProductCategoryID | int |  | Product category identification number. Foreign key to ProductCategory.ProductCategoryID. |
|  | Name | nvarchar(50) |  | Subcategory description. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.ProductCategory | Production.ProductSubcategory.Produ ctCategoryID =  Production.ProductCategory.ProductC ategoryID | FK\_ProductSubcategory\_ProductCategory\_ProductCategoryID  Foreign key constraint referencing  ProductCategory.ProductCategoryID. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Production.ProductSubcategory.Produ ctSubcategoryID =  Production.Product.ProductSubcatego ryID | FK\_Product\_ProductSubcategory\_ProductSubcategoryID  Foreign key constraint referencing  ProductSubcategory.ProductSubcategoryID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductSubcategoryID | PK\_ProductSubcategory\_ProductSubcategoryID Primary key (clustered) constraint |
|  | Name | AK\_ProductSubcategory\_Name Unique nonclustered index. |
|  | rowguid | AK\_ProductSubcategory\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.ProductSubcategory |  |  |
| Production.ProductCategory |  |  |

Used by

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.ProductSubcategory |  |  |
| Production.Product |  |  |

##### 5.1.15. Table: Production.UnitMeasure

Unit of measure lookup table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | UnitMeasureCode | nchar(3) |  | Primary key. |
|  | Name | nvarchar(50) |  | Unit of measure description. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.BillOfMaterials | Production.UnitMeasure.UnitMeasure  Code =  Production.BillOfMaterials.UnitMeasur eCode | FK\_BillOfMaterials\_UnitMeasure\_UnitMeasureCode  Foreign key constraint referencing UnitMeasure.UnitMeasureCode. |
|  | Production.Product | Production.UnitMeasure.UnitMeasure  Code =  Production.Product.SizeUnitMeasureC ode | FK\_Product\_UnitMeasure\_SizeUnitMeasureCode  Foreign key constraint referencing UnitMeasure.UnitMeasureCode. |
|  | Production.Product | Production.UnitMeasure.UnitMeasure  Code =  Production.Product.WeightUnitMeasur eCode | FK\_Product\_UnitMeasure\_WeightUnitMeasureCode  Foreign key constraint referencing UnitMeasure.UnitMeasureCode. |
|  | Purchasing.ProductVendor | Production.UnitMeasure.UnitMeasure  Code =  Purchasing.ProductVendor.UnitMeasu reCode | FK\_ProductVendor\_UnitMeasure\_UnitMeasureCode  Foreign key constraint referencing UnitMeasure.UnitMeasureCode. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | UnitMeasureCode | PK\_UnitMeasure\_UnitMeasureCode Primary key (clustered) constraint |  |
|  | Name | AK\_UnitMeasure\_Name  Unique nonclustered index. |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| Production.UnitMeasure |  |
| Production.BillOfMaterials |  |
| Production.Product |  |
| Production.Product |  |
| Purchasing.ProductVendor |  |

### 

### 5.2. Views

##### 5.2.1. View: Production.vProductAndDescription

Product names and descriptions. Product descriptions are provided in multiple languages. Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductID | int |  |  |
|  | Name | nvarchar(50) |  |  |
|  | ProductModel | nvarchar(50) |  |  |
|  | CultureID | nchar(6) |  |  |
|  | Description | nvarchar(400) |  |  |

##### 5.2.2. View: Production.vProductModelCatalogDescription

Displays the content from each element in the xml column CatalogDescription for each product in the Production.ProductModel table that has catalog data.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductModelID | int |  | Identity / Auto increment column |
|  | Name | nvarchar(50) |  |  |
|  | Summary | nvarchar(MAX) |  |  |
|  | Manufacturer | nvarchar(MAX) |  |  |
|  | Copyright | nvarchar(30) |  |  |
|  | ProductURL | nvarchar(256) |  |  |
|  | WarrantyPeriod | nvarchar(256) |  |  |
|  | WarrantyDescription | nvarchar(256) |  |  |
|  | NoOfYears | nvarchar(256) |  |  |
|  | Name | Data type | N | Description / Attributes |
|  | MaintenanceDescription | nvarchar(256) |  |  |
|  | Wheel | nvarchar(256) |  |  |
|  | Saddle | nvarchar(256) |  |  |
|  | Pedal | nvarchar(256) |  |  |
|  | BikeFrame | nvarchar(MAX) |  |  |
|  | Crankset | nvarchar(256) |  |  |
|  | PictureAngle | nvarchar(256) |  |  |
|  | PictureSize | nvarchar(256) |  |  |
|  | ProductPhotoID | nvarchar(256) |  |  |
|  | Material | nvarchar(256) |  |  |
|  | Color | nvarchar(256) |  |  |
|  | ProductLine | nvarchar(256) |  |  |
|  | Style | nvarchar(256) |  |  |
|  | RiderExperience | nvarchar(1024) |  |  |
|  | rowguid | uniqueidentifier |  |  |
|  | ModifiedDate | datetime |  |  |

##### 5.2.3. View: Production.vProductModelInstructions

Displays the content from each element in the xml column Instructions for each product in the Production.ProductModel table that has manufacturing instructions.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductModelID | int |  | Identity / Auto increment column |
|  | Name | nvarchar(50) |  |  |
|  | Instructions | nvarchar(MAX) |  |  |
|  | LocationID | int |  |  |
|  | SetupHours | decimal(9, 4) |  |  |
|  | MachineHours | decimal(9, 4) |  |  |
|  | LaborHours | decimal(9, 4) |  |  |
|  | LotSize | int |  |  |
|  | Step | nvarchar(1024) |  |  |
|  | rowguid | uniqueidentifier |  |  |
|  | ModifiedDate | datetime |  |  |

### 

### 5.3. Procedures

##### 5.3.1. Procedure: dbo.uspGetBillOfMaterials

Uses a recursive query (common table expression) to generate a multilevel Bill of Material: all level 1 components of a level 0 assembly, all level 2 components of a level 1 assembly, and so on.

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | StartProductID | int | Input parameter for the stored procedure uspGetBillOfMaterials. Enter a valid ProductID from the Production.Product table. |
|  | CheckDate | datetime | Input parameter for the stored procedure uspGetBillOfMaterials used to eliminate components not used after that date. Enter a valid date. |

##### 5.3.2. Procedure: dbo.uspGetWhereUsedProductID

Stored procedure using a recursive query to return all components or assemblies that directly or indirectly use the specified ProductID.

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | StartProductID | int | Input parameter for the stored procedure uspGetWhereUsedProductID. Enter a valid ProductID from the Production.Product table. |
|  | CheckDate | datetime | Input parameter for the stored procedure uspGetWhereUsedProductID used to eliminate components not used after that date. Enter a valid date. |

### 5.4. Functions

##### 5.4.1. Function: dbo.ufnGetDocumentStatusText

Scalar function returning the text representation of the Status column in the Document table.

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | Returns | nvarchar(16) | Returns the text representation of the Status column |
|  | Status | tinyint | Input parameter for the scalar function ufnGetDocumentStatusText. Enter a valid integer. |

##### 5.4.2. Function: dbo.ufnGetProductDealerPrice

Scalar function returning the dealer price for a given product on a particular order date. Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | Returns | money |  |
|  | ProductID | int | Input parameter for the scalar function ufnGetProductDealerPrice. Enter a valid ProductID from the Production.Product table. |
|  | OrderDate | datetime | Input parameter for the scalar function ufnGetProductDealerPrice. Enter a valid order date. |

##### 5.4.3. Function: dbo.ufnGetProductListPrice

Scalar function returning the list price for a given product on a particular order date.

Input/Output

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name |  | Data type | Description |
|  | Returns | money |  |  |
|  | ProductID | int |  | Input parameter for the scalar function ufnGetProductListPrice. Enter a valid ProductID from the Production.Product table. |
|  | Name | Data type | | Description |
|  | OrderDate | datetime | | Input parameter for the scalar function ufnGetProductListPrice. Enter a valid order date. |

##### 5.4.4. Function: dbo.ufnGetProductStandardCost

Scalar function returning the standard cost for a given product on a particular order date.

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | Returns | money |  |
|  | ProductID | int | Input parameter for the scalar function ufnGetProductStandardCost. Enter a valid ProductID from the Production.Product table. |
|  | OrderDate | datetime | Input parameter for the scalar function ufnGetProductStandardCost. Enter a valid order date. |

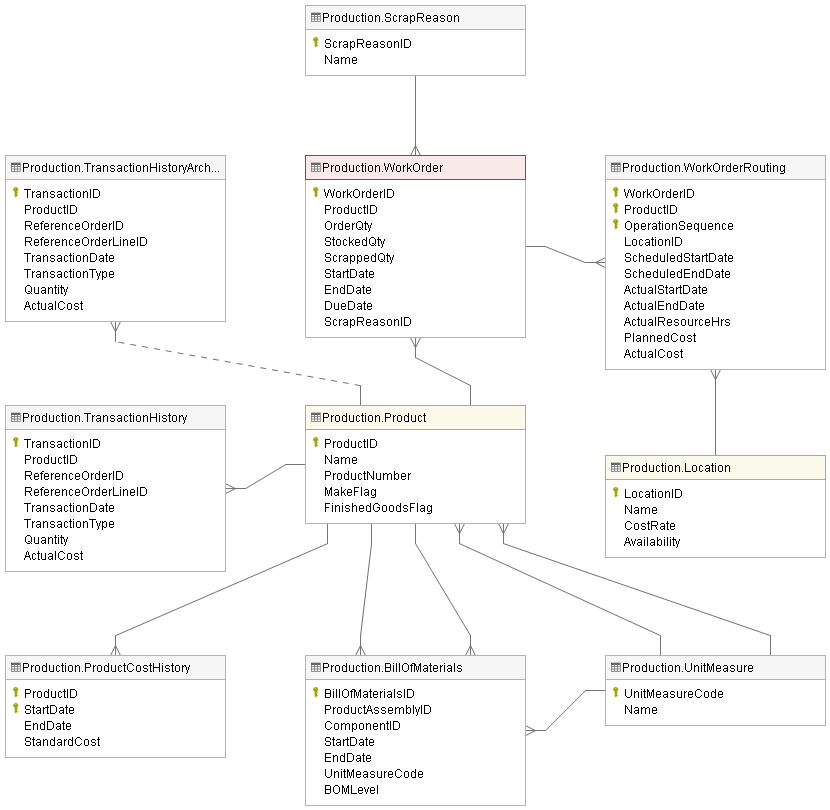
##### 5.4.5. Function: dbo.ufnGetStock

Scalar function returning the quantity of inventory in LocationID 6 (Miscellaneous Storage)for a specified ProductID.

Input/Output

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name |  | Data type | Description |
|  | Returns | int |  |  |
|  | ProductID | int |  | Input parameter for the scalar function ufnGetStock. Enter a valid ProductID from the Production.ProductInventory table. |

# 6. Manufacturing



### 6.1. Tables

##### 6.1.1. Table: Production.BillOfMaterials

Items required to make bicycles and bicycle subassemblies. It identifies the heirarchical relationship between a parent product and its components.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | BillOfMaterialsID | int |  |  | Primary key for BillOfMaterials records. Identity / Auto increment column |
|  | ProductAssemblyID | int |  |  | Parent product identification number. Foreign key to Product.ProductID. |
|  | ComponentID | int |  |  | Component identification number. Foreign key to Product.ProductID. |
|  | Name | Data type | | N | Description / Attributes |
|  | StartDate | datetime | |  | Date the component started being used in the assembly item. Default: getdate() |
|  | EndDate | datetime | |  | Date the component stopped being used in the assembly item. |
|  | UnitMeasureCode | nchar(3) | |  | Standard code identifying the unit of measure for the quantity. |
|  | BOMLevel | smallint | |  | Indicates the depth the component is from its parent (AssemblyID). |
|  | PerAssemblyQty | decimal(8, 2) | |  | Quantity of the component needed to create the assembly. Default: 1.00 |
|  | ModifiedDate | datetime | |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Production.BillOfMaterials.Component ID = Production.Product.ProductID | FK\_BillOfMaterials\_Product\_ComponentID  Foreign key constraint referencing Product.ProductAssemblyID. |
|  | Production.Product | Production.BillOfMaterials.ProductAss emblyID =  Production.Product.ProductID | FK\_BillOfMaterials\_Product\_ProductAssemblyID  Foreign key constraint referencing Product.ProductAssemblyID. |
|  | Production.UnitMeasure | Production.BillOfMaterials.UnitMeasur eCode =  Production.UnitMeasure.UnitMeasure  Code | FK\_BillOfMaterials\_UnitMeasure\_UnitMeasureCode  Foreign key constraint referencing UnitMeasure.UnitMeasureCode. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BillOfMaterialsID | PK\_BillOfMaterials\_BillOfMaterialsID Primary key (clustered) constraint |
|  | ProductAssemblyID, ComponentID, StartDate | AK\_BillOfMaterials\_ProductAssemblyID\_ComponentID\_StartDate Clustered index. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.BillOfMaterials |  |  |
| Production.Product |  |  |
| Production.Product |  |  |
| Production.UnitMeasure |  |  |

##### 6.1.2. Table: Production.ProductCostHistory

Changes in the cost of a product over time.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes | |
|  | ProductID | int |  | Product identification number. Foreign key to Product.ProductID | |
|  | StartDate | datetime |  | Product cost start date. | |
|  | EndDate | datetime |  | Product cost end date. | |
|  | StandardCost | money |  | Standard cost of the product. | |
|  | Name | Data type | N | Description / Attributes | |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() | |
| Links to | |  | | | |
|  | Table | Join | | | Title / Name / Description |
|  | Production.Product | Production.ProductCostHistory.Produc tID = Production.Product.ProductID | | | FK\_ProductCostHistory\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
| Unique keys | |  | | | |
|  | Columns | Name / Description | | | |
|  | ProductID, StartDate | PK\_ProductCostHistory\_ProductID\_StartDate Primary key (clustered) constraint | | | |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.ProductCostHistory |  |  |
| Production.Product |  |  |

##### 6.1.3. Table: Production.ProductListPriceHistory

Changes in the list price of a product over time.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name |  | N | Description / Attributes |
|  | ProductID | int |  | Product identification number. Foreign key to Product.ProductID |
|  | StartDate | datetime |  | List price start date. |
|  | EndDate | datetime |  | List price end date |
|  | ListPrice | money |  | Product list price. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Production.ProductListPriceHistory.Pro ductID =  Production.Product.ProductID | FK\_ProductListPriceHistory\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductID, StartDate | PK\_ProductListPriceHistory\_ProductID\_StartDate Primary key (clustered) constraint |

Uses

|  |  |
| --- | --- |
|  | Name |
| Production.ProductListPriceHistory |  |
| Production.Product |  |

##### 6.1.4. Table: Production.ScrapReason

Manufacturing failure reasons lookup table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ScrapReasonID | smallint |  | Primary key for ScrapReason records. Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Failure description. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.WorkOrder | Production.ScrapReason.ScrapReasonI D =  Production.WorkOrder.ScrapReasonID | FK\_WorkOrder\_ScrapReason\_ScrapReasonID  Foreign key constraint referencing ScrapReason.ScrapReasonID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | ScrapReasonID | PK\_ScrapReason\_ScrapReasonID Primary key (clustered) constraint |  |
|  | Name | AK\_ScrapReason\_Name  Unique nonclustered index. |  |

Used by

Name

Production.ScrapReason



Production.WorkOrder



##### 6.1.5. Table: Production.TransactionHistory

Record of each purchase order, sales order, or work order transaction year to date.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes | |
|  | TransactionID | int |  | Primary key for TransactionHistory records. Identity / Auto increment column | |
|  | ProductID | int |  | Product identification number. Foreign key to Product.ProductID. | |
|  | ReferenceOrderID | int |  | Purchase order, sales order, or work order identification number. | |
|  |  |  |  | Line number associated with the purchase order, sales order, or work | |
|  | ReferenceOrderLineID | int |  | order. Default: 0 | |
|  | TransactionDate | datetime |  | Date and time of the transaction. Default: getdate() | |
|  | TransactionType | nchar(1) |  | W = WorkOrder, S = SalesOrder, P = PurchaseOrder | |
|  | Quantity | int |  | Product quantity. | |
|  | ActualCost | money |  | Product cost. | |
|  | Name | Data type | N | Description / Attributes | |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() | |
| Links to | |  | | | |
|  | Table | Join | | | Title / Name / Description |
|  | Production.Product | Production.TransactionHistory.Product ID = Production.Product.ProductID | | | FK\_TransactionHistory\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
| Unique keys | |  | | | |
|  | Columns | Name / Description | | | |
|  | TransactionID | PK\_TransactionHistory\_TransactionID Primary key (clustered) constraint | | | |

Uses

|  |  |
| --- | --- |
|  | Name |
| Production.TransactionHistory |  |
| Production.Product |  |

##### 6.1.6. Table: Production.TransactionHistoryArchive

Transactions for previous years.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | TransactionID | int |  |  | Primary key for TransactionHistoryArchive records. |
|  | ProductID | int |  |  | Product identification number. Foreign key to Product.ProductID. |
|  | ReferenceOrderID | int |  |  | Purchase order, sales order, or work order identification number. |
|  |  |  |  |  | Line number associated with the purchase order, sales order, or work |
|  | ReferenceOrderLineID | int |  |  | order. Default: 0 |
|  | TransactionDate | datetime |  |  | Date and time of the transaction. Default: getdate() |
|  | TransactionType | nchar(1) |  |  | W = Work Order, S = Sales Order, P = Purchase Order |
|  | Quantity | int |  |  | Product quantity. |
|  | ActualCost | money |  |  | Product cost. |
|  | ModifiedDate | datetime |  |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Production.TransactionHistoryArchive.  ProductID =  Production.Product.ProductID | User-defined relation |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | TransactionID | PK\_TransactionHistoryArchive\_TransactionID Primary key (clustered) constraint |  |

Uses

|  |  |
| --- | --- |
|  | Name |
| Production.TransactionHistoryArchive |  |
| Production.Product |  |

##### 6.1.7. Table: Production.WorkOrder

Manufacturing work orders.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | WorkOrderID | int |  |  | Primary key for WorkOrder records. Identity / Auto increment column |
|  | ProductID | int |  |  | Product identification number. Foreign key to Product.ProductID. |
|  | OrderQty | int |  |  | Product quantity to build. |
|  | StockedQty | int |  |  | Quantity built and put in inventory.  Computed: isnull([OrderQty]-[ScrappedQty],(0)) |
|  | ScrappedQty | smallint |  |  | Quantity that failed inspection. |
|  | StartDate | datetime |  |  | Work order start date. |
|  | EndDate | datetime |  |  | Work order end date. |
|  | DueDate | datetime |  |  | Work order due date. |
|  | ScrapReasonID | smallint |  |  | Reason for inspection failure. |
|  | ModifiedDate | datetime |  |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Production.WorkOrder.ProductID = Production.Product.ProductID | FK\_WorkOrder\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Production.ScrapReason | Production.WorkOrder.ScrapReasonID  =  Production.ScrapReason.ScrapReasonI  D | FK\_WorkOrder\_ScrapReason\_ScrapReasonID  Foreign key constraint referencing ScrapReason.ScrapReasonID. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.WorkOrderRouting | Production.WorkOrder.WorkOrderID  =  Production.WorkOrderRouting.WorkO rderID | FK\_WorkOrderRouting\_WorkOrder\_WorkOrderID  Foreign key constraint referencing WorkOrder.WorkOrderID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | WorkOrderID | PK\_WorkOrder\_WorkOrderID  Primary key (clustered) constraint |  |

Triggers

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | When | Description |
|  | iWorkOrder | After Insert | AFTER INSERT trigger that inserts a row in the TransactionHistory table. |
|  | uWorkOrder | After Update | AFTER UPDATE trigger that inserts a row in the TransactionHistory table, updates ModifiedDate in the WorkOrder table. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.WorkOrder |  |  |
| Production.Product |  |  |
| Production.ScrapReason |  |  |

Used by

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.WorkOrder |  |  |
| Production.WorkOrderRouting |  |  |

##### 6.1.8. Table: Production.WorkOrderRouting

Work order details.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | WorkOrderID | int |  | Primary key. Foreign key to WorkOrder.WorkOrderID. |
|  | ProductID | int |  | Primary key. Foreign key to Product.ProductID. |
|  | OperationSequence | smallint |  | Primary key. Indicates the manufacturing process sequence. |
|  | LocationID | smallint |  | Manufacturing location where the part is processed. Foreign key to Location.LocationID. |
|  | ScheduledStartDate | datetime |  | Planned manufacturing start date. |
|  | ScheduledEndDate | datetime |  | Planned manufacturing end date. |
|  | ActualStartDate | datetime |  | Actual start date. |
|  | ActualEndDate | datetime |  | Actual end date. |
|  | ActualResourceHrs | decimal(9, 4) |  | Number of manufacturing hours used. |
|  | PlannedCost | money |  | Estimated manufacturing cost. |
|  | ActualCost | money |  | Actual manufacturing cost. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Location | Production.WorkOrderRouting.Locatio nID = Production.Location.LocationID | FK\_WorkOrderRouting\_Location\_LocationID  Foreign key constraint referencing Location.LocationID. |
|  | Production.WorkOrder | Production.WorkOrderRouting.WorkO rderID =  Production.WorkOrder.WorkOrderID | FK\_WorkOrderRouting\_WorkOrder\_WorkOrderID  Foreign key constraint referencing WorkOrder.WorkOrderID. |

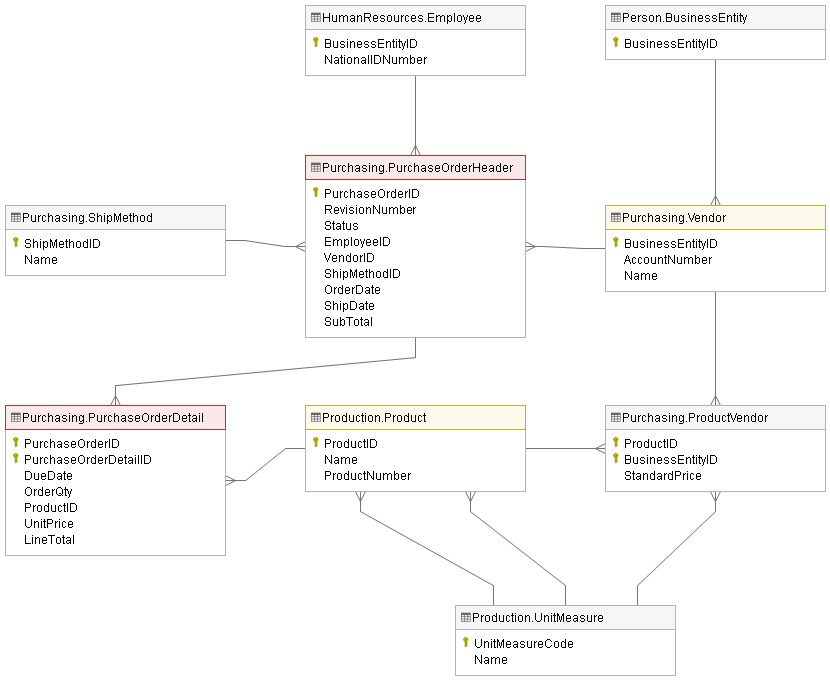
Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | WorkOrderID, ProductID, OperationSequence | PK\_WorkOrderRouting\_WorkOrderID\_ProductID\_OperationSequence Primary key (clustered) constraint |

Uses

|  |  |
| --- | --- |
|  | Name |
| Production.WorkOrderRouting |  |
| Production.Location |  |
| Production.WorkOrder |  |

# 7. Purchasing



Vendors from who parts and products are purchased.

### 7.1. Tables

##### 7.1.1. Table: Purchasing.ProductVendor

Cross-reference table mapping vendors with the products they supply.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name | Data type | | N | Description / Attributes |
|  | ProductID | int | |  | Primary key. Foreign key to Product.ProductID. |
|  | BusinessEntityID | int | |  | Primary key. Foreign key to Vendor.BusinessEntityID. |
|  | AverageLeadTime | int | |  | The average span of time (in days) between placing an order with the vendor and receiving the purchased product. |
|  | StandardPrice | money | |  | The vendor's usual selling price. |
|  | LastReceiptCost | money | |  | The selling price when last purchased. |
|  | LastReceiptDate | datetime | |  | Date the product was last received by the vendor. |
|  | MinOrderQty | int | |  | The maximum quantity that should be ordered. |
|  | Name |  | Data type | N | Description / Attributes |
|  | MaxOrderQty | int |  |  | The minimum quantity that should be ordered. |
|  | OnOrderQty | int |  |  | The quantity currently on order. |
|  | UnitMeasureCode | nchar(3) |  |  | The product's unit of measure. |
|  | ModifiedDate | datetime |  |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Purchasing.ProductVendor.ProductID = Production.Product.ProductID | FK\_ProductVendor\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Production.UnitMeasure | Purchasing.ProductVendor.UnitMeasu reCode =  Production.UnitMeasure.UnitMeasure  Code | FK\_ProductVendor\_UnitMeasure\_UnitMeasureCode  Foreign key constraint referencing UnitMeasure.UnitMeasureCode. |
|  | Purchasing.Vendor | Purchasing.ProductVendor.BusinessEn tityID =  Purchasing.Vendor.BusinessEntityID | FK\_ProductVendor\_Vendor\_BusinessEntityID  Foreign key constraint referencing Vendor.BusinessEntityID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | ProductID, BusinessEntityID | PK\_ProductVendor\_ProductID\_BusinessEntityID Primary key (clustered) constraint |

Uses

|  |  |
| --- | --- |
|  | Name |
| Purchasing.ProductVendor |  |
| Production.Product |  |
| Production.UnitMeasure |  |
| Purchasing.Vendor |  |

##### 7.1.2. Table: Purchasing.PurchaseOrderDetail

Individual products associated with a specific purchase order. See PurchaseOrderHeader.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | PurchaseOrderID | int |  | Primary key. Foreign key to PurchaseOrderHeader.PurchaseOrderID. |
|  | PurchaseOrderDetailID | int |  | Primary key. One line number per purchased product. Identity / Auto increment column |
|  | DueDate | datetime |  | Date the product is expected to be received. |
|  | OrderQty | smallint |  | Quantity ordered. |
|  | ProductID | int |  | Product identification number. Foreign key to Product.ProductID. |
|  | UnitPrice | money |  | Vendor's selling price of a single product. |
|  | LineTotal | money |  | Per product subtotal. Computed as OrderQty \* UnitPrice. Computed: isnull([OrderQty]\*[UnitPrice],(0.00)) |
|  | ReceivedQty | decimal(8, 2) |  | Quantity actually received from the vendor. |
|  | Name | Data type | N | Description / Attributes |
|  | RejectedQty | decimal(8, 2) |  | Quantity rejected during inspection. |
|  |  |  |  | Quantity accepted into inventory. Computed as ReceivedQty - |
|  | StockedQty | decimal(9, 2) |  | RejectedQty.  Computed: isnull([ReceivedQty]-[RejectedQty],(0.00)) |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Purchasing.PurchaseOrderDetail.Prod uctID = Production.Product.ProductID | FK\_PurchaseOrderDetail\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Purchasing.PurchaseOrderHeader | Purchasing.PurchaseOrderDetail.Purch aseOrderID =  Purchasing.PurchaseOrderHeader.Pur chaseOrderID | FK\_PurchaseOrderDetail\_PurchaseOrderHeader\_PurchaseOrderID  Foreign key constraint referencing  PurchaseOrderHeader.PurchaseOrderID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | PurchaseOrderID,  PurchaseOrderDetailID | PK\_PurchaseOrderDetail\_PurchaseOrderID\_PurchaseOrderDetailID Primary key (clustered) constraint |

Triggers

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | When | Description |
|  | iPurchaseOrderDetail | After Insert | AFTER INSERT trigger that inserts a row in the TransactionHistory table and updates the PurchaseOrderHeader.SubTotal column. |
|  |  |  | AFTER UPDATE trigger that inserts a row in the TransactionHistory table, |
|  | uPurchaseOrderDetail | After Update | updates ModifiedDate in PurchaseOrderDetail and updates the PurchaseOrderHeader.SubTotal column. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Purchasing.PurchaseOrderDetail |  |  |
| Production.Product |  |  |
| Purchasing.PurchaseOrderHeader |  |  |

##### 7.1.3. Table: Purchasing.PurchaseOrderHeader

General purchase order information. See PurchaseOrderDetail.

Columns

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | | N | Description / Attributes |
|  | PurchaseOrderID | int |  | |  | Primary key.  Identity / Auto increment column |
|  | RevisionNumber | tinyint |  | |  | Incremental number to track changes to the purchase order over time. Default: 0 |
|  |  |  |  | |  | Order current status. 1 = Pending; 2 = Approved; 3 = Rejected; 4 = |
|  | Status | tinyint |  | |  | Complete  Default: 1 |
|  | Name |  | | Data type | N | Description / Attributes |
|  | EmployeeID | int | |  |  | Employee who created the purchase order. Foreign key to Employee.BusinessEntityID. |
|  | VendorID | int | |  |  | Vendor with whom the purchase order is placed. Foreign key to Vendor.BusinessEntityID. |
|  | ShipMethodID | int | |  |  | Shipping method. Foreign key to ShipMethod.ShipMethodID. |
|  | OrderDate | datetime | |  |  | Purchase order creation date. Default: getdate() |
|  | ShipDate | datetime | |  |  | Estimated shipment date from the vendor. |
|  |  |  | |  |  | Purchase order subtotal. Computed as SUM |
|  | SubTotal | money | |  |  | (PurchaseOrderDetail.LineTotal)for the appropriate PurchaseOrderID. Default: 0.00 |
|  | TaxAmt | money | |  |  | Tax amount.  Default: 0.00 |
|  | Freight | money | |  |  | Shipping cost. Default: 0.00 |
|  | TotalDue | money | |  |  | Total due to vendor. Computed as Subtotal + TaxAmt + Freight. Computed: isnull(([SubTotal]+[TaxAmt])+[Freight],(0)) |
|  | ModifiedDate | datetime | |  |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | HumanResources.Employee | Purchasing.PurchaseOrderHeader.Em ployeeID =  HumanResources.Employee.BusinessE ntityID | FK\_PurchaseOrderHeader\_Employee\_EmployeeID  Foreign key constraint referencing Employee.EmployeeID. |
|  | Purchasing.ShipMethod | Purchasing.PurchaseOrderHeader.Shi pMethodID =  Purchasing.ShipMethod.ShipMethodID | FK\_PurchaseOrderHeader\_ShipMethod\_ShipMethodID  Foreign key constraint referencing ShipMethod.ShipMethodID. |
|  | Purchasing.Vendor | Purchasing.PurchaseOrderHeader.Ven dorID =  Purchasing.Vendor.BusinessEntityID | FK\_PurchaseOrderHeader\_Vendor\_VendorID  Foreign key constraint referencing Vendor.VendorID. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Purchasing.PurchaseOrderDetail | Purchasing.PurchaseOrderHeader.Pur chaseOrderID =  Purchasing.PurchaseOrderDetail.Purch aseOrderID | FK\_PurchaseOrderDetail\_PurchaseOrderHeader\_PurchaseOrderID  Foreign key constraint referencing  PurchaseOrderHeader.PurchaseOrderID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns | Name / Description | |
|  | PurchaseOrderID | PK\_PurchaseOrderHeader\_PurchaseOrderID Primary key (clustered) constraint | |
| Triggers | |  |  |
|  | Name | When | Description |
|  | uPurchaseOrderHeader | After Update | AFTER UPDATE trigger that updates the RevisionNumber and ModifiedDate columns in the PurchaseOrderHeader table. |

Uses

|  |  |
| --- | --- |
|  | Name |
| Purchasing.PurchaseOrderHeader |  |
| HumanResources.Employee |  |
| Purchasing.ShipMethod |  |
| Purchasing.Vendor |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| Purchasing.PurchaseOrderHeader |  |
| Purchasing.PurchaseOrderDetail |  |

##### 7.1.4. Table: Purchasing.ShipMethod

Shipping company lookup table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ShipMethodID | int |  | Primary key for ShipMethod records. Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Shipping company name. |
|  | ShipBase | money |  | Minimum shipping charge. Default: 0.00 |
|  | ShipRate | money |  | Shipping charge per pound. Default: 0.00 |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Purchasing.PurchaseOrderHeader | Purchasing.ShipMethod.ShipMethodID  =  Purchasing.PurchaseOrderHeader.Shi pMethodID | FK\_PurchaseOrderHeader\_ShipMethod\_ShipMethodID  Foreign key constraint referencing ShipMethod.ShipMethodID. |
|  | Sales.SalesOrderHeader | Purchasing.ShipMethod.ShipMethodID  =  Sales.SalesOrderHeader.ShipMethodI  D | FK\_SalesOrderHeader\_ShipMethod\_ShipMethodID  Foreign key constraint referencing ShipMethod.ShipMethodID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | ShipMethodID | PK\_ShipMethod\_ShipMethodID Primary key (clustered) constraint |  |
|  | Name | AK\_ShipMethod\_Name  Unique nonclustered index. |  |
|  | Columns | Name / Description | |
|  | rowguid | AK\_ShipMethod\_rowguid  Unique nonclustered index. Used to support replication samples. | |

Used by

|  |  |
| --- | --- |
|  | Name |
| Purchasing.ShipMethod |  |
| Purchasing.PurchaseOrderHeader |  |
| Sales.SalesOrderHeader |  |

##### 7.1.5. Table: Purchasing.Vendor

Companies from whom Adventure Works Cycles purchases parts or other goods.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Primary key for Vendor records. Foreign key to BusinessEntity.BusinessEntityID |
|  | AccountNumber | nvarchar(15) |  | Vendor account (identification) number. |
|  | Name | nvarchar(50) |  | Company name. |
|  | CreditRating | tinyint |  | 1 = Superior, 2 = Excellent, 3 = Above average, 4 = Average, 5 = Below average |
|  |  |  |  | 0 = Do not use if another vendor is available. 1 = Preferred over other |
|  | PreferredVendorStatus | bit |  | vendors supplying the same product. Default: 1 |
|  | ActiveFlag | bit |  | 0 = Vendor no longer used. 1 = Vendor is actively used. Default: 1 |
|  | PurchasingWebServiceURL | nvarchar(1024) |  | Vendor URL. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.BusinessEntity | Purchasing.Vendor.BusinessEntityID = Person.BusinessEntity.BusinessEntityID | FK\_Vendor\_BusinessEntity\_BusinessEntityID  Foreign key constraint referencing BusinessEntity.BusinessEntityID |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Purchasing.ProductVendor | Purchasing.Vendor.BusinessEntityID = Purchasing.ProductVendor.BusinessEn tityID | FK\_ProductVendor\_Vendor\_BusinessEntityID  Foreign key constraint referencing Vendor.BusinessEntityID. |
|  | Purchasing.PurchaseOrderHeader | Purchasing.Vendor.BusinessEntityID = Purchasing.PurchaseOrderHeader.Ven dorID | FK\_PurchaseOrderHeader\_Vendor\_VendorID  Foreign key constraint referencing Vendor.VendorID. |

Unique keys

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columns |  | | Name / Description |
|  | BusinessEntityID | PK\_Vendor\_BusinessEntityID  Primary key (clustered) constraint | |  |
|  | Columns |  | Name / Description | |
|  | AccountNumber | AK\_Vendor\_AccountNumber Unique nonclustered index. |  | |
| Triggers | |  |  | |
|  | Name | When | Description | |
|  | dVendor | Instead Of Delete | INSTEAD OF DELETE trigger which keeps Vendors from being deleted. | |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Purchasing.Vendor |  |  |
| Person.BusinessEntity |  |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| Purchasing.Vendor |  |
| Purchasing.ProductVendor |  |
| Purchasing.PurchaseOrderHeader |  |

### 7.2. Views

##### 7.2.1. View: Purchasing.vVendorWithAddresses

Vendor (company) names and addresses .

Columns

Description / Attributes

N

Data type

Name

int

BusinessEntityID

nvarchar(50)

Name

nvarchar(50)

AddressType

nvarchar(60)

AddressLine1



nvarchar(60)

AddressLine2

nvarchar(30)

City

nvarchar(50)

StateProvinceName

nvarchar(15)

PostalCode

nvarchar(50)

CountryRegionName

##### 7.2.2. View: Purchasing.vVendorWithContacts

Vendor (company) names and the names of vendor employees to contact.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | Name | nvarchar(50) |  |  |
|  | ContactType | nvarchar(50) |  |  |
|  | Name | Data type | N | Description / Attributes |
|  | Title | nvarchar(8) |  |  |
|  | FirstName | nvarchar(50) |  |  |
|  | MiddleName | nvarchar(50) |  |  |
|  | LastName | nvarchar(50) |  |  |
|  | Suffix | nvarchar(10) |  |  |
|  | PhoneNumber | nvarchar(25) |  |  |
|  | PhoneNumberType | nvarchar(50) |  |  |
|  | EmailAddress | nvarchar(50) |  |  |
|  | EmailPromotion | int |  |  |

### 7.3. Functions

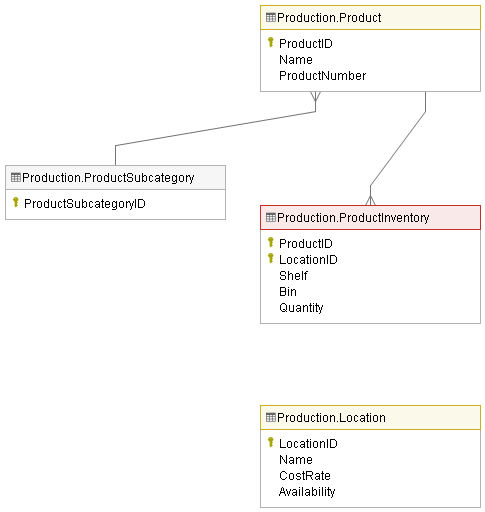
##### 7.3.1. Function: dbo.ufnGetPurchaseOrderStatusText

Scalar function returning the text representation of the Status column in the PurchaseOrderHeader table.

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | Returns | nvarchar(15) |  |
|  | Status | tinyint | Input parameter for the scalar function ufnGetPurchaseOrdertStatusText. Enter a valid integer. |

# 8. Inventory



### 8.1. Tables

##### 8.1.1. Table: Production.Location

Product inventory and manufacturing locations.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | LocationID | smallint |  | Primary key for Location records.  Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Location description. |
|  | CostRate | smallmoney |  | Standard hourly cost of the manufacturing location. Default: 0.00 |
|  | Availability | decimal(8, 2) |  | Work capacity (in hours) of the manufacturing location. Default: 0.00 |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.ProductInventory | Production.Location.LocationID =  Production.ProductInventory.LocationI  D | FK\_ProductInventory\_Location\_LocationID  Foreign key constraint referencing Location.LocationID. |
|  | Table | Join | Title / Name / Description |
|  | Production.WorkOrderRouting | Production.Location.LocationID = Production.WorkOrderRouting.Locatio nID | FK\_WorkOrderRouting\_Location\_LocationID  Foreign key constraint referencing Location.LocationID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | LocationID | PK\_Location\_LocationID  Primary key (clustered) constraint |  |
|  | Name | AK\_Location\_Name  Unique nonclustered index. |  |

Used by

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Production.Location |  |  |
| Production.ProductInventory |  |  |
| Production.WorkOrderRouting |  |  |

##### 8.1.2. Table: Production.ProductInventory

Product inventory information.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ProductID | int |  | Product identification number. Foreign key to Product.ProductID. |
|  | LocationID | smallint |  | Inventory location identification number. Foreign key to Location.LocationID. |
|  | Shelf | nvarchar(10) |  | Storage compartment within an inventory location. |
|  | Bin | tinyint |  | Storage container on a shelf in an inventory location. |
|  | Quantity | smallint |  | Quantity of products in the inventory location. Default: 0 |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Location | Production.ProductInventory.LocationI D = Production.Location.LocationID | FK\_ProductInventory\_Location\_LocationID  Foreign key constraint referencing Location.LocationID. |
|  | Production.Product | Production.ProductInventory.ProductI D = Production.Product.ProductID | FK\_ProductInventory\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |

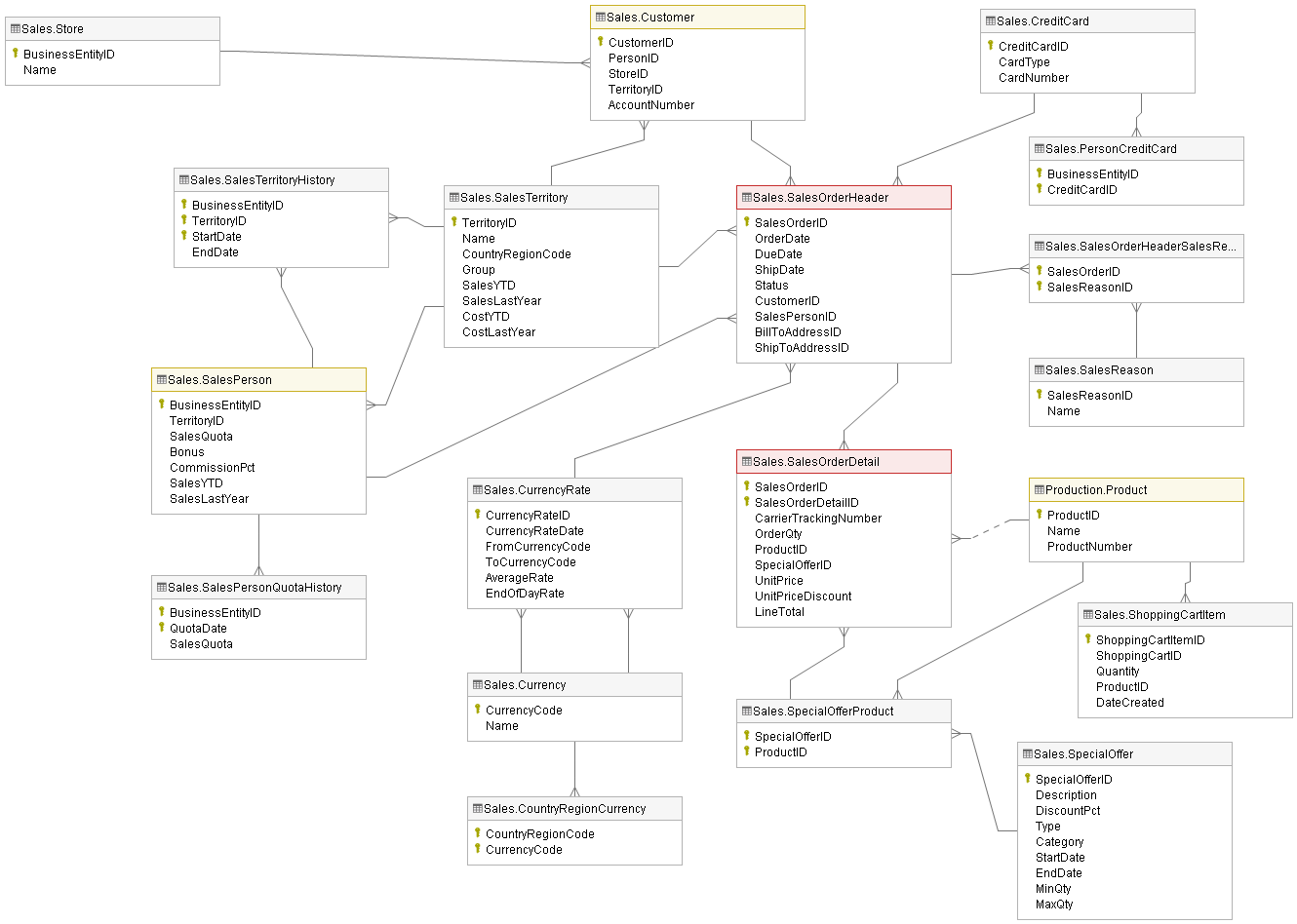
Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | ProductID, LocationID | PK\_ProductInventory\_ProductID\_LocationID Primary key (clustered) constraint |  |

Uses

|  |
| --- |
| Name |
| Production.ProductInventory |
| Production.Location |
| Production.Product |

# 9. Sales



Sales module holds information about shopping cart, sales orders, special offers and sales people.

### 9.1. Tables

##### 9.1.1. Table: Sales.CountryRegionCurrency

Cross-reference table mapping ISO currency codes to a country or region.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | CountryRegionCode | nvarchar(3) |  | ISO code for countries and regions. Foreign key to CountryRegion.CountryRegionCode. |
|  | CurrencyCode | nchar(3) |  | ISO standard currency code. Foreign key to Currency.CurrencyCode. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.CountryRegion | Sales.CountryRegionCurrency.Country  RegionCode =  Person.CountryRegion.CountryRegion Code | FK\_CountryRegionCurrency\_CountryRegion\_CountryRegionCode  Foreign key constraint referencing  CountryRegion.CountryRegionCode. |
|  | Table | Join | Title / Name / Description |
|  | Sales.Currency | Sales.CountryRegionCurrency.Currenc yCode =  Sales.Currency.CurrencyCode | FK\_CountryRegionCurrency\_Currency\_CurrencyCode  Foreign key constraint referencing Currency.CurrencyCode. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | CountryRegionCode, CurrencyCode | PK\_CountryRegionCurrency\_CountryRegionCode\_CurrencyCode Primary key (clustered) constraint |

Uses

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Name |
| Sales.CountryRegionCurrency |  |  |  |
| Person.CountryRegion |  |  |  |
| Sales.Currency |  |  |  |

##### 9.1.2. Table: Sales.CreditCard

Customer credit card information.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | CreditCardID | int |  | Primary key for CreditCard records. Identity / Auto increment column |
|  | CardType | nvarchar(50) |  | Credit card name. |
|  | CardNumber | nvarchar(25) |  | Credit card number. |
|  | ExpMonth | tinyint |  | Credit card expiration month. |
|  | ExpYear | smallint |  | Credit card expiration year. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.PersonCreditCard | Sales.CreditCard.CreditCardID =  Sales.PersonCreditCard.CreditCardID | FK\_PersonCreditCard\_CreditCard\_CreditCardID  Foreign key constraint referencing CreditCard.CreditCardID. |
|  | Sales.SalesOrderHeader | Sales.CreditCard.CreditCardID =  Sales.SalesOrderHeader.CreditCardID | FK\_SalesOrderHeader\_CreditCard\_CreditCardID  Foreign key constraint referencing CreditCard.CreditCardID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | CreditCardID | PK\_CreditCard\_CreditCardID  Primary key (clustered) constraint |  |
|  | CardNumber | AK\_CreditCard\_CardNumber Unique nonclustered index. |  |

Used by

|  |  |  |
| --- | --- | --- |
|  | Name | |
| Sales.CreditCard |  | |
|  | | Name |
| Sales.PersonCreditCard | |  |
| Sales.SalesOrderHeader | |  |

##### 9.1.3. Table: Sales.Currency

Lookup table containing standard ISO currencies.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | CurrencyCode | nchar(3) |  | The ISO code for the Currency. |
|  | Name | nvarchar(50) |  | Currency name. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.CountryRegionCurrency | Sales.Currency.CurrencyCode = Sales.CountryRegionCurrency.Currenc yCode | FK\_CountryRegionCurrency\_Currency\_CurrencyCode  Foreign key constraint referencing Currency.CurrencyCode. |
|  | Sales.CurrencyRate | Sales.Currency.CurrencyCode = Sales.CurrencyRate.FromCurrencyCod e | FK\_CurrencyRate\_Currency\_FromCurrencyCode  Foreign key constraint referencing Currency.FromCurrencyCode. |
|  | Sales.CurrencyRate | Sales.Currency.CurrencyCode =  Sales.CurrencyRate.ToCurrencyCode | FK\_CurrencyRate\_Currency\_ToCurrencyCode  Foreign key constraint referencing Currency.FromCurrencyCode. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | CurrencyCode | PK\_Currency\_CurrencyCode  Primary key (clustered) constraint |  |
|  | Name | AK\_Currency\_Name  Unique nonclustered index. |  |

Used by

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Name |
| Sales.Currency |  |  |  |
| Sales.CountryRegionCurrency |  |  |  |
| Sales.CurrencyRate |  |  |  |
| Sales.CurrencyRate |  |  |  |

##### 9.1.4. Table: Sales.CurrencyRate

Currency exchange rates.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name | N | Description / Attributes | | |
|  | CurrencyRateID |  | Primary key for CurrencyRate records. Identity / Auto increment column | | |
|  | CurrencyRateDate |  | Date and time the exchange rate was obtained. | | |
|  | Name |  | | N | Description / Attributes | |
|  | FromCurrencyCode | nchar(3) | |  | Exchange rate was converted from this currency code. | |
|  | ToCurrencyCode | nchar(3) | |  | Exchange rate was converted to this currency code. | |
|  | AverageRate | money | |  | Average exchange rate for the day. | |
|  | EndOfDayRate | money | |  | Final exchange rate for the day. | |
|  | ModifiedDate | datetime | |  | Date and time the record was last updated. Default: getdate() | |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.Currency | Sales.CurrencyRate.FromCurrencyCod e = Sales.Currency.CurrencyCode | FK\_CurrencyRate\_Currency\_FromCurrencyCode  Foreign key constraint referencing Currency.FromCurrencyCode. |
|  | Sales.Currency | Sales.CurrencyRate.ToCurrencyCode = Sales.Currency.CurrencyCode | FK\_CurrencyRate\_Currency\_ToCurrencyCode  Foreign key constraint referencing Currency.FromCurrencyCode. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.SalesOrderHeader | Sales.CurrencyRate.CurrencyRateID =  Sales.SalesOrderHeader.CurrencyRateI  D | FK\_SalesOrderHeader\_CurrencyRate\_CurrencyRateID  Foreign key constraint referencing CurrencyRate.CurrencyRateID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | CurrencyRateID | PK\_CurrencyRate\_CurrencyRateID Primary key (clustered) constraint |
|  | CurrencyRateDate,  FromCurrencyCode,  ToCurrencyCode | AK\_CurrencyRate\_CurrencyRateDate\_FromCurrencyCode\_ToCurrencyCode Unique nonclustered index. |

Uses

|  |  |
| --- | --- |
|  | Name |
| Sales.CurrencyRate |  |
| Sales.Currency |  |
| Sales.Currency |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| Sales.CurrencyRate |  |
| Sales.SalesOrderHeader |  |

##### 9.1.5. Table: Sales.Customer

Current customer information. Also see the Person and Store tables.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | CustomerID | int |  |  | Primary key.  Identity / Auto increment column |
|  | Name | Data type | | N | Description / Attributes |
|  | PersonID | int | |  | Foreign key to Person.BusinessEntityID |
|  | StoreID | int | |  | Foreign key to Store.BusinessEntityID |
|  | TerritoryID | int | |  | ID of the territory in which the customer is located. Foreign key to SalesTerritory.SalesTerritoryID. |
|  |  |  | |  | Unique number identifying the customer assigned by the accounting |
|  | AccountNumber | varchar(10) | |  | system.  Computed: isnull('AW'+[ufnLeadingZeros]([CustomerID]),'') |
|  |  |  | |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier | |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime | |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.Person | Sales.Customer.PersonID =  Person.Person.BusinessEntityID | FK\_Customer\_Person\_PersonID  Foreign key constraint referencing Person.BusinessEntityID. |
|  | Sales.SalesTerritory | Sales.Customer.TerritoryID = Sales.SalesTerritory.TerritoryID | FK\_Customer\_SalesTerritory\_TerritoryID  Foreign key constraint referencing SalesTerritory.TerritoryID. |
|  | Sales.Store | Sales.Customer.StoreID = Sales.Store.BusinessEntityID | FK\_Customer\_Store\_StoreID  Foreign key constraint referencing Store.BusinessEntityID. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.SalesOrderHeader | Sales.Customer.CustomerID =  Sales.SalesOrderHeader.CustomerID | FK\_SalesOrderHeader\_Customer\_CustomerID  Foreign key constraint referencing Customer.CustomerID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | CustomerID | PK\_Customer\_CustomerID  Primary key (clustered) constraint |
|  | AccountNumber | AK\_Customer\_AccountNumber Unique nonclustered index. |
|  | rowguid | AK\_Customer\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |  |
| --- | --- |
|  | Name |
| Sales.Customer |  |
| Person.Person |  |
| Sales.SalesTerritory |  |
| Sales.Store |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| Sales.Customer |  |
| Sales.SalesOrderHeader |  |

##### 9.1.6. Table: Sales.PersonCreditCard

Cross-reference table mapping people to their credit card information in the CreditCard table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name |  | N | Description / Attributes |
|  | BusinessEntityID | int |  | Business entity identification number. Foreign key to Person.BusinessEntityID. |
|  | CreditCardID | int |  | Credit card identification number. Foreign key to CreditCard.CreditCardID. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.CreditCard | Sales.PersonCreditCard.CreditCardID = Sales.CreditCard.CreditCardID | FK\_PersonCreditCard\_CreditCard\_CreditCardID  Foreign key constraint referencing CreditCard.CreditCardID. |
|  | Person.Person | Sales.PersonCreditCard.BusinessEntityI D = Person.Person.BusinessEntityID | FK\_PersonCreditCard\_Person\_BusinessEntityID  Foreign key constraint referencing Person.BusinessEntityID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID, CreditCardID | PK\_PersonCreditCard\_BusinessEntityID\_CreditCardID Primary key (clustered) constraint |

Uses

|  |  |
| --- | --- |
|  | Name |
| Sales.PersonCreditCard |  |
| Person.Person |  |
| Sales.CreditCard |  |

##### 9.1.7. Table: Sales.SalesOrderDetail

Individual products associated with a specific sales order. See SalesOrderHeader.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | SalesOrderID | int |  | Primary key. Foreign key to SalesOrderHeader.SalesOrderID. |
|  | SalesOrderDetailID | int |  | Primary key. One incremental unique number per product sold. Identity / Auto increment column |
|  | CarrierTrackingNumber | nvarchar(25) |  | Shipment tracking number supplied by the shipper. |
|  | OrderQty | smallint |  | Quantity ordered per product. |
|  | ProductID | int |  | Product sold to customer. Foreign key to Product.ProductID. |
|  | SpecialOfferID | int |  | Promotional code. Foreign key to SpecialOffer.SpecialOfferID. |
|  | UnitPrice | money |  | Selling price of a single product. |
|  | UnitPriceDiscount | money |  | Discount amount. Default: 0.0 |
|  | Name | Data type | N | Description / Attributes |
|  |  |  |  | Per product subtotal. Computed as UnitPrice \* (1 - UnitPriceDiscount) \* |
|  | LineTotal | numeric(38, 6) |  | OrderQty.  Computed: isnull(([UnitPrice]\*((1.0)-[UnitPriceDiscount]))\*[OrderQty],(0.0)) |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Sales.SalesOrderDetail.ProductID = Production.Product.ProductID | User-defined relation |
|  | Sales.SalesOrderHeader | Sales.SalesOrderDetail.SalesOrderID = Sales.SalesOrderHeader.SalesOrderID | FK\_SalesOrderDetail\_SalesOrderHeader\_SalesOrderID  Foreign key constraint referencing SalesOrderHeader.PurchaseOrderID. |
|  | Sales.SpecialOfferProduct | Sales.SalesOrderDetail.SpecialOfferID  =  Sales.SpecialOfferProduct.SpecialOffer ID,  Sales.SalesOrderDetail.ProductID =  Sales.SpecialOfferProduct.ProductID | FK\_SalesOrderDetail\_SpecialOfferProduct\_SpecialOfferIDProductID  Foreign key constraint referencing  SpecialOfferProduct.SpecialOfferIDProductID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | SalesOrderID, SalesOrderDetailID | PK\_SalesOrderDetail\_SalesOrderID\_SalesOrderDetailID Primary key (clustered) constraint |
|  | rowguid | AK\_SalesOrderDetail\_rowguid  Unique nonclustered index. Used to support replication samples. |

Triggers

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | When | Description |
|  |  |  | AFTER INSERT, DELETE, UPDATE trigger that inserts a row in the |
|  | iduSalesOrderDetail | After Insert, Update, Delete | TransactionHistory table, updates ModifiedDate in SalesOrderDetail and updates the SalesOrderHeader.SubTotal column. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Sales.SalesOrderDetail |  |  |
| Production.Product |  |  |
| Sales.SalesOrderHeader |  |  |
| Sales.SpecialOfferProduct |  |  |

##### 9.1.8. Table: Sales.SalesOrderHeader

General sales order information.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | SalesOrderID | int |  |  | Primary key.  Identity / Auto increment column |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | RevisionNumber | tinyint |  | Incremental number to track changes to the sales order over time. Default: 0 |
|  | OrderDate | datetime |  | Dates the sales order was created. Default: getdate() |
|  | DueDate | datetime |  | Date the order is due to the customer. |
|  | ShipDate | datetime |  | Date the order was shipped to the customer. |
|  |  |  |  | Order current status. 1 = In process; 2 = Approved; 3 = Backordered; 4 = |
|  | Status | tinyint |  | Rejected; 5 = Shipped; 6 = Cancelled Default: 1 |
|  | OnlineOrderFlag | bit |  | 0 = Order placed by sales person. 1 = Order placed online by customer. Default: 1 |
|  |  |  |  | Unique sales order identification number. |
|  | SalesOrderNumber | nvarchar(25) |  | Computed: isnull(N'SO'+CONVERT([nvarchar](23),[SalesOrderID]),N'\*\*\* ERROR \*\*\*') |
|  | PurchaseOrderNumber | nvarchar(25) |  | Customer purchase order number reference. |
|  | AccountNumber | nvarchar(15) |  | Financial accounting number reference. |
|  | CustomerID | int |  | Customer identification number. Foreign key to Customer.BusinessEntityID. |
|  | SalesPersonID | int |  | Sales person who created the sales order. Foreign key to SalesPerson.BusinessEntityID. |
|  | TerritoryID | int |  | Territory in which the sale was made. Foreign key to SalesTerritory.SalesTerritoryID. |
|  | BillToAddressID | int |  | Customer billing address. Foreign key to Address.AddressID. |
|  | ShipToAddressID | int |  | Customer shipping address. Foreign key to Address.AddressID. |
|  | ShipMethodID | int |  | Shipping method. Foreign key to ShipMethod.ShipMethodID. |
|  | CreditCardID | int |  | Credit card identification number. Foreign key to CreditCard.CreditCardID. |
|  | CreditCardApprovalCode | varchar(15) |  | Approval code provided by the credit card company. |
|  | CurrencyRateID | int |  | Currency exchange rate used. Foreign key to CurrencyRate.CurrencyRateID. |
|  |  |  |  | Sales subtotal. Computed as SUM(SalesOrderDetail.LineTotal)for the |
|  | SubTotal | money |  | appropriate SalesOrderID. Default: 0.00 |
|  | TaxAmt | money |  | Tax amount.  Default: 0.00 |
|  | Freight | money |  | Shipping cost. Default: 0.00 |
|  | TotalDue | money |  | Total due from customer. Computed as Subtotal + TaxAmt + Freight. Computed: isnull(([SubTotal]+[TaxAmt])+[Freight],(0)) |
|  | Comment | nvarchar(128) |  | Sales representative comments. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.Address | Sales.SalesOrderHeader.BillToAddressI D = Person.Address.AddressID | FK\_SalesOrderHeader\_Address\_BillToAddressID  Foreign key constraint referencing Address.AddressID. |
|  | Person.Address | Sales.SalesOrderHeader.ShipToAddres sID = Person.Address.AddressID | FK\_SalesOrderHeader\_Address\_ShipToAddressID  Foreign key constraint referencing Address.AddressID. |
|  | Sales.CreditCard | Sales.SalesOrderHeader.CreditCardID = Sales.CreditCard.CreditCardID | FK\_SalesOrderHeader\_CreditCard\_CreditCardID  Foreign key constraint referencing CreditCard.CreditCardID. |
|  | Sales.CurrencyRate | Sales.SalesOrderHeader.CurrencyRateI  D =  Sales.CurrencyRate.CurrencyRateID | FK\_SalesOrderHeader\_CurrencyRate\_CurrencyRateID  Foreign key constraint referencing CurrencyRate.CurrencyRateID. |
|  | Sales.Customer | Sales.SalesOrderHeader.CustomerID = Sales.Customer.CustomerID | FK\_SalesOrderHeader\_Customer\_CustomerID  Foreign key constraint referencing Customer.CustomerID. |
|  | Sales.SalesPerson | Sales.SalesOrderHeader.SalesPersonID = Sales.SalesPerson.BusinessEntityID | FK\_SalesOrderHeader\_SalesPerson\_SalesPersonID  Foreign key constraint referencing SalesPerson.SalesPersonID. |
|  | Sales.SalesTerritory | Sales.SalesOrderHeader.TerritoryID = Sales.SalesTerritory.TerritoryID | FK\_SalesOrderHeader\_SalesTerritory\_TerritoryID  Foreign key constraint referencing SalesTerritory.TerritoryID. |
|  | Purchasing.ShipMethod | Sales.SalesOrderHeader.ShipMethodI  D =  Purchasing.ShipMethod.ShipMethodID | FK\_SalesOrderHeader\_ShipMethod\_ShipMethodID  Foreign key constraint referencing ShipMethod.ShipMethodID. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.SalesOrderDetail | Sales.SalesOrderHeader.SalesOrderID = Sales.SalesOrderDetail.SalesOrderID | FK\_SalesOrderDetail\_SalesOrderHeader\_SalesOrderID  Foreign key constraint referencing SalesOrderHeader.PurchaseOrderID. |
|  | Sales.SalesOrderHeaderSalesReaso n | Sales.SalesOrderHeader.SalesOrderID  =  Sales.SalesOrderHeaderSalesReason.S alesOrderID | FK\_SalesOrderHeaderSalesReason\_SalesOrderHeader\_SalesOrderID Foreign key constraint referencing SalesOrderHeader.SalesOrderID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | SalesOrderID | PK\_SalesOrderHeader\_SalesOrderID Primary key (clustered) constraint |
|  | rowguid | AK\_SalesOrderHeader\_rowguid  Unique nonclustered index. Used to support replication samples. |
|  | SalesOrderNumber | AK\_SalesOrderHeader\_SalesOrderNumber Unique nonclustered index. |

Triggers

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | When | Description |
|  |  |  | AFTER UPDATE trigger that updates the RevisionNumber and ModifiedDate |
|  | uSalesOrderHeader | After Update | columns in the SalesOrderHeader table.Updates the SalesYTD column in the SalesPerson and SalesTerritory tables. |

Uses

|  |  |
| --- | --- |
|  | Name |
| Sales.SalesOrderHeader | |
| Person.Address | |
| Person.Address | |
| Purchasing.ShipMethod | |
| Sales.CreditCard | |
| Sales.CurrencyRate | |
| Sales.Customer | |
| Sales.SalesPerson | |
| Sales.SalesTerritory | |

Used by

|  |
| --- |
| Name |
| Sales.SalesOrderHeader |
| Sales.SalesOrderDetail |
| Sales.SalesOrderHeaderSalesReason |

##### 9.1.9. Table: Sales.SalesOrderHeaderSalesReason

Cross-reference table mapping sales orders to sales reason codes.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | SalesOrderID | int |  |  | Primary key. Foreign key to SalesOrderHeader.SalesOrderID. |
|  | SalesReasonID | int |  |  | Primary key. Foreign key to SalesReason.SalesReasonID. |
|  | ModifiedDate | datetime |  |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.SalesOrderHeader | Sales.SalesOrderHeaderSalesReason.S alesOrderID =  Sales.SalesOrderHeader.SalesOrderID | FK\_SalesOrderHeaderSalesReason\_SalesOrderHeader\_SalesOrderID Foreign key constraint referencing SalesOrderHeader.SalesOrderID. |
|  | Sales.SalesReason | Sales.SalesOrderHeaderSalesReason.S alesReasonID =  Sales.SalesReason.SalesReasonID | FK\_SalesOrderHeaderSalesReason\_SalesReason\_SalesReasonID Foreign key constraint referencing SalesReason.SalesReasonID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | SalesOrderID, SalesReasonID | PK\_SalesOrderHeaderSalesReason\_SalesOrderID\_SalesReasonID Primary key (clustered) constraint |

Uses

|  |  |
| --- | --- |
|  | Name |
| Sales.SalesOrderHeaderSalesReason |  |
| Sales.SalesOrderHeader |  |
| Sales.SalesReason |  |

##### 9.1.10. Table: Sales.SalesPerson

Sales representative current information.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Primary key for SalesPerson records. Foreign key to Employee.BusinessEntityID |
|  | TerritoryID | int |  | Territory currently assigned to. Foreign key to SalesTerritory.SalesTerritoryID. |
|  | SalesQuota | money |  | Projected yearly sales. |
|  | Bonus | money |  | Bonus due if quota is met. Default: 0.00 |
|  | CommissionPct | smallmoney |  | Commision percent received per sale. Default: 0.00 |
|  | SalesYTD | money |  | Sales total year to date. Default: 0.00 |
|  | SalesLastYear | money |  | Sales total of previous year. Default: 0.00 |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | HumanResources.Employee | Sales.SalesPerson.BusinessEntityID = HumanResources.Employee.BusinessE ntityID | FK\_SalesPerson\_Employee\_BusinessEntityID  Foreign key constraint referencing Employee.EmployeeID. |
|  | Sales.SalesTerritory | Sales.SalesPerson.TerritoryID = Sales.SalesTerritory.TerritoryID | FK\_SalesPerson\_SalesTerritory\_TerritoryID  Foreign key constraint referencing SalesTerritory.TerritoryID. |

Linked from

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Table | | Join | Title / Name / Description |
|  | Sales.SalesOrderHeader | | Sales.SalesPerson.BusinessEntityID = Sales.SalesOrderHeader.SalesPersonID | FK\_SalesOrderHeader\_SalesPerson\_SalesPersonID  Foreign key constraint referencing SalesPerson.SalesPersonID. |
|  | Sales.SalesPersonQuotaHistory | | Sales.SalesPerson.BusinessEntityID = Sales.SalesPersonQuotaHistory.Busine ssEntityID | FK\_SalesPersonQuotaHistory\_SalesPerson\_BusinessEntityID  Foreign key constraint referencing SalesPerson.SalesPersonID. |
|  | Sales.SalesTerritoryHistory | | Sales.SalesPerson.BusinessEntityID = Sales.SalesTerritoryHistory.BusinessEnti tyID | FK\_SalesTerritoryHistory\_SalesPerson\_BusinessEntityID  Foreign key constraint referencing SalesPerson.SalesPersonID. |
|  |  | Table | Join | Title / Name / Description |
|  | Sales.Store |  | Sales.SalesPerson.BusinessEntityID = Sales.Store.SalesPersonID | FK\_Store\_SalesPerson\_SalesPersonID  Foreign key constraint referencing SalesPerson.SalesPersonID |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID | PK\_SalesPerson\_BusinessEntityID Primary key (clustered) constraint |
|  | rowguid | AK\_SalesPerson\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Sales.SalesPerson |  |  |
| HumanResources.Employee |  |  |
| Sales.SalesTerritory |  |  |

Used by

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Sales.SalesPerson |  |  |
| Sales.SalesOrderHeader |  |  |
| Sales.SalesPersonQuotaHistory |  |  |
| Sales.SalesTerritoryHistory |  |  |
| Sales.Store |  |  |

##### 9.1.11. Table: Sales.SalesPersonQuotaHistory

Sales performance tracking.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Sales person identification number. Foreign key to SalesPerson.BusinessEntityID. |
|  | QuotaDate | datetime |  | Sales quota date. |
|  | SalesQuota | money |  | Sales quota amount. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.SalesPerson | Sales.SalesPersonQuotaHistory.Busine ssEntityID =  Sales.SalesPerson.BusinessEntityID | FK\_SalesPersonQuotaHistory\_SalesPerson\_BusinessEntityID  Foreign key constraint referencing SalesPerson.SalesPersonID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID, QuotaDate | PK\_SalesPersonQuotaHistory\_BusinessEntityID\_QuotaDate Primary key (clustered) constraint |
|  | rowguid | AK\_SalesPersonQuotaHistory\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Sales.SalesPersonQuotaHistory |  |  |
| Sales.SalesPerson |  |  |

##### 9.1.12. Table: Sales.SalesReason

Lookup table of customer purchase reasons.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | SalesReasonID | int |  | Primary key for SalesReason records. Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Sales reason description. |
|  | ReasonType | nvarchar(50) |  | Category the sales reason belongs to. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.SalesOrderHeaderSalesReaso n | Sales.SalesReason.SalesReasonID = Sales.SalesOrderHeaderSalesReason.S alesReasonID | FK\_SalesOrderHeaderSalesReason\_SalesReason\_SalesReasonID Foreign key constraint referencing SalesReason.SalesReasonID. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | SalesReasonID | PK\_SalesReason\_SalesReasonID Primary key (clustered) constraint |  |

Used by

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Sales.SalesReason |  |  |
| Sales.SalesOrderHeaderSalesReason |  |  |

##### 9.1.13. Table: Sales.SalesTaxRate

Tax rate lookup table.

Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name |  | Data type | N | Description / Attributes |
|  | SalesTaxRateID | int |  |  | Primary key for SalesTaxRate records. Identity / Auto increment column |
|  | Name | Data type | | N | Description / Attributes |
|  | StateProvinceID | int | |  | State, province, or country/region the sales tax applies to. |
|  | TaxType | tinyint | |  | 1 = Tax applied to retail transactions, 2 = Tax applied to wholesale transactions, 3 = Tax applied to all sales (retail and wholesale) transactions. |
|  | TaxRate | smallmoney | |  | Tax rate amount. Default: 0.00 |
|  | Name | nvarchar(50) | |  | Tax rate description. |
|  |  |  | |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier | |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime | |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.StateProvince | Sales.SalesTaxRate.StateProvinceID = Person.StateProvince.StateProvinceID | FK\_SalesTaxRate\_StateProvince\_StateProvinceID  Foreign key constraint referencing StateProvince.StateProvinceID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | SalesTaxRateID | PK\_SalesTaxRate\_SalesTaxRateID Primary key (clustered) constraint |
|  | rowguid | AK\_SalesTaxRate\_rowguid  Unique nonclustered index. Used to support replication samples. |
|  | StateProvinceID, TaxType | AK\_SalesTaxRate\_StateProvinceID\_TaxType Unique nonclustered index. |

Uses

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Name |
| Sales.SalesTaxRate |  |  |  |
| Person.StateProvince |  |  |  |

##### 9.1.14. Table: Sales.SalesTerritory

Sales territory lookup table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | TerritoryID | int |  | Primary key for SalesTerritory records. Identity / Auto increment column |
|  | Name | nvarchar(50) |  | Sales territory description |
|  | CountryRegionCode | nvarchar(3) |  | ISO standard country or region code. Foreign key to CountryRegion.CountryRegionCode. |
|  | Group | nvarchar(50) |  | Geographic area to which the sales territory belong. |
|  | SalesYTD | money |  | Sales in the territory year to date. Default: 0.00 |
|  | SalesLastYear | money |  | Sales in the territory the previous year. Default: 0.00 |
|  | Name | Data type | N | Description / Attributes |
|  | CostYTD | money |  | Business costs in the territory year to date. Default: 0.00 |
|  | CostLastYear | money |  | Business costs in the territory the previous year. Default: 0.00 |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.CountryRegion | Sales.SalesTerritory.CountryRegionCo de =  Person.CountryRegion.CountryRegion Code | FK\_SalesTerritory\_CountryRegion\_CountryRegionCode  Foreign key constraint referencing  CountryRegion.CountryRegionCode. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.Customer | Sales.SalesTerritory.TerritoryID = Sales.Customer.TerritoryID | FK\_Customer\_SalesTerritory\_TerritoryID  Foreign key constraint referencing SalesTerritory.TerritoryID. |
|  | Sales.SalesOrderHeader | Sales.SalesTerritory.TerritoryID = Sales.SalesOrderHeader.TerritoryID | FK\_SalesOrderHeader\_SalesTerritory\_TerritoryID  Foreign key constraint referencing SalesTerritory.TerritoryID. |
|  | Sales.SalesPerson | Sales.SalesTerritory.TerritoryID = Sales.SalesPerson.TerritoryID | FK\_SalesPerson\_SalesTerritory\_TerritoryID  Foreign key constraint referencing SalesTerritory.TerritoryID. |
|  | Sales.SalesTerritoryHistory | Sales.SalesTerritory.TerritoryID =  Sales.SalesTerritoryHistory.TerritoryID | FK\_SalesTerritoryHistory\_SalesTerritory\_TerritoryID  Foreign key constraint referencing SalesTerritory.TerritoryID. |
|  | Person.StateProvince | Sales.SalesTerritory.TerritoryID = Person.StateProvince.TerritoryID | FK\_StateProvince\_SalesTerritory\_TerritoryID  Foreign key constraint referencing SalesTerritory.TerritoryID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | TerritoryID | PK\_SalesTerritory\_TerritoryID  Primary key (clustered) constraint |
|  | Name | AK\_SalesTerritory\_Name  Unique nonclustered index. |
|  | rowguid | AK\_SalesTerritory\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |  |
| --- | --- |
|  | Name |
| Sales.SalesTerritory |  |
| Person.CountryRegion |  |

Used by

|  |  |  |
| --- | --- | --- |
|  | Name | |
| Sales.SalesTerritory |  | |
| Person.StateProvince |  | |
|  | | Name |
| Sales.Customer | |  |
| Sales.SalesOrderHeader | |  |
| Sales.SalesPerson | |  |
| Sales.SalesTerritoryHistory | |  |

##### 9.1.15. Table: Sales.SalesTerritoryHistory

Sales representative transfers to other sales territories.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Primary key. The sales rep. Foreign key to SalesPerson.BusinessEntityID. |
|  | TerritoryID | int |  | Primary key. Territory identification number. Foreign key to SalesTerritory.SalesTerritoryID. |
|  | StartDate | datetime |  | Primary key. Date the sales representive started work in the territory. |
|  | EndDate | datetime |  | Date the sales representative left work in the territory. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.SalesPerson | Sales.SalesTerritoryHistory.BusinessEnti tyID =  Sales.SalesPerson.BusinessEntityID | FK\_SalesTerritoryHistory\_SalesPerson\_BusinessEntityID  Foreign key constraint referencing SalesPerson.SalesPersonID. |
|  | Sales.SalesTerritory | Sales.SalesTerritoryHistory.TerritoryID = Sales.SalesTerritory.TerritoryID | FK\_SalesTerritoryHistory\_SalesTerritory\_TerritoryID  Foreign key constraint referencing SalesTerritory.TerritoryID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID, StartDate, TerritoryID | PK\_SalesTerritoryHistory\_BusinessEntityID\_StartDate\_TerritoryID Primary key (clustered) constraint |
|  | rowguid | AK\_SalesTerritoryHistory\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |  |
| --- | --- |
|  | Name |
| Sales.SalesTerritoryHistory |  |
| Sales.SalesPerson |  |
| Sales.SalesTerritory |  |

##### 9.1.16. Table: Sales.ShoppingCartItem

Contains online customer orders until the order is submitted or cancelled.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ShoppingCartItemID | int |  | Primary key for ShoppingCartItem records. Identity / Auto increment column |
|  | ShoppingCartID | nvarchar(50) |  | Shopping cart identification number. |
|  | Quantity | int |  | Product quantity ordered. Default: 1 |
|  | ProductID | int |  | Product ordered. Foreign key to Product.ProductID. |
|  | DateCreated | datetime |  | Date the time the record was created. Default: getdate() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Sales.ShoppingCartItem.ProductID = Production.Product.ProductID | FK\_ShoppingCartItem\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
| Unique keys | |  | |
|  | Columns | Name / Description | |
|  | ShoppingCartItemID | PK\_ShoppingCartItem\_ShoppingCartItemID Primary key (clustered) constraint | |

Uses

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Name |
| Sales.ShoppingCartItem |  |  |  |
| Production.Product |  |  |  |

##### 9.1.17. Table: Sales.SpecialOffer

Sale discounts lookup table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | SpecialOfferID | int |  | Primary key for SpecialOffer records. Identity / Auto increment column |
|  | Description | nvarchar(255) |  | Discount description. |
|  | DiscountPct | smallmoney |  | Discount precentage. Default: 0.00 |
|  | Type | nvarchar(50) |  | Discount type category. |
|  | Category | nvarchar(50) |  | Group the discount applies to such as Reseller or Customer. |
|  | StartDate | datetime |  | Discount start date. |
|  | EndDate | datetime |  | Discount end date. |
|  | MinQty | int |  | Minimum discount percent allowed. Default: 0 |
|  | MaxQty | int |  | Maximum discount percent allowed. |
|  | Name | Data type | N | Description / Attributes |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.SpecialOfferProduct | Sales.SpecialOffer.SpecialOfferID =  Sales.SpecialOfferProduct.SpecialOffer ID | FK\_SpecialOfferProduct\_SpecialOffer\_SpecialOfferID  Foreign key constraint referencing SpecialOffer.SpecialOfferID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | SpecialOfferID | PK\_SpecialOffer\_SpecialOfferID Primary key (clustered) constraint |
|  | rowguid | AK\_SpecialOffer\_rowguid  Unique nonclustered index. Used to support replication samples. |

Used by

|  |  |
| --- | --- |
|  | Name |
| Sales.SpecialOffer |  |
| Sales.SpecialOfferProduct |  |

##### 9.1.18. Table: Sales.SpecialOfferProduct

Cross-reference table mapping products to special offer discounts.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | SpecialOfferID | int |  | Primary key for SpecialOfferProduct records. |
|  | ProductID | int |  | Product identification number. Foreign key to Product.ProductID. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Production.Product | Sales.SpecialOfferProduct.ProductID = Production.Product.ProductID | FK\_SpecialOfferProduct\_Product\_ProductID  Foreign key constraint referencing Product.ProductID. |
|  | Sales.SpecialOffer | Sales.SpecialOfferProduct.SpecialOffer ID = Sales.SpecialOffer.SpecialOfferID | FK\_SpecialOfferProduct\_SpecialOffer\_SpecialOfferID  Foreign key constraint referencing SpecialOffer.SpecialOfferID. |

Linked from

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Sales.SalesOrderDetail | Sales.SpecialOfferProduct.SpecialOffer  ID =  Sales.SalesOrderDetail.SpecialOfferID,  Sales.SpecialOfferProduct.ProductID =  Sales.SalesOrderDetail.ProductID | FK\_SalesOrderDetail\_SpecialOfferProduct\_SpecialOfferIDProductID  Foreign key constraint referencing  SpecialOfferProduct.SpecialOfferIDProductID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | SpecialOfferID, ProductID | PK\_SpecialOfferProduct\_SpecialOfferID\_ProductID Primary key (clustered) constraint |
|  | rowguid | AK\_SpecialOfferProduct\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Sales.SpecialOfferProduct |  |  |
| Production.Product |  |  |
| Sales.SpecialOffer |  |  |

Used by

|  |  |  |
| --- | --- | --- |
|  |  | Name |
| Sales.SpecialOfferProduct |  |  |
| Sales.SalesOrderDetail |  |  |

##### 9.1.19. Table: Sales.Store

Customers (resellers) of Adventure Works products.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  | Primary key. Foreign key to Customer.BusinessEntityID. |
|  | Name | nvarchar(50) |  | Name of the store. |
|  | SalesPersonID | int |  | ID of the sales person assigned to the customer. Foreign key to SalesPerson.BusinessEntityID. |
|  | Demographics | xml |  | Demographic informationg about the store such as the number of employees, annual sales and store type. |
|  |  |  |  | ROWGUIDCOL number uniquely identifying the record. Used to support a |
|  | rowguid | uniqueidentifier |  | merge replication sample. Default: newid() |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Links to

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Join | Title / Name / Description |
|  | Person.BusinessEntity | Sales.Store.BusinessEntityID =  Person.BusinessEntity.BusinessEntityID | FK\_Store\_BusinessEntity\_BusinessEntityID  Foreign key constraint referencing BusinessEntity.BusinessEntityID |
|  | Table | Join | Title / Name / Description |
|  | Sales.SalesPerson | Sales.Store.SalesPersonID =  Sales.SalesPerson.BusinessEntityID | FK\_Store\_SalesPerson\_SalesPersonID  Foreign key constraint referencing SalesPerson.SalesPersonID |
| Linked from | |  |  |
|  | Table | Join | Title / Name / Description |
|  | Sales.Customer | Sales.Store.BusinessEntityID = Sales.Customer.StoreID | FK\_Customer\_Store\_StoreID  Foreign key constraint referencing Store.BusinessEntityID. |

Unique keys

|  |  |  |
| --- | --- | --- |
|  | Columns | Name / Description |
|  | BusinessEntityID | PK\_Store\_BusinessEntityID  Primary key (clustered) constraint |
|  | rowguid | AK\_Store\_rowguid  Unique nonclustered index. Used to support replication samples. |

Uses

|  |  |
| --- | --- |
|  | Name |
| Sales.Store |  |
| Person.BusinessEntity |  |
| Sales.SalesPerson |  |

Used by

|  |  |
| --- | --- |
|  | Name |
| Sales.Store |  |
| Sales.Customer |  |

### 9.2. Views

##### 9.2.1. View: Sales.vIndividualCustomer

Individual customers (names and addresses) that purchase Adventure Works Cycles products online.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | Title | nvarchar(8) |  |  |
|  | FirstName | nvarchar(50) |  |  |
|  | MiddleName | nvarchar(50) |  |  |
|  | LastName | nvarchar(50) |  |  |
|  | Suffix | nvarchar(10) |  |  |
|  | PhoneNumber | nvarchar(25) |  |  |
|  | PhoneNumberType | nvarchar(50) |  |  |
|  | EmailAddress | nvarchar(50) |  |  |
|  | EmailPromotion | int |  |  |
|  | AddressType | nvarchar(50) |  |  |

Description / Attributes

N

Data type

Name

nvarchar(60)

AddressLine1



nvarchar(60)

AddressLine2

nvarchar(30)

City

nvarchar(50)

StateProvinceName

nvarchar(15)

PostalCode

nvarchar(50)

CountryRegionName



xml

Demographics

##### 9.2.2. View: Sales.vPersonDemographics

Displays the content from each element in the xml column Demographics for each customer in the Person.Person table.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | TotalPurchaseYTD | money |  |  |
|  | DateFirstPurchase | datetime |  |  |
|  | BirthDate | datetime |  |  |
|  | MaritalStatus | nvarchar(1) |  |  |
|  | YearlyIncome | nvarchar(30) |  |  |
|  | Gender | nvarchar(1) |  |  |
|  | TotalChildren | int |  |  |
|  | NumberChildrenAtHome | int |  |  |
|  | Education | nvarchar(30) |  |  |
|  | Occupation | nvarchar(30) |  |  |
|  | HomeOwnerFlag | bit |  |  |
|  | NumberCarsOwned | int |  |  |

##### 9.2.3. View: Sales.vSalesPerson

Sales representiatives (names and addresses) and their sales-related information.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | Title | nvarchar(8) |  |  |
|  | FirstName | nvarchar(50) |  |  |
|  | MiddleName | nvarchar(50) |  |  |
|  | LastName | nvarchar(50) |  |  |
|  | Suffix | nvarchar(10) |  |  |
|  | JobTitle | nvarchar(50) |  |  |
|  | PhoneNumber | nvarchar(25) |  |  |
|  | Name | Data type | N | Description / Attributes |
|  | PhoneNumberType | nvarchar(50) |  |  |
|  | EmailAddress | nvarchar(50) |  |  |
|  | EmailPromotion | int |  |  |
|  | AddressLine1 | nvarchar(60) |  |  |
|  | AddressLine2 | nvarchar(60) |  |  |
|  | City | nvarchar(30) |  |  |
|  | StateProvinceName | nvarchar(50) |  |  |
|  | PostalCode | nvarchar(15) |  |  |
|  | CountryRegionName | nvarchar(50) |  |  |
|  | TerritoryName | nvarchar(50) |  |  |
|  | TerritoryGroup | nvarchar(50) |  |  |
|  | SalesQuota | money |  |  |
|  | SalesYTD | money |  |  |
|  | SalesLastYear | money |  |  |

##### 9.2.4. View: Sales.vSalesPersonSalesByFiscalYears

Uses PIVOT to return aggregated sales information for each sales representative.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | SalesPersonID | int |  |  |
|  | FullName | nvarchar(152) |  |  |
|  | JobTitle | nvarchar(50) |  |  |
|  | SalesTerritory | nvarchar(50) |  |  |
|  | 2002 | money |  |  |
|  | 2003 | money |  |  |
|  | 2004 | money |  |  |

##### 9.2.5. View: Sales.vStoreWithAddresses

Stores (including store addresses) that sell Adventure Works Cycles products to consumers.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | Name | nvarchar(50) |  |  |
|  | AddressType | nvarchar(50) |  |  |
|  | AddressLine1 | nvarchar(60) |  |  |
|  | AddressLine2 | nvarchar(60) |  |  |
|  | City | nvarchar(30) |  |  |
|  | StateProvinceName | nvarchar(50) |  |  |
|  | Name | Data type | N | Description / Attributes |
|  | PostalCode | nvarchar(15) |  |  |
|  | CountryRegionName | nvarchar(50) |  |  |

##### 9.2.6. View: Sales.vStoreWithContacts

Stores (including store contacts) that sell Adventure Works Cycles products to consumers.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | Name | nvarchar(50) |  |  |
|  | ContactType | nvarchar(50) |  |  |
|  | Title | nvarchar(8) |  |  |
|  | FirstName | nvarchar(50) |  |  |
|  | MiddleName | nvarchar(50) |  |  |
|  | LastName | nvarchar(50) |  |  |
|  | Suffix | nvarchar(10) |  |  |
|  | PhoneNumber | nvarchar(25) |  |  |
|  | PhoneNumberType | nvarchar(50) |  |  |
|  | EmailAddress | nvarchar(50) |  |  |
|  | EmailPromotion | int |  |  |

##### 9.2.7. View: Sales.vStoreWithDemographics

Stores (including demographics) that sell Adventure Works Cycles products to consumers.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | BusinessEntityID | int |  |  |
|  | Name | nvarchar(50) |  |  |
|  | AnnualSales | money |  |  |
|  | AnnualRevenue | money |  |  |
|  | BankName | nvarchar(50) |  |  |
|  | BusinessType | nvarchar(5) |  |  |
|  | YearOpened | int |  |  |
|  | Specialty | nvarchar(50) |  |  |
|  | SquareFeet | int |  |  |
|  | Brands | nvarchar(30) |  |  |
|  | Internet | nvarchar(30) |  |  |
|  | NumberEmployees | int |  |  |

### 9.3. Functions

##### 9.3.1. Function: dbo.ufnGetAccountingEndDate

Scalar function used in the uSalesOrderHeader trigger to set the starting account date. Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | Returns | datetime |  |

##### 9.3.2. Function: dbo.ufnGetAccountingStartDate

Scalar function used in the uSalesOrderHeader trigger to set the ending account date. Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | Returns | datetime |  |

##### 9.3.3. Function: dbo.ufnGetSalesOrderStatusText

Scalar function returning the text representation of the Status column in the SalesOrderHeader table.

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | Returns | nvarchar(15) |  |
|  | Status | tinyint | Input parameter for the scalar function ufnGetSalesOrderStatusText. Enter a valid integer. |

##### 9.3.4. Function: dbo.ufnLeadingZeros

Scalar function used by the Sales.Customer table to help set the account number.

Input/Output

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data type | Description |
|  | Returns | varchar(8) |  |
|  | Value | int | Input parameter for the scalar function ufnLeadingZeros. Enter a valid integer. |

# 10. Admin



### 10.1. Tables

##### 10.1.1. Table: dbo.AWBuildVersion

Current version number of the AdventureWorks 2012 sample database.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | SystemInformationID | tinyint |  | Primary key for AWBuildVersion records. Identity / Auto increment column |
|  | Database Version | nvarchar(25) |  | Version number of the database in 9.yy.mm.dd.00 format. |
|  | VersionDate | datetime |  | Date and time the record was last updated. |
|  | ModifiedDate | datetime |  | Date and time the record was last updated. Default: getdate() |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | SystemInformationID | PK\_AWBuildVersion\_SystemInformationID Primary key (clustered) constraint |  |

#### 10.1.2. Table: dbo.DatabaseLog

Audit table tracking all DDL changes made to the AdventureWorks database. Data is captured by the database trigger ddlDatabaseTriggerLog.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | DatabaseLogID | int |  | Primary key for DatabaseLog records. Identity / Auto increment column |
|  | PostTime | datetime |  | The date and time the DDL change occurred. |
|  | DatabaseUser | nvarchar(128) |  | The user who implemented the DDL change. |
|  | Event | nvarchar(128) |  | The type of DDL statement that was executed. |
|  | Schema | nvarchar(128) |  | The schema to which the changed object belongs. |
|  | Object | nvarchar(128) |  | The object that was changed by the DDL statment. |
|  | TSQL | nvarchar(MAX) |  | The exact Transact-SQL statement that was executed. |
|  | XmlEvent | xml |  | The raw XML data generated by database trigger. |

Unique keys

|  |  |  |  |
| --- | --- | --- | --- |
|  | Columns |  | Name / Description |
|  | DatabaseLogID | PK\_DatabaseLog\_DatabaseLogID  Primary key (nonclustered) constraint |  |

#### 10.1.3. Table: dbo.ErrorLog

Audit table tracking errors in the the AdventureWorks database that are caught by the CATCH block of a TRY...CATCH construct. Data is inserted by stored procedure dbo.uspLogError when it is executed from inside the CATCH block of a TRY...CATCH construct.

Columns

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Data type | N | Description / Attributes |
|  | ErrorLogID | int |  | Primary key for ErrorLog records.  Identity / Auto increment column |
|  | ErrorTime | datetime |  | The date and time at which the error occurred. Default: getdate() |
|  | UserName | nvarchar(128) |  | The user who executed the batch in which the error occurred. |
|  | ErrorNumber | int |  | The error number of the error that occurred. |
|  | ErrorSeverity | int |  | The severity of the error that occurred. |
|  | ErrorState | int |  | The state number of the error that occurred. |
|  | ErrorProcedure | nvarchar(126) |  | The name of the stored procedure or trigger where the error occurred. |
|  | ErrorLine | int |  | The line number at which the error occurred. |
|  | ErrorMessage | nvarchar(4000) |  | The message text of the error that occurred. |

Unique keys

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columns |  |  | Name / Description |
|  | ErrorLogID | PK\_ErrorLog\_ErrorLogID  Primary key (clustered) constraint |  |  |

## 10.2. Procedures

#### 10.2.1. Procedure: dbo.uspLogError

Logs error information in the ErrorLog table about the error that caused execution to jump to the CATCH block of a TRY...CATCH construct. Should be executed from within the scope of a CATCH block otherwise it will return without inserting error information.

Input/Output

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name |  | Data type | Description |
|  |  |  |  | Output parameter for the stored procedure uspLogError. Contains the |
|  | ErrorLogID | int |  | ErrorLogID value corresponding to the row inserted by uspLogError in the ErrorLog table. |

#### 10.2.2. Procedure: dbo.uspPrintError

Prints error information about the error that caused execution to jump to the CATCH block of a TRY...CATCH construct. Should be executed from within the scope of a CATCH block otherwise it will return without printing any error information.