

Dataedo

# AdventureWorks

## Data Dictionary

2017-01-23



## Table of Contents
















1. AdventureWorks .....	7
2. Business Entities .....	8
3. People .....	9
3.1. Tables .....	9
3.1.1. Table: Person.Address .....	9
3.1.2. Table: Person.AddressType .....	10
3.1.3. Table: Person.BusinessEntity .....	10
3.1.4. Table: Person.BusinessEntityAddress .....	11
3.1.5. Table: Person.BusinessEntityContact .....	12
3.1.6. Table: Person.ContactType .....	12
3.1.7. Table: Person.CountryRegion .....	13
3.1.8. Table: Person.EmailAddress .....	13
3.1.9. Table: Person.Password .....	14
3.1.10. Table: Person.Person .....	14
3.1.11. Table: Person.PersonPhone .....	16
3.1.12. Table: Person.PhoneNumberType .....	16
3.1.13. Table: Person.StateProvince .....	17
3.2. Views .....	18
3.2.1. View: Person.vAdditionalContactInfo .....	18
3.2.2. View: Person.vStateProvinceCountryRegion .....	18
4. Human Resources .....	19
4.1. Tables .....	19
4.1.1. Table: HumanResources.Department .....	19
4.1.2. Table: HumanResources.Employee .....	20
4.1.3. Table: HumanResources.EmployeeDepartmentHistory .....	21
4.1.4. Table: HumanResources.EmployeePayHistory .....	22
4.1.5. Table: HumanResources.JobCandidate .....	22
4.1.6. Table: HumanResources.Shift .....	23
4.2. Views .....	23
4.2.1. View: HumanResources.vEmployee .....	23
4.2.2. View: HumanResources.vEmployeeDepartment .....	24
4.2.3. View: HumanResources.vEmployeeDepartmentHistory .....	24
4.2.4. View: HumanResources.vJobCandidate .....	25
4.2.5. View: HumanResources.vJobCandidateEducation .....	25
4.2.6. View: HumanResources.vJobCandidateEmployment .....	26
4.3. Procedures .....	26
4.3.1. Procedure: dbo.uspGetEmployeeManagers .....	26
4.3.2. Procedure: dbo.uspGetManagerEmployees .....	26
4.3.3. Procedure: dbo.uspSearchCandidateResumes .....	26
4.3.4. Procedure: HumanResources.uspUpdateEmployeeHireInfo .....	27
4.3.5. Procedure: HumanResources.uspUpdateEmployeeLogin .....	27
4.3.6. Procedure: HumanResources.uspUpdateEmployeePersonalInfo .....	27
4.4. Functions .....	28
4.4.1. Function: dbo.ufnGetContactInformation .....	28
5. Products .....	29

5.1. Tables .....	29
5.1.1. Table: Production.Culture .....	29
5.1.2. Table: Production.Document .....	30
5.1.3. Table: Production.Illustration .....	31
5.1.4. Table: Production.Product .....	31
5.1.5. Table: Production.ProductCategory .....	33
5.1.6. Table: Production.ProductDescription .....	34
5.1.7. Table: Production.ProductDocument .....	34
5.1.8. Table: Production.ProductModel .....	35
5.1.9. Table: Production.ProductModelIllustration .....	35
5.1.10. Table: Production.ProductModelProductDescriptionCulture .....	36
5.1.11. Table: Production.ProductPhoto .....	37
5.1.12. Table: Production.ProductProductPhoto .....	37
5.1.13. Table: Production.ProductReview .....	38
5.1.14. Table: Production.ProductSubcategory .....	38
5.1.15. Table: Production.UnitMeasure .....	39
5.2. Views .....	40
5.2.1. View: Production.vProductAndDescription .....	40
5.2.2. View: Production.vProductModelCatalogDescription .....	40
5.2.3. View: Production.vProductModelInstructions .....	41
5.3. Procedures .....	41
5.3.1. Procedure: dbo.uspGetBillOfMaterials .....	41
5.3.2. Procedure: dbo.uspGetWhereUsedProductID .....	41
5.4. Functions .....	42
5.4.1. Function: dbo.ufnGetDocumentStatusText .....	42
5.4.2. Function: dbo.ufnGetProductDealerPrice .....	42
5.4.3. Function: dbo.ufnGetProductListPrice .....	42
5.4.4. Function: dbo.ufnGetProductStandardCost .....	42
5.4.5. Function: dbo.ufnGetStock .....	43
6. Manufacturing .....	44
6.1. Tables .....	44
6.1.1. Table: Production.BillOfMaterials .....	44
6.1.2. Table: Production.ProductCostHistory .....	45
6.1.3. Table: Production.ProductListPriceHistory .....	46
6.1.4. Table: Production.ScrapReason .....	46
6.1.5. Table: Production.TransactionHistory .....	46
6.1.6. Table: Production.TransactionHistoryArchive .....	47
6.1.7. Table: Production.WorkOrder .....	48
6.1.8. Table: Production.WorkOrderRouting .....	49
7. Purchasing .....	50
7.1. Tables .....	50
7.1.1. Table: Purchasing.ProductVendor .....	50
7.1.2. Table: Purchasing.PurchaseOrderDetail .....	51
7.1.3. Table: Purchasing.PurchaseOrderHeader .....	52
7.1.4. Table: Purchasing.ShipMethod .....	53
7.1.5. Table: Purchasing.Vendor .....	54

7.2. Views .....	55
7.2.1. View: Purchasing.vVendorWithAddresses .....	55
7.2.2. View: Purchasing.vVendorWithContacts .....	55
7.3. Functions .....	55
7.3.1. Function: dbo.ufnGetPurchaseOrderStatusText .....	55
8. Inventory .....	57
8.1. Tables .....	57
8.1.1. Table: Production.Location .....	57
8.1.2. Table: Production.ProductInventory .....	58
9. Sales .....	59
9.1. Tables .....	59
9.1.1. Table: Sales.CountryRegionCurrency .....	59
9.1.2. Table: Sales.CreditCard .....	60
9.1.3. Table: Sales.Currency .....	60
9.1.4. Table: Sales.CurrencyRate .....	61
9.1.5. Table: Sales.Customer .....	61
9.1.6. Table: Sales.PersonCreditCard .....	62
9.1.7. Table: Sales.SalesOrderDetail .....	63
9.1.8. Table: Sales.SalesOrderHeader .....	64
9.1.9. Table: Sales.SalesOrderHeaderSalesReason .....	65
9.1.10. Table: Sales.SalesPerson .....	66
9.1.11. Table: Sales.SalesPersonQuotaHistory .....	67
9.1.12. Table: Sales.SalesReason .....	67
9.1.13. Table: Sales.SalesTaxRate .....	68
9.1.14. Table: Sales.SalesTerritory .....	69
9.1.15. Table: Sales.SalesTerritoryHistory .....	69
9.1.16. Table: Sales.ShoppingCartItem .....	70
9.1.17. Table: Sales.SpecialOffer .....	71
9.1.18. Table: Sales.SpecialOfferProduct .....	71
9.1.19. Table: Sales.Store .....	72
9.2. Views .....	73
9.2.1. View: Sales.vIndividualCustomer .....	73
9.2.2. View: Sales.vPersonDemographics .....	73
9.2.3. View: Sales.vSalesPerson .....	74
9.2.4. View: Sales.vSalesPersonSalesByFiscalYears .....	74
9.2.5. View: Sales.vStoreWithAddresses .....	75
9.2.6. View: Sales.vStoreWithContacts .....	75
9.2.7. View: Sales.vStoreWithDemographics .....	76
9.3. Functions .....	76
9.3.1. Function: dbo.ufnGetAccountingEndDate .....	76
9.3.2. Function: dbo.ufnGetAccountingStartDate .....	76
9.3.3. Function: dbo.ufnGetSalesOrderStatusText .....	76
9.3.4. Function: dbo.ufnLeadingZeros .....	77
10. Admin .....	78
10.1. Tables .....	78
10.1.1. Table: dbo.AWBuildVersion .....	78

10.1.2. Table: dbo.DatabaseLog .....	78
10.1.3. Table: dbo.ErrorLog .....	78
10.2. Procedures .....	79
10.2.1. Procedure: dbo.uspLogError .....	79
10.2.2. Procedure: dbo.uspPrintError .....	79

## 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

# 1. AdventureWorks

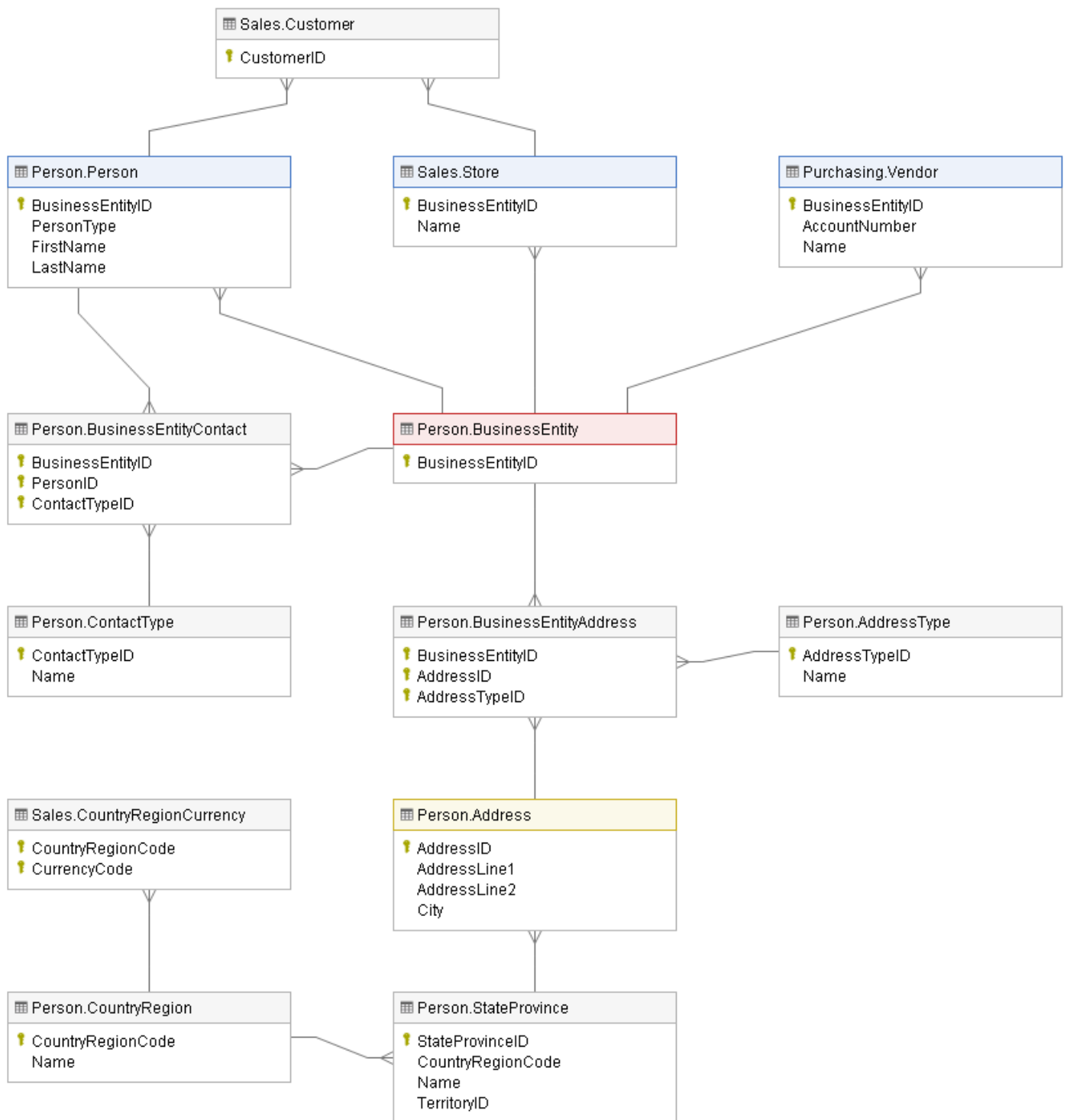
This is a sample Dataedo documentation - **AdventureWorks** - Microsoft SQL Server sample database.

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 \(CodePlex\)](#)
- [AdventureWorks for SQL Server 2012 \(CodePlex\)](#)
- [AdventureWorks for SQL Server 2008R2 \(CodePlex\)](#)

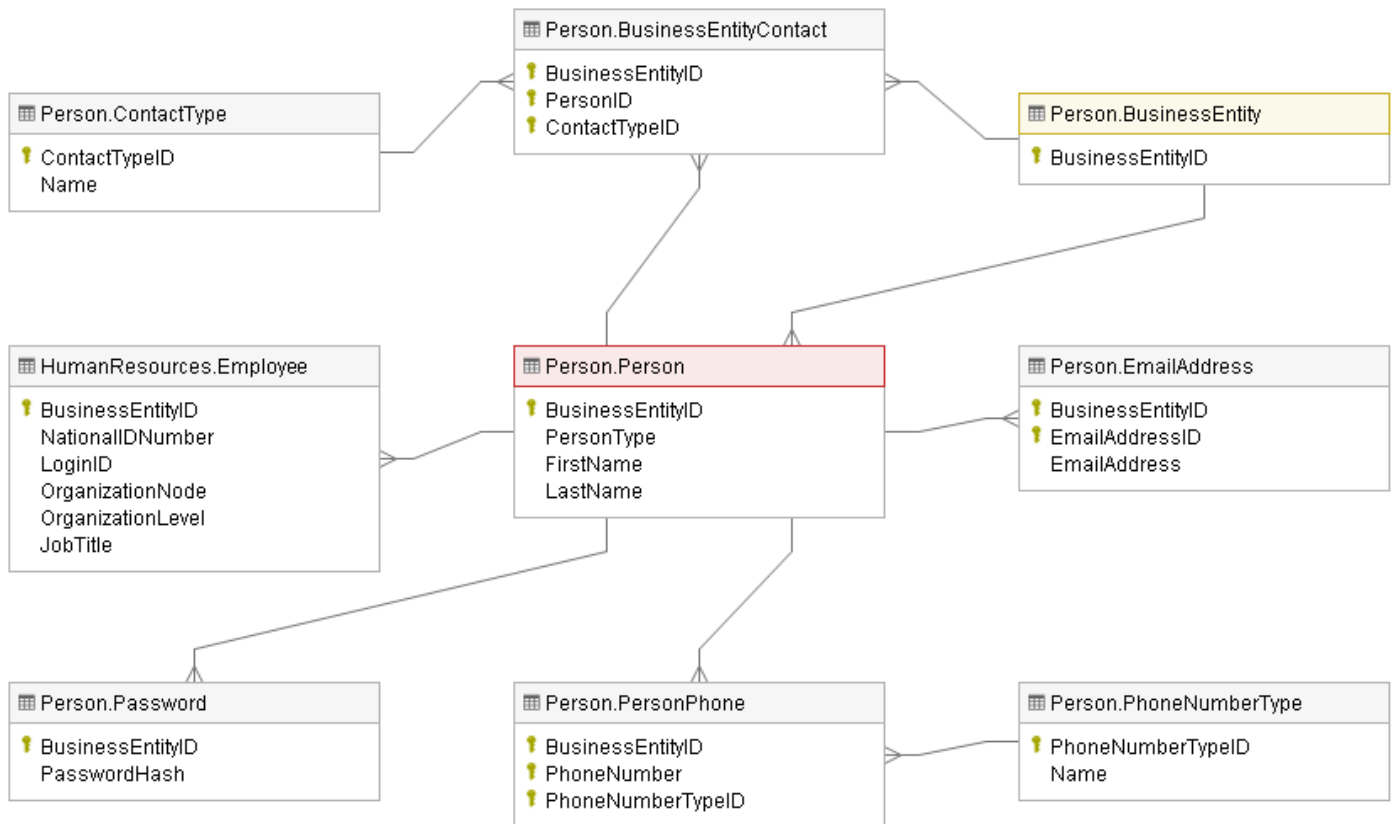
## 2. Business Entities



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

hgfhgkfh

Columns

	Name	Data type	Description
	AddressID	int	Primary key for Address records.
	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.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

Links to

Table	Join	Name / Description
Person.StateProvince	<b>Person.Address.StateProvinceID =</b> Person.StateProvince.StateProvinceID	FK_Address_StateProvince_StateProvinceID: Foreign key constraint referencing StateProvince.StateProvinceID.

Linked from

	Table	Join	Name / Description
←	Person.BusinessEntityAddress	<b>Person.Address.AddressID</b> = Person.BusinessEntityAddress.AddressID	FK_BusinessEntityAddress_Address_AddressID: Foreign key constraint referencing Address.AddressID.
←	Sales.SalesOrderHeader	<b>Person.Address.AddressID</b> = Sales.SalesOrderHeader.BillToAddressID	FK_SalesOrderHeader_Address_BillToAddressID: Foreign key constraint referencing Address.AddressID.
←	Sales.SalesOrderHeader	<b>Person.Address.AddressID</b> = Sales.SalesOrderHeader.ShipToAddressID	FK_SalesOrderHeader_Address_ShipToAddressID: Foreign key constraint referencing Address.AddressID.

Unique keys

	Name	Columns	Description
🔑	PK_Address_AddressID	AddressID	Primary key (clustered) constraint
🔑	AK_Address_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.
🔑	IX_Address_AddressLine1_AddressLine2_City_StateProvinceID_PostalCode	AddressLine1, AddressLine2, City, StateProvinceID, PostalCode	Nonclustered index.

### 3.1.2. Table: Person.AddressType

Types of addresses stored in the Address table.

Columns

	Name	Data type	Description
🔑	AddressTypeID	int	Primary key for AddressType records.
	Name	nvarchar(50)	Address type description. For example, Billing, Home, or Shipping.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

Linked from

	Table	Join	Name / Description
←	Person.BusinessEntityAddress	<b>Person.AddressType.AddressTypeID</b> = Person.BusinessEntityAddress.AddressTypeID	FK_BusinessEntityAddress_AddressType_AddressTypeID: Foreign key constraint referencing AddressType.AddressTypeID.


Unique keys

	Name	Columns	Description
🔑	PK_AddressType_AddressTypeID	AddressTypeID	Primary key (clustered) constraint
🔑	AK_AddressType_Name	Name	Unique nonclustered index.
🔑	AK_AddressType_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.






### 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	Description
	BusinessEntityID	int	Primary key for all customers, vendors, and employees.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

## Linked from

	Table	Join	Name / Description
	Person.BusinessEntityAddress	<b>Person.BusinessEntity</b> .BusinessEntityID = Person.BusinessEntityAddress.BusinessEntityID	FK_BusinessEntityAddress_BusinessEntity_BusinessEntityID: Foreign key constraint referencing BusinessEntity.BusinessEntityID.
	Person.BusinessEntityContact	<b>Person.BusinessEntity</b> .BusinessEntityID = Person.BusinessEntityContact.BusinessEntityID	FK_BusinessEntityContact_BusinessEntity_BusinessEntityID: Foreign key constraint referencing BusinessEntity.BusinessEntityID.
	Person.Person	<b>Person.BusinessEntity</b> .BusinessEntityID = Person.Person.BusinessEntityID	FK_Person_BusinessEntity_BusinessEntityID: Foreign key constraint referencing BusinessEntity.BusinessEntityID.
	Sales.Store	<b>Person.BusinessEntity</b> .BusinessEntityID = Sales.Store.BusinessEntityID	FK_Store_BusinessEntity_BusinessEntityID: Foreign key constraint referencing BusinessEntity.BusinessEntityID
	Purchasing.Vendor	<b>Person.BusinessEntity</b> .BusinessEntityID = Purchasing.Vendor.BusinessEntityID	FK_Vendor_BusinessEntity_BusinessEntityID: Foreign key constraint referencing BusinessEntity.BusinessEntityID




## Unique keys

	Name	Columns	Description
	PK_BusinessEntity_BusinessEntityID	BusinessEntityID	Primary key (clustered) constraint
	AK_BusinessEntity_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 3.1.4. Table: Person.BusinessEntityAddress

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

## Columns

	Name	Data type	Description
	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.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

## Links to





	Table	Join	Name / Description
	Person.Address	<b>Person.BusinessEntityAddress</b> .AddressID = Person.Address.AddressID	FK_BusinessEntityAddress_Address_AddressID: Foreign key constraint referencing Address.AddressID.
	Person.AddressType	<b>Person.BusinessEntityAddress</b> .AddressTypeID = Person.AddressType.AddressTypeID	FK_BusinessEntityAddress_AddressType_AddressTypeID: Foreign key constraint referencing AddressType.AddressTypeID.

Table	Join	Name / Description
➤ Person.BusinessEntity	<b>Person.BusinessEntityAddress</b> .BusinessEntityID = Person.BusinessEntity.BusinessEntityID	FK_BusinessEntityAddress_BusinessEntity_BusinessEntityID: Foreign key constraint referencing BusinessEntity.BusinessEntityID.




## Unique keys

Name	Columns	Description
 PK_BusinessEntityAddress_BusinessEntityID_AddressID_AddressTypeID	BusinessEntityID, AddressTypeID, AddressID	Primary key (clustered) constraint
 AK_BusinessEntityAddress_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 3.1.5. Table: Person.BusinessEntityContact

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



## Columns

Name	Data type	Description
 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.
rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
ModifiedDate	datetime	Date and time the record was last updated.

## Links to

Table	Join	Name / Description
➤ Person.BusinessEntity	<b>Person.BusinessEntityContact</b> .BusinessEntityID = Person.BusinessEntity.BusinessEntityID	FK_BusinessEntityContact_BusinessEntity_BusinessEntityID: Foreign key constraint referencing BusinessEntity.BusinessEntityID.
➤ Person.ContactType	<b>Person.BusinessEntityContact</b> .ContactTypeID = Person.ContactType.ContactTypeID	FK_BusinessEntityContact_ContactType_ContactTypeID: Foreign key constraint referencing ContactType.ContactTypeID.
➤ Person.Person	<b>Person.BusinessEntityContact</b> .PersonID = Person.Person.BusinessEntityID	FK_BusinessEntityContact_Person_PersonID: Foreign key constraint referencing Person.BusinessEntityID.


## Unique keys

Name	Columns	Description
 PK_BusinessEntityContact_BusinessEntityID_PersonID_ContactTypeID	BusinessEntityID, PersonID, ContactTypeID	Primary key (clustered) constraint
 AK_BusinessEntityContact_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 3.1.6. Table: Person.ContactType

Lookup table containing the types of business entity contacts.

## Columns

Name	Data type	Description
 ContactTypeID	int	Primary key for ContactType records.
Name	nvarchar(50)	Contact type description.
ModifiedDate	datetime	Date and time the record was last updated.

Linked from

Table		Join	Name / Description
←	Person.BusinessEntityContact	<b>Person.ContactType</b> .ContactTypeID = Person.BusinessEntityContact.ContactTypeID	FK_BusinessEntityContact_ContactType_ContactTypeID: Foreign key constraint referencing ContactType.ContactTypeID.

Unique keys

Name		Columns	Description
🔑	PK_ContactType_ContactTypeID	ContactTypeID	Primary key (clustered) constraint
🔑	AK_ContactType_Name	Name	Unique nonclustered index.

### 3.1.7. Table: Person.CountryRegion

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

Columns

Name		Data type	Description
🔑	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.

Linked from

Table		Join	Name / Description
←	Sales.CountryRegionCurrency	<b>Person.CountryRegion</b> .CountryRegionCode = Sales.CountryRegionCurrency.CountryRegionCode	FK_CountryRegionCurrency_CountryRegion_CountryRegionCode: Foreign key constraint referencing CountryRegion.CountryRegionCode.
←	Sales.SalesTerritory	<b>Person.CountryRegion</b> .CountryRegionCode = Sales.SalesTerritory.CountryRegionCode	FK_SalesTerritory_CountryRegion_CountryRegionCode: Foreign key constraint referencing CountryRegion.CountryRegionCode.
←	Person.StateProvince	<b>Person.CountryRegion</b> .CountryRegionCode = Person.StateProvince.CountryRegionCode	FK_StateProvince_CountryRegion_CountryRegionCode: Foreign key constraint referencing CountryRegion.CountryRegionCode.

Unique keys

Name		Columns	Description
🔑	PK_CountryRegion_CountryRegionCode	CountryRegionCode	Primary key (clustered) constraint
🔑	AK_CountryRegion_Name	Name	Unique nonclustered index.

### 3.1.8. Table: Person.EmailAddress

Where to send a person email.

Columns

Name		Data type	Description
🔑	BusinessEntityID	int	Primary key. Person associated with this email address. Foreign key to Person.BusinessEntityID
🔑	EmailAddressID	int	Primary key. ID of this email address.

	Name	Data type	Description
	EmailAddress	nvarchar(50)	E-mail address for the person.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

#### Links to

	Table	Join	Name / Description
➤	Person.Person	<b>Person.EmailAddress.BusinessEntityID</b> = Person.Person.BusinessEntityID	FK_EmailAddress_Person_BusinessEntityID: Foreign key constraint referencing Person.BusinessEntityID.

#### Unique keys

	Name	Columns	Description
🔑	PK_EmailAddress_BusinessEntityID_EmailAddressID	BusinessEntityID, EmailAddressID	Primary key (clustered) constraint

### 3.1.9. Table: Person.Password

#### One way hashed authentication information

#### Columns

	Name	Data type	Description
🔑	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.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

#### Links to

	Table	Join	Name / Description
➤	Person.Person	<b>Person.Password.BusinessEntityID</b> = Person.Person.BusinessEntityID	FK_Password_Person_BusinessEntityID: Foreign key constraint referencing Person.BusinessEntityID.

#### Unique keys

	Name	Columns	Description
🔑	PK_Password_BusinessEntityID	BusinessEntityID	Primary key (clustered) constraint

### 3.1.10. Table: Person.Person

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

#### Columns

	Name	Data type	Description
🔑	BusinessEntityID	int	Primary key for Person records.
	PersonType	nchar(2)	Primary type of person: SC = Store Contact, IN = Individual (retail) customer, SP = Sales person, EM = Employee (non-sales), VC = Vendor contact, GC = General contact

Name		Data type	Description
	NameStyle	bit	0 = The data in FirstName and LastName are stored in western style (first name, last name) order. 1 = Eastern style (last name, first name) order.
	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.
	EmailPromotion	int	0 = Contact does not wish to receive e-mail promotions, 1 = Contact does wish to receive e-mail promotions from AdventureWorks, 2 = Contact does wish to receive e-mail promotions from AdventureWorks and selected partners.
	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.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

## Links to

Table	Join	Name / Description
➤ Person.BusinessEntity	<b>Person.Person.BusinessEntityID = Person.BusinessEntity.BusinessEntityID</b>	FK_Person_BusinessEntity_BusinessEntityID: Foreign key constraint referencing BusinessEntity.BusinessEntityID.


## Linked from

Table	Join	Name / Description
⬅ Person.BusinessEntityContact	<b>Person.Person.BusinessEntityID = Person.BusinessEntityContact.PersonID</b>	FK_BusinessEntityContact_Person_PersonID: Foreign key constraint referencing Person.BusinessEntityID.
⬅ Sales.Customer	<b>Person.Person.BusinessEntityID = Sales.Customer.PersonID</b>	FK_Customer_Person_PersonID: Foreign key constraint referencing Person.BusinessEntityID.
⬅ Person.EmailAddress	<b>Person.Person.BusinessEntityID = Person.EmailAddress.BusinessEntityID</b>	FK_EmailAddress_Person_BusinessEntityID: Foreign key constraint referencing Person.BusinessEntityID.
⬅ HumanResources.Employee	<b>Person.Person.BusinessEntityID = HumanResources.Employee.BusinessEntityID</b>	FK_Employee_Person_BusinessEntityID: Foreign key constraint referencing Person.BusinessEntityID.
⬅ Person.Password	<b>Person.Person.BusinessEntityID = Person.Password.BusinessEntityID</b>	FK_Password_Person_BusinessEntityID: Foreign key constraint referencing Person.BusinessEntityID.
⬅ Sales.PersonCreditCard	<b>Person.Person.BusinessEntityID = Sales.PersonCreditCard.BusinessEntityID</b>	FK_PersonCreditCard_Person_BusinessEntityID: Foreign key constraint referencing Person.BusinessEntityID.
⬅ Person.PersonPhone	<b>Person.Person.BusinessEntityID = Person.PersonPhone.BusinessEntityID</b>	FK_PersonPhone_Person_BusinessEntityID: Foreign key constraint referencing Person.BusinessEntityID.

## Unique keys

Name	Columns	Description
🔑 PK_Person_BusinessEntityID	BusinessEntityID	Primary key (clustered) constraint
🔑 AK_Person_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.




## Triggers

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



### 3.1.11. Table: Person.PersonPhone

Telephone number and type of a person.


#### Columns

Name		Data type	Description
	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.

#### Links to

Table	Join	Name / Description
 Person.Person	<b>Person.PersonPhone</b> .BusinessEntityID = Person.Person.BusinessEntityID	FK_PersonPhone_Person_BusinessEntityID: Foreign key constraint referencing Person.BusinessEntityID.
 Person.PhoneNumberType	<b>Person.PersonPhone</b> .PhoneNumberTypeID = Person.PhoneNumberType.PhoneNumberTypeID	FK_PersonPhone_PhoneNumberType_PhoneNumberTypeID: Foreign key constraint referencing PhoneNumberType.PhoneNumberTypeID.


#### Unique keys

Name		Columns	Description
	PK_PersonPhone_BusinessEntityID_PhoneNumber_PhoneNumberTypeID	BusinessEntityID, PhoneNumber, PhoneNumberTypeID	Primary key (clustered) constraint


### 3.1.12. Table: Person.PhoneNumberType

Type of phone number of a person.

#### Columns


Name		Data type	Description
	PhoneNumberTypeID	int	Primary key for telephone number type records.
	Name	nvarchar(50)	Name of the telephone number type
	ModifiedDate	datetime	Date and time the record was last updated.

#### Linked from

Table	Join	Name / Description
 Person.PersonPhone	<b>Person.PhoneNumberType</b> .PhoneNumberTypeID = Person.PersonPhone.PhoneNumberTypeID	FK_PersonPhone_PhoneNumberType_PhoneNumberTypeID: Foreign key constraint referencing PhoneNumberType.PhoneNumberTypeID.




## Unique keys

	Name	Columns	Description
	PK_PhoneNumberType_PhoneNumberTypeID	PhoneNumberTypeID	Primary key (clustered) constraint



### 3.1.13. Table: Person.StateProvince

#### State and province lookup table.



#### Columns

	Name	Data type	Description
	StateProvinceID	int	Primary key for StateProvince records.
	StateProvinceCode	nchar(3)	ISO standard state or province code.
	CountryRegionCode	nvarchar(3)	ISO standard country or region code. Foreign key to CountryRegion.CountryRegionCode.
	IsOnlyStateProvinceFlag	bit	0 = StateProvinceCode exists. 1 = StateProvinceCode unavailable, using CountryRegionCode.
	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.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.





#### Links to

	Table	Join	Name / Description
	Person.CountryRegion	<b>Person.StateProvince</b> .CountryRegionCode = Person.CountryRegion.CountryRegionCode	FK_StateProvince_CountryRegion_CountryRegionCode: Foreign key constraint referencing CountryRegion.CountryRegionCode.
	Sales.SalesTerritory	<b>Person.StateProvince</b> .TerritoryID = Sales.SalesTerritory.TerritoryID	FK_StateProvince_SalesTerritory_TerritoryID: Foreign key constraint referencing SalesTerritory.TerritoryID.

#### Linked from

	Table	Join	Name / Description
	Person.Address	<b>Person.StateProvince</b> .StateProvinceID = Person.Address.StateProvinceID	FK_Address_StateProvince_StateProvinceID: Foreign key constraint referencing StateProvince.StateProvinceID.
	Sales.SalesTaxRate	<b>Person.StateProvince</b> .StateProvinceID = Sales.SalesTaxRate.StateProvinceID	FK_SalesTaxRate_StateProvince_StateProvinceID: Foreign key constraint referencing StateProvince.StateProvinceID.

## Unique keys

	Name	Columns	Description
	PK_StateProvince_StateProvinceID	StateProvinceID	Primary key (clustered) constraint
	AK_StateProvince_Name	Name	Unique nonclustered index.
	AK_StateProvince_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.
	AK_StateProvince_StateProvinceCode_CountryRegionCode	StateProvinceCode, CountryRegionCode	Unique nonclustered index.

## 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	Description
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)	
EEmailAddress		nvarchar(128)	
EEmailSpecialInstructions		nvarchar(MAX)	
EEmailTelephoneNumber		nvarchar(50)	
rowguid		uniqueidentifier	
ModifiedDate		datetime	

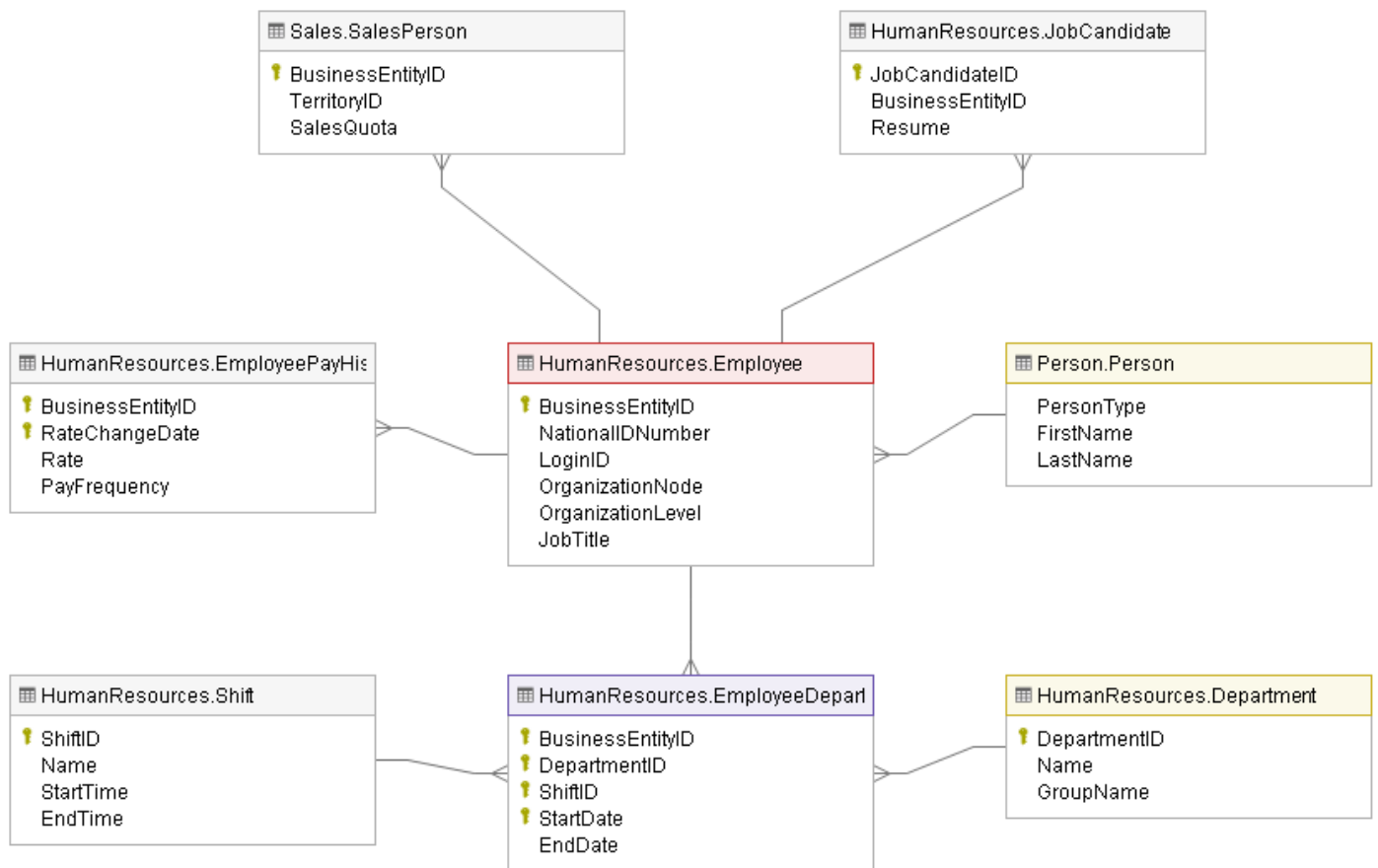
### 3.2.2. View: Person.vStateProvinceCountryRegion

Joins StateProvince table with CountryRegion table.

#### Columns

Name		Data type	Description
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	Description
🔑	DepartmentID	smallint	Primary key for Department records.
	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.

Linked from

	Table	Join	Name / Description
➔	HumanResources.EmployeeDepartmentHistory	<b>HumanResources.Department.DepartmentID</b> = HumanResources.EmployeeDepartmentHistory.DepartmentID	FK_EmployeeDepartmentHistory_Department_DepartmentID: Foreign key constraint referencing Department.DepartmentID.

Unique keys


	Name	Columns	Description
🔑	PK_Department_DepartmentID	DepartmentID	Primary key (clustered) constraint

Name		Columns	Description
	AK_Department_Name	Name	Unique nonclustered index.


#### 4.1.2. Table: HumanResources.Employee

Employee information such as salary, department, and title.

##### Columns

Name		Data type	Description
	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.
	OrganizationNode	hierarchyid	Where the employee is located in corporate hierarchy.
	OrganizationLevel	smallint	The depth of the employee in the corporate hierarchy.
	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.
	SalariedFlag	bit	Job classification. 0 = Hourly, not exempt from collective bargaining. 1 = Salaried, exempt from collective bargaining.
	VacationHours	smallint	Number of available vacation hours.
	SickLeaveHours	smallint	Number of available sick leave hours.
	CurrentFlag	bit	0 = Inactive, 1 = Active
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

##### Links to

Table	Join	Name / Description
 Person.Person	<b>HumanResources.Employee</b> .BusinessEntityID = Person.Person.BusinessEntityID	FK_Employee_Person_BusinessEntityID: Foreign key constraint referencing Person.BusinessEntityID.

##### Linked from

Table	Join	Name / Description
 Production.Document	<b>HumanResources.Employee</b> .BusinessEntityID = Production.Document.Owner	FK_Document_Employee_Owner: Foreign key constraint referencing Employee.BusinessEntityID.
 HumanResources.EmployeeDepartmentHistory	<b>HumanResources.Employee</b> .BusinessEntityID = HumanResources.EmployeeDepartmentHistory.BusinessEntityID	FK_EmployeeDepartmentHistory_Employee_BusinessEntityID: Foreign key constraint referencing Employee.EmployeeID.
 HumanResources.EmployeePayHistory	<b>HumanResources.Employee</b> .BusinessEntityID = HumanResources.EmployeePayHistory.BusinessEntityID	FK_EmployeePayHistory_Employee_BusinessEntityID: Foreign key constraint referencing Employee.EmployeeID.

Table		Join	Name / Description
↖	HumanResources.JobCandidate	<b>HumanResources.Employee</b> .BusinessEntityID = HumanResources.JobCandidate.BusinessEntityID	FK_JobCandidate_Employee_BusinessEntityID: Foreign key constraint referencing Employee.EmployeeID.
↖	Purchasing.PurchaseOrderHeader	<b>HumanResources.Employee</b> .BusinessEntityID = Purchasing.PurchaseOrderHeader.EmployeeID	FK_PurchaseOrderHeader_Employee_EmployeeID: Foreign key constraint referencing Employee.EmployeeID.
↖	Sales.SalesPerson	<b>HumanResources.Employee</b> .BusinessEntityID = Sales.SalesPerson.BusinessEntityID	FK_SalesPerson_Employee_BusinessEntityID: Foreign key constraint referencing Employee.EmployeeID.

## Unique keys

Name		Columns	Description
🔑	PK_Employee_BusinessEntityID	BusinessEntityID	Primary key (clustered) constraint
🔑	AK_Employee_LoginID	LoginID	Unique nonclustered index.
🔑	AK_Employee_NationalIDNumber	NationalIDNumber	Unique nonclustered index.
🔑	AK_Employee_rowguid	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.

### 4.1.3. Table: HumanResources.EmployeeDepartmentHistory

Employee department transfers.


## Columns

Name		Data type	Description
🔑	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.ShiftID.
🔑	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.

## Links to

Table		Join	Name / Description
➤	HumanResources.Department	<b>HumanResources.EmployeeDepartmentHistory</b> .DepartmentID = HumanResources.Department.DepartmentID	FK_EmployeeDepartmentHistory_Department_DepartmentID: Foreign key constraint referencing Department.DepartmentID.
➤	HumanResources.Employee	<b>HumanResources.EmployeeDepartmentHistory</b> .BusinessEntityID = HumanResources.Employee.BusinessEntityID	FK_EmployeeDepartmentHistory_Employee_BusinessEntityID: Foreign key constraint referencing Employee.EmployeeID.
➤	HumanResources.Shift	<b>HumanResources.EmployeeDepartmentHistory</b> .ShiftID = HumanResources.Shift.ShiftID	FK_EmployeeDepartmentHistory_Shift_ShiftID: Foreign key constraint referencing Shift.ShiftID



## Unique keys

Name		Columns	Description
	PK_EmployeeDepartmentHistory_BusinessEntityID_StartDate_DepartmentID	DepartmentID, ShiftID, BusinessEntityID, StartDate	Primary key (clustered) constraint


### 4.1.4. Table: HumanResources.EmployeePayHistory

Employee pay history.


#### Columns

Name		Data type	Description
	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.

#### Links to

Table	Join	Name / Description
 HumanResources.Employee	<b>HumanResources.EmployeePayHistory</b> BusinessEntityID = HumanResources.Employee.BusinessEntityID	FK_EmployeePayHistory_Employee_BusinessEntityID: Foreign key constraint referencing Employee.EmployeeID.


## Unique keys

Name		Columns	Description
	PK_EmployeePayHistory_BusinessEntityID_RateChangeDate	BusinessEntityID, RateChangeDate	Primary key (clustered) constraint


### 4.1.5. Table: HumanResources.JobCandidate

Résumés submitted to Human Resources by job applicants.


#### Columns

Name		Data type	Description
	JobCandidateID	int	Primary key for JobCandidate records.
	BusinessEntityID	int	Employee identification number if applicant was hired. Foreign key to Employee.BusinessEntityID.
	Resume	xml	Résumé in XML format.
	ModifiedDate	datetime	Date and time the record was last updated.

#### Links to

Table	Join	Name / Description
 HumanResources.Employee	<b>HumanResources.JobCandidate</b> .BusinessEntityID = HumanResources.Employee.BusinessEntityID	FK_JobCandidate_Employee_BusinessEntityID: Foreign key constraint referencing Employee.EmployeeID.


## Unique keys

	Name	Columns	Description
	PK_JobCandidate_JobCandidateID	JobCandidateID	Primary key (clustered) constraint


### 4.1.6. Table: HumanResources.Shift

Work shift lookup table.




#### Columns

	Name	Data type	Description
	ShiftID	tinyint	Primary key for Shift records.
	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.

#### Linked from

	Table	Join	Name / Description
	HumanResources.EmployeeDepartmentHistory	<b>HumanResources.Shift.ShiftID</b> = HumanResources.EmployeeDepartmentHistory.ShiftID	FK_EmployeeDepartmentHistory_Shift_ShiftID: Foreign key constraint referencing Shift.ShiftID

## Unique keys

	Name	Columns	Description
	PK_Shift_ShiftID	ShiftID	Primary key (clustered) constraint
	AK_Shift_Name	Name	Unique nonclustered index.
	AK_Shift_StartTime_EndTime	StartTime, EndTime	Unique nonclustered index.

## 4.2. Views

### 4.2.1. View: HumanResources.vEmployee

Employee names and addresses.

#### Columns

	Name	Data type	Description
	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)	

	Name	Data type	Description
	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	Description
	BusinessEntityID	int	
	Title	nvarchar(8)	
	FirstName	nvarchar(50)	
	MiddleName	nvarchar(50)	
	LastName	nvarchar(50)	
	Suffix	nvarchar(10)	
	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	Description
	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	



Name	Data type	Description
EndDate	date	

#### 4.2.4. View: HumanResources.vJobCandidate

Job candidate names and resumes.

##### Columns

Name	Data type	Description
JobCandidateID	int	
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)	
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	Description
JobCandidateID	int	
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)	

	Name	Data type	Description
	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 employment 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	Description
	JobCandidateID	int	
	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)	
	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
→@	BusinessEntityID	int	Input parameter for the stored procedure uspGetManagerEmployees. Enter a 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.
➤@	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

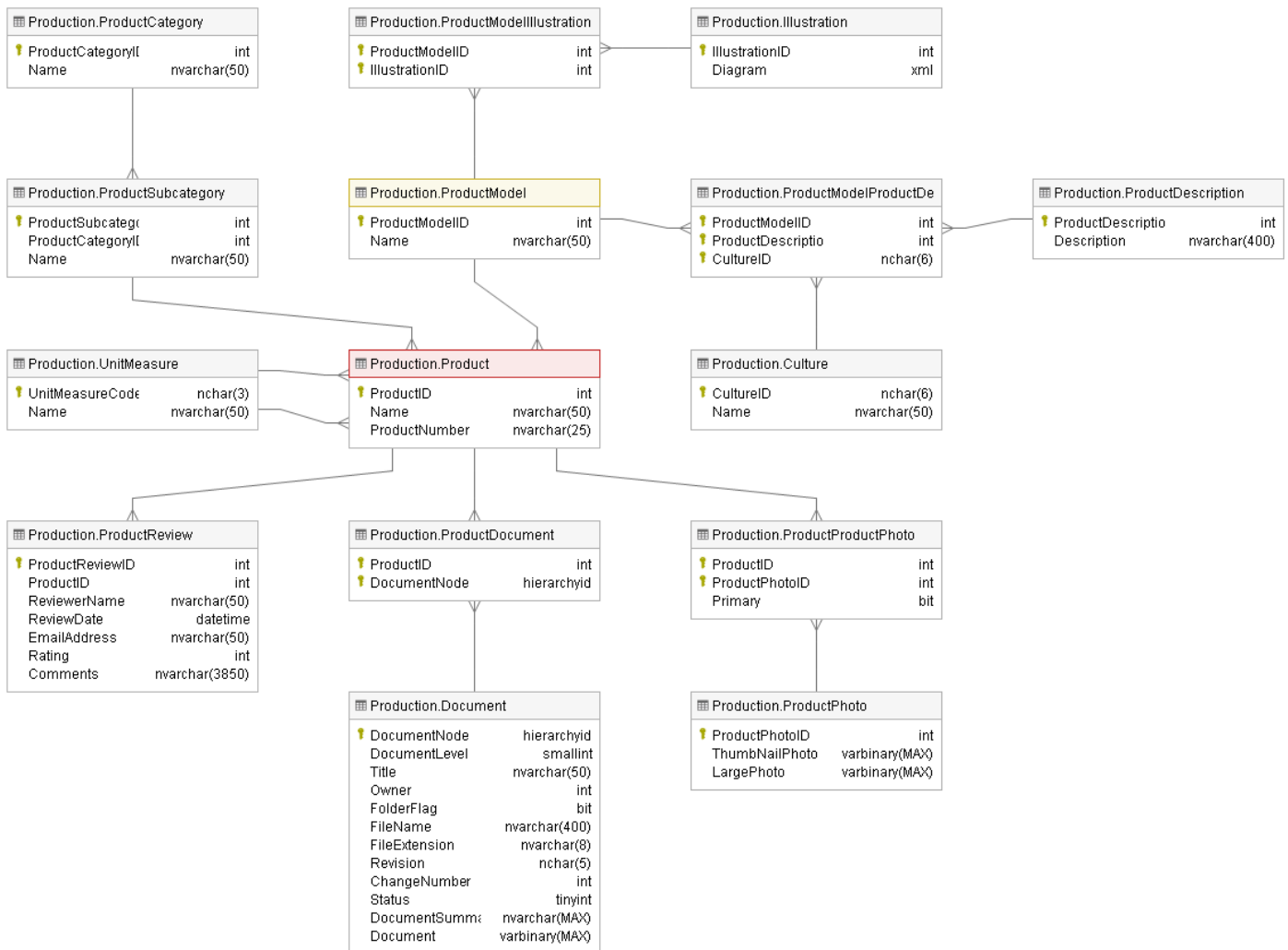
### 4.4.1. Function: dbo.ufnGetContactInformation

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	Description
	CultureID	nchar(6)	Primary key for Culture records.
	Name	nvarchar(50)	Culture description.
	ModifiedDate	datetime	Date and time the record was last updated.

##### Linked from

	Table	Join	Name / Description
	Production.ProductModelProductDescriptionCulture	<b>Production.Culture.CultureID</b> = Production.ProductModelProductDescriptionCulture.CultureID	FK_ProductModelProductDescriptionCulture_Culture_CultureID: Foreign key constraint referencing Culture.CultureID.


## Unique keys

	Name	Columns	Description
	PK_Culture_CultureID	CultureID	Primary key (clustered) constraint
	AK_Culture_Name	Name	Unique nonclustered index.


### 5.1.2. Table: Production.Document

Product maintenance documents.


## Columns

	Name	Data type	Description
	DocumentNode	hierarchyid	Primary key for Document records.
	DocumentLevel	smallint	Depth in the document hierarchy.
	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.
	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.
	Status	tinyint	1 = Pending approval, 2 = Approved, 3 = Obsolete
	DocumentSummary	nvarchar(MAX)	Document abstract.
	Document	varbinary(MAX)	Complete document.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Required for FileStream.
	ModifiedDate	datetime	Date and time the record was last updated.




## Links to


	Table	Join	Name / Description
	HumanResources.Employee	<b>Production.Document</b> .Owner = HumanResources.Employee.BusinessEntityID	FK_Document_Employee_Owner: Foreign key constraint referencing Employee.BusinessEntityID.

## Linked from

	Table	Join	Name / Description
	Production.ProductDocument	<b>Production.Document</b> .DocumentNode = Production.ProductDocument.DocumentNode	FK_ProductDocument_Document_DocumentNode: Foreign key constraint referencing Document.DocumentNode.

## Unique keys


	Name	Columns	Description
	PK_Document_DocumentNode	DocumentNode	Primary key (clustered) constraint
	AK_Document_DocumentLevel_DocumentNode	DocumentLevel, DocumentNode	Unique nonclustered index.
	AK_Document_rowguid	rowguid	Unique nonclustered index. Used to support FileStream.

	Name	Columns	Description
	UQ__Document__F73921F793071A63	rowguid	


### 5.1.3. Table: Production.Illustration

Bicycle assembly diagrams.

#### Columns

	Name	Data type	Description
	IllustrationID	int	Primary key for Illustration records.
	Diagram	xml	Illustrations used in manufacturing instructions. Stored as XML.
	ModifiedDate	datetime	Date and time the record was last updated.

#### Linked from

	Table	Join	Name / Description
	Production.ProductModelIllustration	<b>Production.Illustration</b> .IllustrationID = Production.ProductModelIllustration.IllustrationID	FK_ProductModelIllustration_Illustration_IllustrationID: Foreign key constraint referencing Illustration.IllustrationID.


#### Unique keys

	Name	Columns	Description
	PK_Illustration_IllustrationID	IllustrationID	Primary key (clustered) constraint

### 5.1.4. Table: Production.Product

Products sold or used in the manufacturing of sold products.

#### Columns

	Name	Data type	Description
	ProductID	int	Primary key for Product records.
	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.
	FinishedGoodsFlag	bit	0 = Product is not a salable item. 1 = Product is salable.
	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

Name		Data type	Description
	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.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

## Links to

Table		Join	Name / Description
➤	Production.ProductModel	<b>Production.Product.</b> ProductModelID = Production.ProductModel.ProductModelID	FK_Product_ProductModel_ProductModelID: Foreign key constraint referencing ProductModel.ProductModelID.
➤	Production.ProductSubcategory	<b>Production.Product.</b> ProductSubcategoryID = Production.ProductSubcategory.ProductSubcategoryID	FK_Product_ProductSubcategory_ProductSubcategoryID: Foreign key constraint referencing ProductSubcategory.ProductSubcategoryID.
➤	Production.UnitMeasure	<b>Production.Product.</b> SizeUnitMeasureCode = Production.UnitMeasure.UnitMeasureCode	FK_Product_UnitMeasure_SizeUnitMeasureCode: Foreign key constraint referencing UnitMeasure.UnitMeasureCode.
➤	Production.UnitMeasure	<b>Production.Product.</b> WeightUnitMeasureCode = Production.UnitMeasure.UnitMeasureCode	FK_Product_UnitMeasure_WeightUnitMeasureCode: Foreign key constraint referencing UnitMeasure.UnitMeasureCode.

## Linked from

Table		Join	Name / Description
⬅	Production.BillOfMaterials	<b>Production.Product.</b> ProductID = Production.BillOfMaterials.ComponentID	FK_BillOfMaterials_Product_ComponentID: Foreign key constraint referencing Product.ProductAssemblyID.
⬅	Production.BillOfMaterials	<b>Production.Product.</b> ProductID = Production.BillOfMaterials.ProductAssemblyID	FK_BillOfMaterials_Product_ProductAssemblyID: Foreign key constraint referencing Product.ProductAssemblyID.
⬅	Production.ProductCostHistory	<b>Production.Product.</b> ProductID = Production.ProductCostHistory.ProductID	FK_ProductCostHistory_Product_ProductID: Foreign key constraint referencing Product.ProductID.
⬅	Production.ProductDocument	<b>Production.Product.</b> ProductID = Production.ProductDocument.ProductID	FK_ProductDocument_Product_ProductID: Foreign key constraint referencing Product.ProductID.
⬅	Production.ProductInventory	<b>Production.Product.</b> ProductID = Production.ProductInventory.ProductID	FK_ProductInventory_Product_ProductID: Foreign key constraint referencing Product.ProductID.
⬅	Production.ProductListPriceHistory	<b>Production.Product.</b> ProductID = Production.ProductListPriceHistory.ProductID	FK_ProductListPriceHistory_Product_ProductID: Foreign key constraint referencing Product.ProductID.



Table		Join	Name / Description
↖	Production.ProductProductPhoto	<b>Production.Product</b> .ProductID = Production.ProductProductPhoto.ProductID	FK_ProductProductPhoto_Product_ProductID: Foreign key constraint referencing Product.ProductID.
↖	Production.ProductReview	<b>Production.Product</b> .ProductID = Production.ProductReview.ProductID	FK_ProductReview_Product_ProductID: Foreign key constraint referencing Product.ProductID.
↖	Purchasing.ProductVendor	<b>Production.Product</b> .ProductID = Purchasing.ProductVendor.ProductID	FK_ProductVendor_Product_ProductID: Foreign key constraint referencing Product.ProductID.
↖	Purchasing.PurchaseOrderDetail	<b>Production.Product</b> .ProductID = Purchasing.PurchaseOrderDetail.ProductID	FK_PurchaseOrderDetail_Product_ProductID: Foreign key constraint referencing Product.ProductID.
↗	Sales.SalesOrderDetail	<b>Production.Product</b> .ProductID = Sales.SalesOrderDetail.ProductID	User-defined relation
↖	Sales.ShoppingCartItem	<b>Production.Product</b> .ProductID = Sales.ShoppingCartItem.ProductID	FK_ShoppingCartItem_Product_ProductID: Foreign key constraint referencing Product.ProductID.
↖	Sales.SpecialOfferProduct	<b>Production.Product</b> .ProductID = Sales.SpecialOfferProduct.ProductID	FK_SpecialOfferProduct_Product_ProductID: Foreign key constraint referencing Product.ProductID.
↖	Production.TransactionHistory	<b>Production.Product</b> .ProductID = Production.TransactionHistory.ProductID	FK_TransactionHistory_Product_ProductID: Foreign key constraint referencing Product.ProductID.
↗	Production.TransactionHistoryArchive	<b>Production.Product</b> .ProductID = Production.TransactionHistoryArchive.ProductID	User-defined relation
↖	Production.WorkOrder	<b>Production.Product</b> .ProductID = Production.WorkOrder.ProductID	FK_WorkOrder_Product_ProductID: Foreign key constraint referencing Product.ProductID.

## Unique keys

	Name	Columns	Description
🔑	PK_Product_ProductID	ProductID	Primary key (clustered) constraint
🔑	AK_Product_Name	Name	Unique nonclustered index.
🔑	AK_Product_ProductNumber	ProductNumber	Unique nonclustered index.
🔑	AK_Product_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 5.1.5. Table: Production.ProductCategory

High-level product categorization.

#### Columns

	Name	Data type	Description
🔑	ProductCategoryID	int	Primary key for ProductCategory records.
	Name	nvarchar(50)	Category description.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

Linked from

Table		Join	Name / Description
←	Production.ProductSubcategory	<b>Production.ProductCategory</b> .ProductCategoryID = Production.ProductSubcategory.ProductCategoryID	FK_ProductSubcategory_ProductCategory_ProductCategoryID: Foreign key constraint referencing ProductCategory.ProductCategoryID.

Unique keys

Name		Columns	Description
🔑	PK_ProductCategory_ProductCategoryID	ProductCategoryID	Primary key (clustered) constraint
🔑	AK_ProductCategory_Name	Name	Unique nonclustered index.
🔑	AK_ProductCategory_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 5.1.6. Table: Production.ProductDescription

Product descriptions in several languages.

Columns

Name		Data type	Description
🔑	ProductDescriptionID	int	Primary key for ProductDescription records.
	Description	nvarchar(400)	Description of the product.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

Linked from

Table		Join	Name / Description
←	Production.ProductModelProductDescriptionCulture	<b>Production.ProductDescription</b> .ProductDescriptionID = Production.ProductModelProductDescriptionCulture.ProductDescriptionID	FK_ProductModelProductDescriptionCulture_ProductDescription_ProductDescriptionID: Foreign key constraint referencing ProductDescription.ProductDescriptionID.

Unique keys

Name		Columns	Description
🔑	PK_ProductDescription_ProductDescriptionID	ProductDescriptionID	Primary key (clustered) constraint
🔑	AK_ProductDescription_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 5.1.7. Table: Production.ProductDocument

Cross-reference table mapping products to related product documents.

Columns

Name		Data type	Description
🔑	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.

## Links to

	Table	Join	Name / Description
➤	Production.Document	<b>Production.ProductDocument</b> .DocumentNode = Production.Document.DocumentNode	FK_ProductDocument_Document_DocumentNode: Foreign key constraint referencing Document.DocumentNode.
➤	Production.Product	<b>Production.ProductDocument</b> .ProductID = Production.Product.ProductID	FK_ProductDocument_Product_ProductID: Foreign key constraint referencing Product.ProductID.

## Unique keys

	Name	Columns	Description
🔑	PK_ProductDocument_ProductID_DocumentNode	ProductID, DocumentNode	Primary key (clustered) constraint

### 5.1.8. Table: Production.ProductModel

Product model classification.

## Columns

	Name	Data type	Description
🔑	ProductModelID	int	Primary key for ProductModel records.
	Name	nvarchar(50)	Product model description.
	CatalogDescription	xml	Detailed product catalog information in xml format.
	Instructions	xml	Manufacturing instructions in xml format.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

## Linked from

	Table	Join	Name / Description
➤	Production.Product	<b>Production.ProductModel</b> .ProductModelID = Production.Product.ProductModelID	FK_Product_ProductModel_ProductModelID: Foreign key constraint referencing ProductModel.ProductModelID.
➤	Production.ProductModelIllustration	<b>Production.ProductModel</b> .ProductModelID = Production.ProductModelIllustration.ProductModelID	FK_ProductModelIllustration_ProductModel_ProductModelID: Foreign key constraint referencing ProductModel.ProductModelID.
➤	Production.ProductModelProductDescriptionCulture	<b>Production.ProductModel</b> .ProductModelID = Production.ProductModelProductDescriptionCulture.ProductModelID	FK_ProductModelProductDescriptionCulture_ProductModel_ProductModelID: Foreign key constraint referencing ProductModel.ProductModelID.



## Unique keys

	Name	Columns	Description
🔑	PK_ProductModel_ProductModelID	ProductModelID	Primary key (clustered) constraint
🔑	AK_ProductModel_Name	Name	Unique nonclustered index.
🔑	AK_ProductModel_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.



### 5.1.9. Table: Production.ProductModelIllustration

Cross-reference table mapping product models and illustrations.

## Columns

	Name	Data type	Description
	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.

## Links to

	Table	Join	Name / Description
	Production.Illustration	<b>Production.ProductModelIllustration.</b> IllustrationID = Production.Illustration.IllustrationID	FK_ProductModelIllustration_Illustration_IllustrationID: Foreign key constraint referencing Illustration.IllustrationID.
	Production.ProductModel	<b>Production.ProductModelIllustration.</b> ProductModelID = Production.ProductModel.ProductModelID	FK_ProductModelIllustration_ProductModel_ProductModelID: Foreign key constraint referencing ProductModel.ProductModelID.




## Unique keys

	Name	Columns	Description
	PK_ProductModelIllustration_ProductModelID_IllustrationID	ProductModelID, IllustrationID	Primary key (clustered) constraint




### 5.1.10. Table: Production.ProductModelProductDescriptionCulture

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


## Columns

	Name	Data type	Description
	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.

## Links to

	Table	Join	Name / Description
	Production.Culture	<b>Production.ProductModelProductDescriptionCulture.</b> CultureID = Production.Culture.CultureID	FK_ProductModelProductDescriptionCulture_Culture_CultureID: Foreign key constraint referencing Culture.CultureID.
	Production.ProductDescription	<b>Production.ProductModelProductDescriptionCulture.</b> ProductDescriptionID = Production.ProductDescription.ProductDescriptionID	FK_ProductModelProductDescriptionCulture_ProductDescription_ProductDescriptionID: Foreign key constraint referencing ProductDescription.ProductDescriptionID.
	Production.ProductModel	<b>Production.ProductModelProductDescriptionCulture.</b> ProductModelID = Production.ProductModel.ProductModelID	FK_ProductModelProductDescriptionCulture_ProductModel_ProductModelID: Foreign key constraint referencing ProductModel.ProductModelID.


## Unique keys

	Name	Columns	Description
	PK_ProductModelProductDescriptionCulture_ProductModelID_ProductDescriptionID_CultureID	ProductModelID, ProductDescriptionID, CultureID	Primary key (clustered) constraint

### 5.1.11. Table: Production.ProductPhoto

Product images.

#### Columns

	Name	Data type	Description
	ProductPhotoID	int	Primary key for ProductPhoto records.
	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.

#### Linked from

	Table	Join	Name / Description
	Production.ProductProductPhoto	<b>Production.ProductPhoto</b> .ProductPhotoID = Production.ProductProductPhoto.ProductPhotoID	FK_ProductProductPhoto_ProductPhoto_ProductPhotoID: Foreign key constraint referencing ProductPhoto.ProductPhotoID.



## Unique keys

	Name	Columns	Description
	PK_ProductPhoto_ProductPhotoID	ProductPhotoID	Primary key (clustered) constraint

### 5.1.12. Table: Production.ProductProductPhoto

Cross-reference table mapping products and product photos.

#### Columns

	Name	Data type	Description
	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.
	ModifiedDate	datetime	Date and time the record was last updated.

#### Links to


	Table	Join	Name / Description
	Production.Product	<b>Production.ProductProductPhoto</b> .ProductID = Production.Product.ProductID	FK_ProductProductPhoto_Product_ProductID: Foreign key constraint referencing Product.ProductID.

Table	Join	Name / Description
➤ Production.ProductPhoto	<b>Production.ProductProductPhoto</b> .ProductPhotoID = Production.ProductPhoto.ProductPhotoID	FK_ProductProductPhoto_ProductPhoto_ProductPhotoID: Foreign key constraint referencing ProductPhoto.ProductPhotoID.

## Unique keys

Name	Columns	Description
🔑 PK_ProductProductPhoto_ProductID_ProductPhotoID	ProductID, ProductPhotoID	Primary key (clustered) constraint

## 5.1.13. Table: Production.ProductReview

Customer reviews of products they have purchased.

## Columns

Name	Data type	Description
🔑 ProductReviewID	int	Primary key for ProductReview records.
ProductID	int	Product identification number. Foreign key to Product.ProductID.
ReviewerName	nvarchar(50)	Name of the reviewer.
ReviewDate	datetime	Date review was submitted.
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.
Comments	nvarchar(3850)	Reviewer's comments
ModifiedDate	datetime	Date and time the record was last updated.

## Links to

Table	Join	Name / Description
➤ Production.Product	<b>Production.ProductReview</b> .ProductID = Production.Product.ProductID	FK_ProductReview_Product_ProductID: Foreign key constraint referencing Product.ProductID.

## Unique keys

Name	Columns	Description
🔑 PK_ProductReview_ProductReviewID	ProductReviewID	Primary key (clustered) constraint

## 5.1.14. Table: Production.ProductSubcategory

Product subcategories. See ProductCategory table.

## Columns

Name	Data type	Description
🔑 ProductSubcategoryID	int	Primary key for ProductSubcategory records.
ProductCategoryID	int	Product category identification number. Foreign key to ProductCategory.ProductCategoryID.
Name	nvarchar(50)	Subcategory description.
rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
ModifiedDate	datetime	Date and time the record was last updated.

## Links to

	Table	Join	Name / Description
➤	Production.ProductCategory	<b>Production.ProductSubcategory</b> .ProductCategoryID = Production.ProductCategory.ProductCategoryID	FK_ProductSubcategory_ProductCategory_ProductCategoryID: Foreign key constraint referencing ProductCategory.ProductCategoryID.

## Linked from

	Table	Join	Name / Description
➤	Production.Product	<b>Production.ProductSubcategory</b> .ProductSubcategoryID = Production.Product.ProductSubcategoryID	FK_Product_ProductSubcategory_ProductSubcategoryID: Foreign key constraint referencing ProductSubcategory.ProductSubcategoryID.

## Unique keys

	Name	Columns	Description
🔑	PK_ProductSubcategory_ProductSubcategoryID	ProductSubcategoryID	Primary key (clustered) constraint
🔑	AK_ProductSubcategory_Name	Name	Unique nonclustered index.
🔑	AK_ProductSubcategory_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 5.1.15. Table: Production.UnitMeasure

#### Unit of measure lookup table.



#### Columns

	Name	Data type	Description
🔑	UnitMeasureCode	nchar(3)	Primary key.
	Name	nvarchar(50)	Unit of measure description.
	ModifiedDate	datetime	Date and time the record was last updated.

## Linked from

	Table	Join	Name / Description
➤	Production.BillOfMaterials	<b>Production.UnitMeasure</b> .UnitMeasureCode = Production.BillOfMaterials.UnitMeasureCode	FK_BillOfMaterials_UnitMeasure_UnitMeasureCode: Foreign key constraint referencing UnitMeasure.UnitMeasureCode.
➤	Production.Product	<b>Production.UnitMeasure</b> .UnitMeasureCode = Production.Product.SizeUnitMeasureCode	FK_Product_UnitMeasure_SizeUnitMeasureCode: Foreign key constraint referencing UnitMeasure.UnitMeasureCode.
➤	Production.Product	<b>Production.UnitMeasure</b> .UnitMeasureCode = Production.Product.WeightUnitMeasureCode	FK_Product_UnitMeasure_WeightUnitMeasureCode: Foreign key constraint referencing UnitMeasure.UnitMeasureCode.
➤	Purchasing.ProductVendor	<b>Production.UnitMeasure</b> .UnitMeasureCode = Purchasing.ProductVendor.UnitMeasureCode	FK_ProductVendor_UnitMeasure_UnitMeasureCode: Foreign key constraint referencing UnitMeasure.UnitMeasureCode.

## Unique keys

	Name	Columns	Description
	PK_UnitMeasure_UnitMeasureCode	UnitMeasureCode	Primary key (clustered) constraint
	AK_UnitMeasure_Name	Name	Unique nonclustered index.

## 5.2. Views

### 5.2.1. View: Production.vProductAndDescription

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

#### Columns

	Name	Data type	Description
	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	Description
	ProductModelID	int	
	Name	nvarchar(50)	
	Summary	nvarchar(MAX)	
	Manufacturer	nvarchar(MAX)	
	Copyright	nvarchar(30)	
	ProductURL	nvarchar(256)	
	WarrantyPeriod	nvarchar(256)	
	WarrantyDescription	nvarchar(256)	
	NoOfYears	nvarchar(256)	
	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)	



	Name	Data type	Description
	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	Description
	ProductModelID	int	
	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.
↗@	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	

	Name	Data type	Description
→@	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.

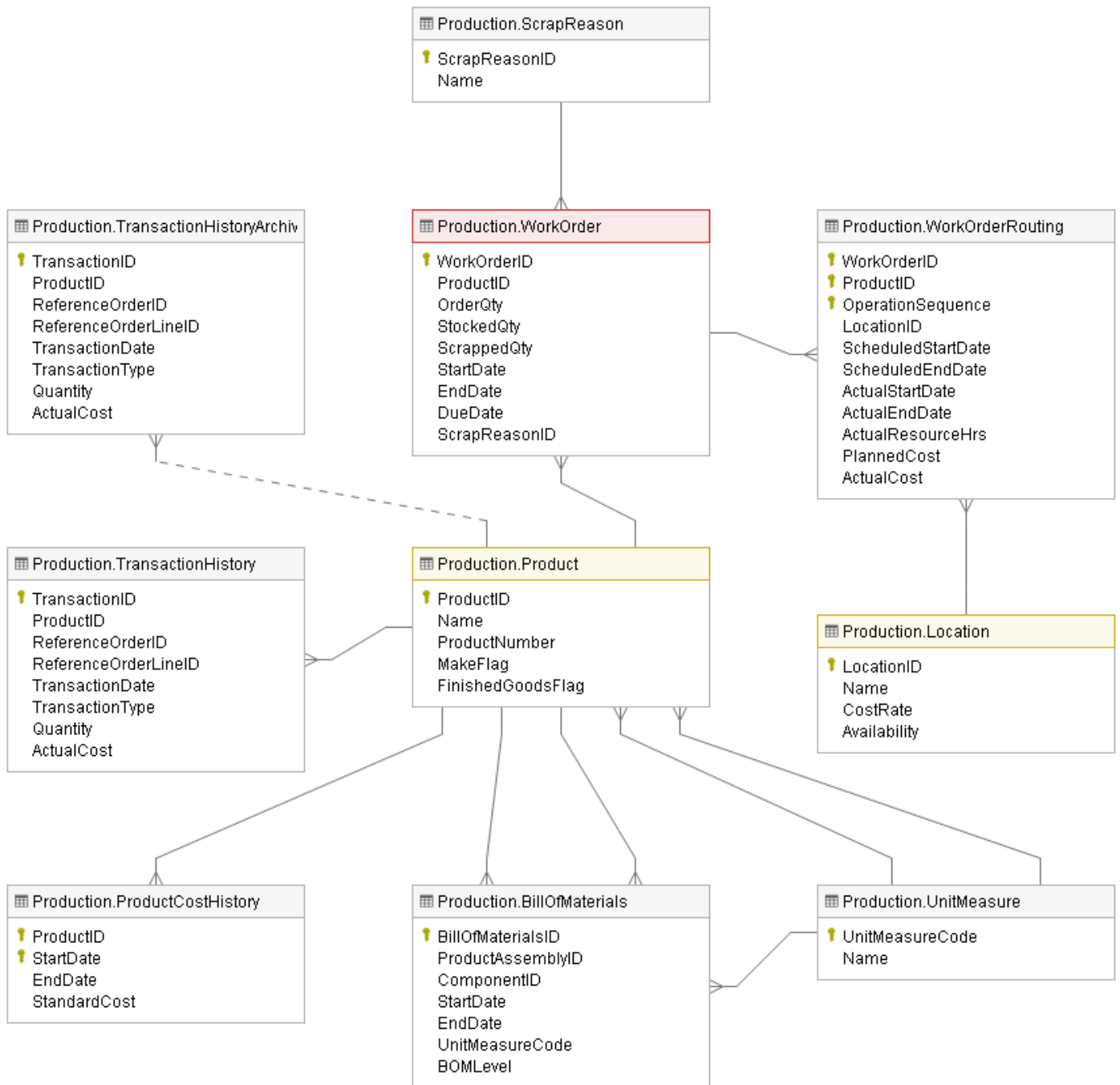
#### 5.4.5. Function: dbo.ufnGetStock

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	Description
	BillOfMaterialsID	int	Primary key for BillOfMaterials records.
	ProductAssemblyID	int	Parent product identification number. Foreign key to Product.ProductID.
	ComponentID	int	Component identification number. Foreign key to Product.ProductID.

Name	Data type	Description
StartDate	datetime	Date the component started being used in the assembly item.
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.
ModifiedDate	datetime	Date and time the record was last updated.

## Links to

Table	Join	Name / Description
➤ Production.Product	<b>Production.BillOfMaterials</b> .ComponentID = Production.Product.ProductID	FK_BillOfMaterials_Product_ComponentID: Foreign key constraint referencing Product.ProductAssemblyID.
➤ Production.Product	<b>Production.BillOfMaterials</b> .ProductAssemblyID = Production.Product.ProductID	FK_BillOfMaterials_Product_ProductAssemblyID: Foreign key constraint referencing Product.ProductAssemblyID.
➤ Production.UnitMeasure	<b>Production.BillOfMaterials</b> .UnitMeasureCode = Production.UnitMeasure.UnitMeasureCode	FK_BillOfMaterials_UnitMeasure_UnitMeasureCode: Foreign key constraint referencing UnitMeasure.UnitMeasureCode.

## Unique keys

Name	Columns	Description
🔑 PK_BillOfMaterials_BillOfMaterialsID	BillOfMaterialsID	Primary key (clustered) constraint
🔑 AK_BillOfMaterials_ProductAssemblyID_ComponentID_StartDate	ComponentID, StartDate, ProductAssemblyID	Clustered index.

## 6.1.2. Table: Production.ProductCostHistory

Changes in the cost of a product over time.

## Columns

Name	Data type	Description
🔑 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.
ModifiedDate	datetime	Date and time the record was last updated.

## Links to

Table	Join	Name / Description
➤ Production.Product	<b>Production.ProductCostHistory</b> .ProductID = Production.Product.ProductID	FK_ProductCostHistory_Product_ProductID: Foreign key constraint referencing Product.ProductID.


## Unique keys

Name	Columns	Description
🔑 PK_ProductCostHistory_ProductID_StartDate	ProductID, StartDate	Primary key (clustered) constraint


### 6.1.3. Table: Production.ProductListPriceHistory

Changes in the list price of a product over time.


#### Columns

	Name	Data type	Description
	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.

#### Links to

	Table	Join	Name / Description
	Production.Product	<b>Production.ProductListPriceHistory</b> .ProductID = Production.Product.ProductID	FK_ProductListPriceHistory_Product_ProductID: Foreign key constraint referencing Product.ProductID.


#### Unique keys

	Name	Columns	Description
	PK_ProductListPriceHistory_ProductID_StartDate	ProductID, StartDate	Primary key (clustered) constraint


### 6.1.4. Table: Production.ScrapReason

Manufacturing failure reasons lookup table.



#### Columns

	Name	Data type	Description
	ScrapReasonID	smallint	Primary key for ScrapReason records.
	Name	nvarchar(50)	Failure description.
	ModifiedDate	datetime	Date and time the record was last updated.

#### Linked from

	Table	Join	Name / Description
	Production.WorkOrder	<b>Production.ScrapReason</b> .ScrapReasonID = Production.WorkOrder.ScrapReasonID	FK_WorkOrder_ScrapReason_ScrapReasonID: Foreign key constraint referencing ScrapReason.ScrapReasonID.


#### Unique keys

	Name	Columns	Description
	PK_ScrapReason_ScrapReasonID	ScrapReasonID	Primary key (clustered) constraint
	AK_ScrapReason_Name	Name	Unique nonclustered index.

### 6.1.5. Table: Production.TransactionHistory

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


## Columns

	Name	Data type	Description
	TransactionID	int	Primary key for TransactionHistory records.
	ProductID	int	Product identification number. Foreign key to Product.ProductID.
	ReferenceOrderID	int	Purchase order, sales order, or work order identification number.
	ReferenceOrderLineID	int	Line number associated with the purchase order, sales order, or work order.
	TransactionDate	datetime	Date and time of the transaction.
	TransactionType	nchar(1)	W = WorkOrder, S = SalesOrder, P = PurchaseOrder
	Quantity	int	Product quantity.
	ActualCost	money	Product cost.
	ModifiedDate	datetime	Date and time the record was last updated.

## Links to

	Table	Join	Name / Description
	Production.Product	<b>Production.TransactionHistory</b> .ProductID = Production.Product.ProductID	FK_TransactionHistory_Product_ProductID: Foreign key constraint referencing Product.ProductID.


## Unique keys

	Name	Columns	Description
	PK_TransactionHistory_TransactionID	TransactionID	Primary key (clustered) constraint


### 6.1.6. Table: Production.TransactionHistoryArchive

Transactions for previous years.


## Columns

	Name	Data type	Description
	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.
	ReferenceOrderLineID	int	Line number associated with the purchase order, sales order, or work order.
	TransactionDate	datetime	Date and time of the transaction.
	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.

## Links to

	Table	Join	Name / Description
	Production.Product	<b>Production.TransactionHistoryArchive</b> .ProductID = Production.Product.ProductID	User-defined relation


## Unique keys

	Name	Columns	Description
	PK_TransactionHistoryArchive_TransactionID	TransactionID	Primary key (clustered) constraint



## 6.1.7. Table: Production.WorkOrder

Manufacturing work orders.


### Columns

	Name	Data type	Description
	WorkOrderID	int	Primary key for WorkOrder records.
	ProductID	int	Product identification number. Foreign key to Product.ProductID.
	OrderQty	int	Product quantity to build.
	StockedQty	int	Quantity built and put in inventory.
	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.

### Links to

	Table	Join	Name / Description
	Production.Product	<b>Production.WorkOrder</b> .ProductID = Production.Product.ProductID	FK_WorkOrder_Product_ProductID: Foreign key constraint referencing Product.ProductID.
	Production.ScrapReason	<b>Production.WorkOrder</b> .ScrapReasonID = Production.ScrapReason.ScrapReasonID	FK_WorkOrder_ScrapReason_ScrapReasonID: Foreign key constraint referencing ScrapReason.ScrapReasonID.



### Linked from

	Table	Join	Name / Description
	Production.WorkOrderRouting	<b>Production.WorkOrder</b> .WorkOrderID = Production.WorkOrderRouting.WorkOrderID	FK_WorkOrderRouting_WorkOrder_WorkOrderID: Foreign key constraint referencing WorkOrder.WorkOrderID.

## Unique keys

	Name	Columns	Description
	PK_WorkOrder_WorkOrderID	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.



## 6.1.8. Table: Production.WorkOrderRouting

Work order details.

### Columns

	Name	Data type	Description
🔑	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.

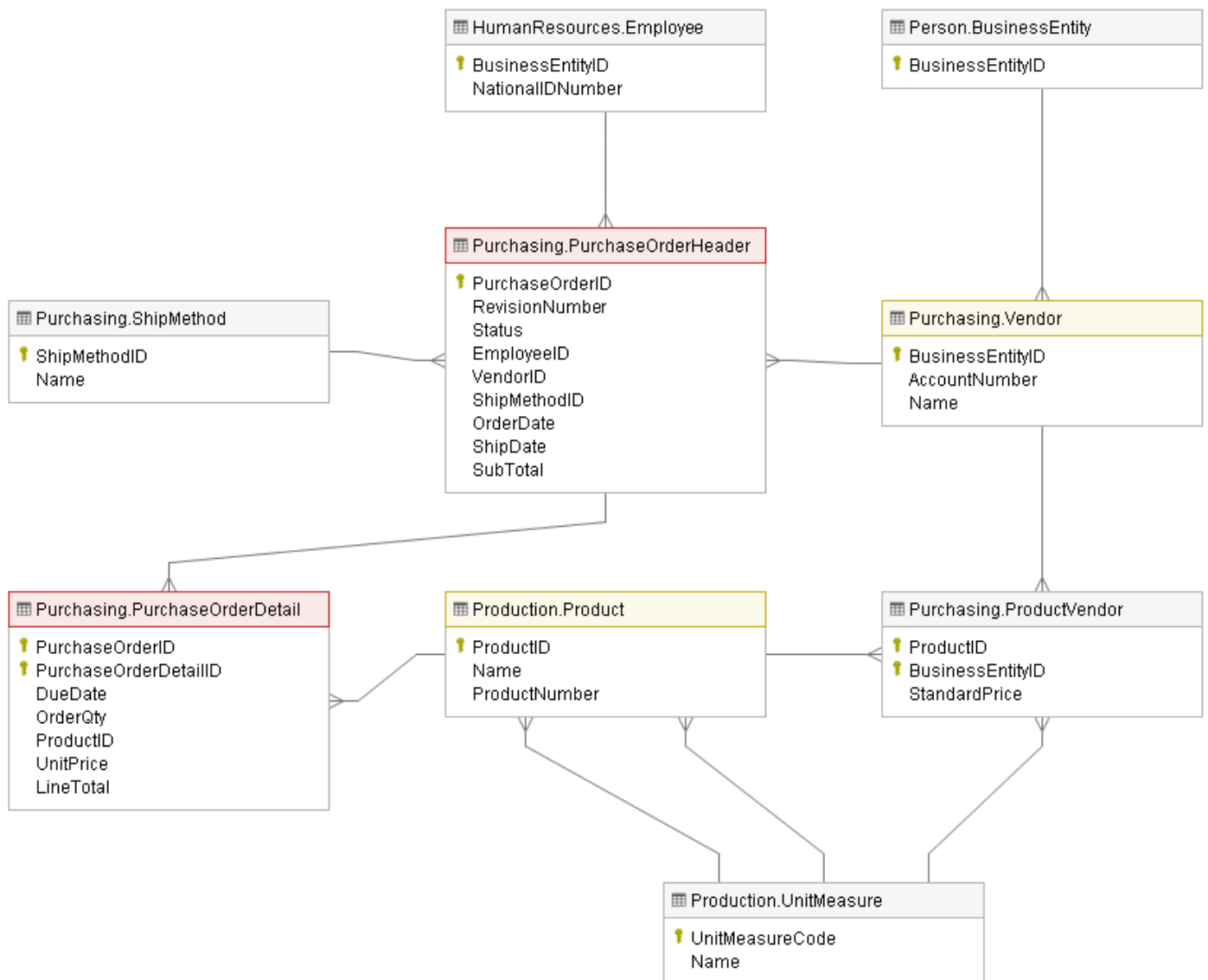
### Links to

	Table	Join	Name / Description
➤	Production.Location	<b>Production.WorkOrderRouting</b> . LocationID = Production.Location.LocationID	FK_WorkOrderRouting_Location_LocationID: Foreign key constraint referencing Location.LocationID.
➤	Production.WorkOrder	<b>Production.WorkOrderRouting</b> . WorkOrderID = Production.WorkOrder.WorkOrderID	FK_WorkOrderRouting_WorkOrder_WorkOrderID: Foreign key constraint referencing WorkOrder.WorkOrderID.

### Unique keys

	Name	Columns	Description
🔑	PK_WorkOrderRouting_WorkOrderID_ProductID_OperationSequence	WorkOrderID, ProductID, OperationSequence	Primary key (clustered) constraint

## 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	Description
🔑	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	Description
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.

## Links to

Table	Join	Name / Description
➤ Production.Product	<b>Purchasing.ProductVendor</b> .ProductID = Production.Product.ProductID	FK_ProductVendor_Product_ProductID: Foreign key constraint referencing Product.ProductID.
➤ Production.UnitMeasure	<b>Purchasing.ProductVendor</b> .UnitMeasureCode = Production.UnitMeasure.UnitMeasureCode	FK_ProductVendor_UnitMeasure_UnitMeasureCode: Foreign key constraint referencing UnitMeasure.UnitMeasureCode.
➤ Purchasing.Vendor	<b>Purchasing.ProductVendor</b> .BusinessEntityID = Purchasing.Vendor.BusinessEntityID	FK_ProductVendor_Vendor_BusinessEntityID: Foreign key constraint referencing Vendor.BusinessEntityID.

## Unique keys

Name	Columns	Description
🔑 PK_ProductVendor_ProductID_BusinessEntityID	ProductID, BusinessEntityID	Primary key (clustered) constraint

### 7.1.2. Table: Purchasing.PurchaseOrderDetail

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

## Columns

Name	Data type	Description
🔑 PurchaseOrderID	int	Primary key. Foreign key to PurchaseOrderHeader.PurchaseOrderID.
🔑 PurchaseOrderDetailID	int	Primary key. One line number per purchased product.
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.
ReceivedQty	decimal(8, 2)	Quantity actually received from the vendor.
RejectedQty	decimal(8, 2)	Quantity rejected during inspection.
StockedQty	decimal(9, 2)	Quantity accepted into inventory. Computed as ReceivedQty - RejectedQty.
ModifiedDate	datetime	Date and time the record was last updated.

## Links to

Table	Join	Name / Description
➤ Production.Product	<b>Purchasing.PurchaseOrderDetail</b> .ProductID = Production.Product.ProductID	FK_PurchaseOrderDetail_Product_ProductID: Foreign key constraint referencing Product.ProductID.

	Table	Join	Name / Description
➤	Purchasing.PurchaseOrderHeader	<b>Purchasing.PurchaseOrderDetail</b> .PurchaseOrderID = Purchasing.PurchaseOrderHeader.PurchaseOrderID	FK_PurchaseOrderDetail_PurchaseOrderHeader_PurchaseOrderID: Foreign key constraint referencing PurchaseOrderHeader.PurchaseOrderID.

## Unique keys

	Name	Columns	Description
🔑	PK_PurchaseOrderDetail_PurchaseOrderID_PurchaseOrderDetailID	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.
⚡	uPurchaseOrderDetail	After Update	AFTER UPDATE trigger that inserts a row in the TransactionHistory table, updates ModifiedDate in PurchaseOrderDetail and updates the PurchaseOrderHeader.SubTotal column.

### 7.1.3. Table: Purchasing.PurchaseOrderHeader

General purchase order information. See PurchaseOrderDetail.

## Columns

	Name	Data type	Description
🔑	PurchaseOrderID	int	Primary key.
	RevisionNumber	tinyint	Incremental number to track changes to the purchase order over time.
	Status	tinyint	Order current status. 1 = Pending; 2 = Approved; 3 = Rejected; 4 = Complete
	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.
	ShipDate	datetime	Estimated shipment date from the vendor.
	SubTotal	money	Purchase order subtotal. Computed as SUM(PurchaseOrderDetail.LineTotal)for the appropriate PurchaseOrderID.
	TaxAmt	money	Tax amount.
	Freight	money	Shipping cost.
	TotalDue	money	Total due to vendor. Computed as Subtotal + TaxAmt + Freight.
	ModifiedDate	datetime	Date and time the record was last updated.

## Links to

	Table	Join	Name / Description
➤	HumanResources.Employee	<b>Purchasing.PurchaseOrderHeader</b> .EmployeeID = HumanResources.Employee.BusinessEntityID	FK_PurchaseOrderHeader_Employee_EmployeeID: Foreign key constraint referencing Employee.EmployeeID.

	Table	Join	Name / Description
➤	Purchasing.ShipMethod	<b>Purchasing.PurchaseOrderHeader</b> .ShipMethodID = Purchasing.ShipMethod.ShipMethodID	FK_PurchaseOrderHeader_ShipMethod_ShipMethodID: Foreign key constraint referencing ShipMethod.ShipMethodID.
➤	Purchasing.Vendor	<b>Purchasing.PurchaseOrderHeader</b> .VendorID = Purchasing.Vendor.BusinessEntityID	FK_PurchaseOrderHeader_Vendor_VendorID: Foreign key constraint referencing Vendor.VendorID.

#### Linked from

	Table	Join	Name / Description
⬅	Purchasing.PurchaseOrderDetail	<b>Purchasing.PurchaseOrderHeader</b> .PurchaseOrderID = Purchasing.PurchaseOrderDetail.PurchaseOrderID	FK_PurchaseOrderDetail_PurchaseOrderHeader_PurchaseOrderID: Foreign key constraint referencing PurchaseOrderHeader.PurchaseOrderID.

#### Unique keys

	Name	Columns	Description
🔑	PK_PurchaseOrderHeader_PurchaseOrderID	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.

### 7.1.4. Table: Purchasing.ShipMethod

Shipping company lookup table.




#### Columns

	Name	Data type	Description
🔑	ShipMethodID	int	Primary key for ShipMethod records.
	Name	nvarchar(50)	Shipping company name.
	ShipBase	money	Minimum shipping charge.
	ShipRate	money	Shipping charge per pound.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

#### Linked from

	Table	Join	Name / Description
⬅	Purchasing.PurchaseOrderHeader	<b>Purchasing.ShipMethod</b> .ShipMethodID = Purchasing.PurchaseOrderHeader.ShipMethodID	FK_PurchaseOrderHeader_ShipMethod_ShipMethodID: Foreign key constraint referencing ShipMethod.ShipMethodID.
⬅	Sales.SalesOrderHeader	<b>Purchasing.ShipMethod</b> .ShipMethodID = Sales.SalesOrderHeader.ShipMethodID	FK_SalesOrderHeader_ShipMethod_ShipMethodID: Foreign key constraint referencing ShipMethod.ShipMethodID.


## Unique keys

	Name	Columns	Description
	PK_ShipMethod_ShipMethodID	ShipMethodID	Primary key (clustered) constraint
	AK_ShipMethod_Name	Name	Unique nonclustered index.
	AK_ShipMethod_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.


### 7.1.5. Table: Purchasing.Vendor

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



#### Columns

	Name	Data type	Description
	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
	PreferredVendorStatus	bit	0 = Do not use if another vendor is available. 1 = Preferred over other vendors supplying the same product.
	ActiveFlag	bit	0 = Vendor no longer used. 1 = Vendor is actively used.
	PurchasingWebServiceURL	nvarchar(1024)	Vendor URL.
	ModifiedDate	datetime	Date and time the record was last updated.



#### Links to

	Table	Join	Name / Description
	Person.BusinessEntity	<b>Purchasing.Vendor</b> .BusinessEntityID = Person.BusinessEntity.BusinessEntityID	FK_Vendor_BusinessEntity_BusinessEntityID: Foreign key constraint referencing BusinessEntity.BusinessEntityID

#### Linked from

	Table	Join	Name / Description
	Purchasing.ProductVendor	<b>Purchasing.Vendor</b> .BusinessEntityID = Purchasing.ProductVendor.BusinessEntityID	FK_ProductVendor_Vendor_BusinessEntityID: Foreign key constraint referencing Vendor.BusinessEntityID.
	Purchasing.PurchaseOrderHeader	<b>Purchasing.Vendor</b> .BusinessEntityID = Purchasing.PurchaseOrderHeader.VendorID	FK_PurchaseOrderHeader_Vendor_VendorID: Foreign key constraint referencing Vendor.VendorID.

## Unique keys

	Name	Columns	Description
	PK_Vendor_BusinessEntityID	BusinessEntityID	Primary key (clustered) constraint
	AK_Vendor_AccountNumber	AccountNumber	Unique nonclustered index.

## Triggers

	Name	When	Description
	dVendor	Instead Of Delete	INSTEAD OF DELETE trigger which keeps Vendors from being deleted.

## 7.2. Views

### 7.2.1. View: Purchasing.vVendorWithAddresses

Vendor (company) names and addresses .

#### Columns

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

### 7.2.2. View: Purchasing.vVendorWithContacts

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

#### Columns

Name		Data type	Description
	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	

## 7.3. Functions

### 7.3.1. Function: dbo.ufnGetPurchaseOrderStatusText

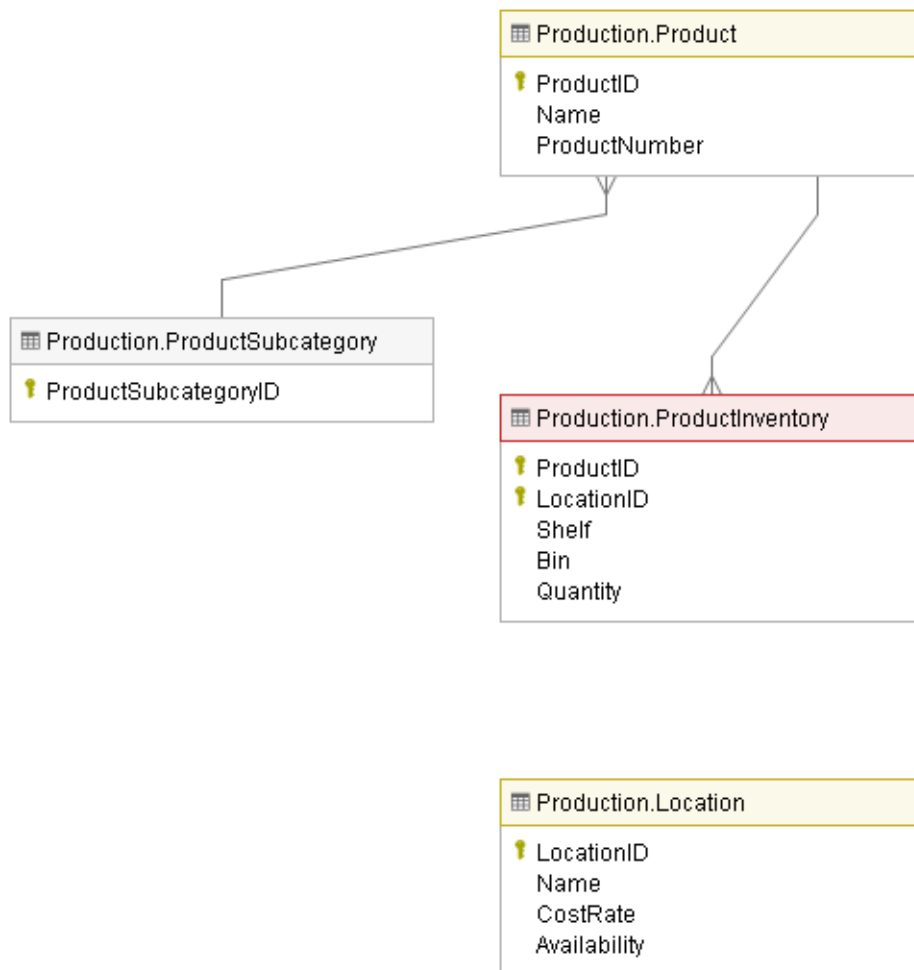
Scalar function returning the text representation of the Status column in the PurchaseOrderHeader table.

## Input/Output

	Name	Data type	Description
↩@	Returns	nvarchar(15)	
→@	Status	tinyint	Input parameter for the scalar function ufnGetPurchaseOrderStatusText. Enter a valid integer.



## 8. Inventory



### 8.1. Tables

#### 8.1.1. Table: Production.Location

Product inventory and manufacturing locations.



##### Columns

	Name	Data type	Description
🔑	LocationID	smallint	Primary key for Location records.
	Name	nvarchar(50)	Location description.
	CostRate	smallmoney	Standard hourly cost of the manufacturing location.
	Availability	decimal(8, 2)	Work capacity (in hours) of the manufacturing location.
	ModifiedDate	datetime	Date and time the record was last updated.

##### Linked from

	Table	Join	Name / Description
↩	Production.ProductInventory	<b>Production.Location</b> .LocationID = Production.ProductInventory.LocationID	FK_ProductInventory_Location_LocationID: Foreign key constraint referencing Location.LocationID.
↩	Production.WorkOrderRouting	<b>Production.Location</b> .LocationID = Production.WorkOrderRouting.LocationID	FK_WorkOrderRouting_Location_LocationID: Foreign key constraint referencing Location.LocationID.



## Unique keys

	Name	Columns	Description
	PK_Location_LocationID	LocationID	Primary key (clustered) constraint
	AK_Location_Name	Name	Unique nonclustered index.



### 8.1.2. Table: Production.ProductInventory

Product inventory information.

#### Columns

	Name	Data type	Description
	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.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

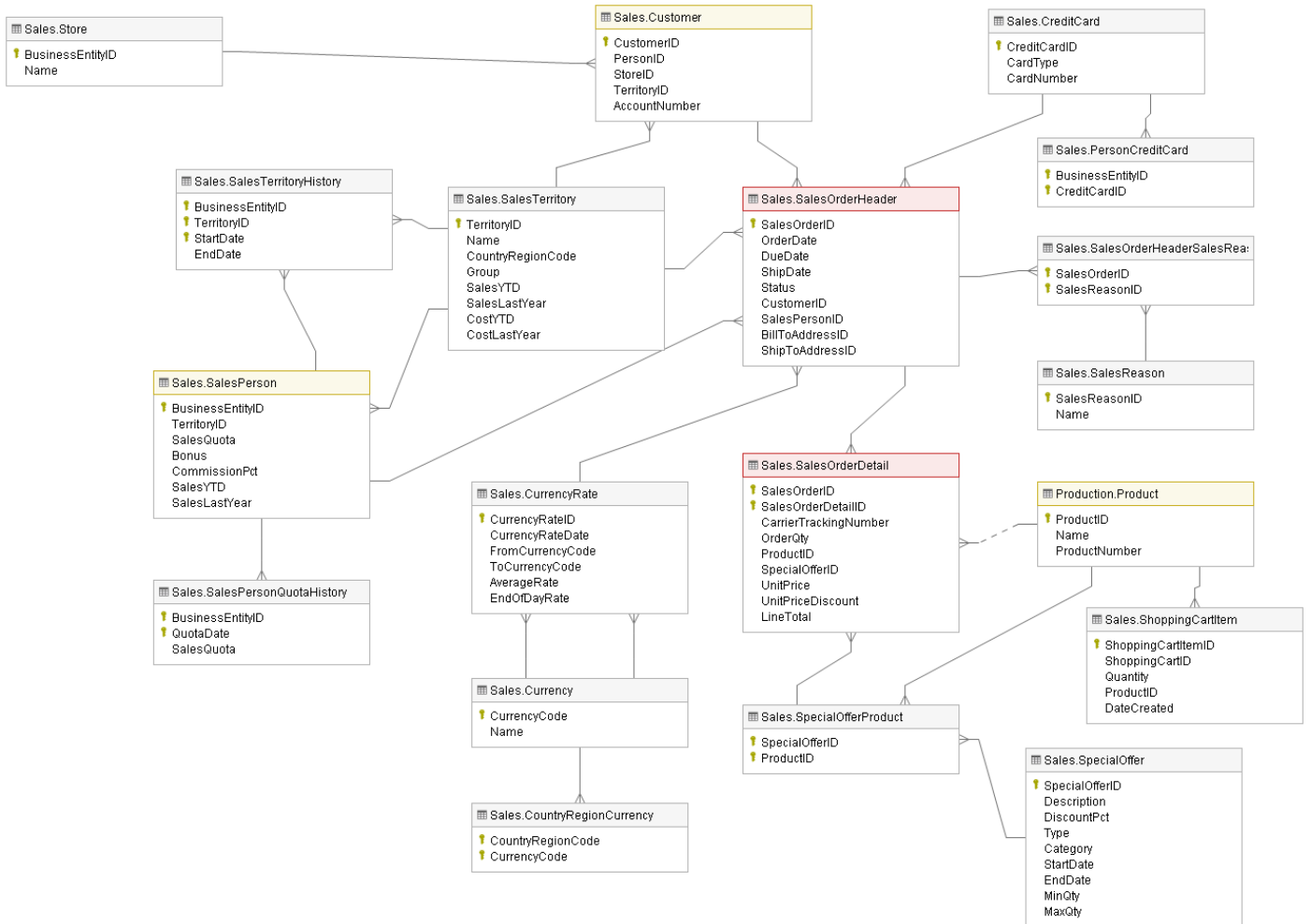
#### Links to

	Table	Join	Name / Description
	Production.Location	<b>Production.ProductInventory</b> .LocationID = Production.Location.LocationID	FK_ProductInventory_Location_LocationID: Foreign key constraint referencing Location.LocationID.
	Production.Product	<b>Production.ProductInventory</b> .ProductID = Production.Product.ProductID	FK_ProductInventory_Product_ProductID: Foreign key constraint referencing Product.ProductID.

## Unique keys

	Name	Columns	Description
	PK_ProductInventory_ProductID_LocationID	ProductID, LocationID	Primary key (clustered) constraint

## 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	Description
🔑	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.

Links to

	Table	Join	Name / Description
➤	Person.CountryRegion	<b>Sales.CountryRegionCurrency</b> .CountryRegionCode = Person.CountryRegion.CountryRegionCode	FK_CountryRegionCurrency_CountryRegion_CountryRegionCode: Foreign key constraint referencing CountryRegion.CountryRegionCode.
➤	Sales.Currency	<b>Sales.CountryRegionCurrency</b> .CurrencyCode = Sales.Currency.CurrencyCode	FK_CountryRegionCurrency_Currency_CurrencyCode: Foreign key constraint referencing Currency.CurrencyCode.


## Unique keys

	Name	Columns	Description
	PK_CountryRegionCurrency_CountryRegionCode_CurrencyCode	CountryRegionCode, CurrencyCode	Primary key (clustered) constraint



### 9.1.2. Table: Sales.CreditCard

Customer credit card information.



## Columns

	Name	Data type	Description
	CreditCardID	int	Primary key for CreditCard records.
	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.

## Linked from

	Table	Join	Name / Description
	Sales.PersonCreditCard	<b>Sales.CreditCard</b> .CreditCardID = Sales.PersonCreditCard.CreditCardID	FK_PersonCreditCard_CreditCard_CreditCardID: Foreign key constraint referencing CreditCard.CreditCardID.
	Sales.SalesOrderHeader	<b>Sales.CreditCard</b> .CreditCardID = Sales.SalesOrderHeader.CreditCardID	FK_SalesOrderHeader_CreditCard_CreditCardID: Foreign key constraint referencing CreditCard.CreditCardID.


## Unique keys

	Name	Columns	Description
	PK_CreditCard_CreditCardID	CreditCardID	Primary key (clustered) constraint
	AK_CreditCard_CardNumber	CardNumber	Unique nonclustered index.

### 9.1.3. Table: Sales.Currency

Lookup table containing standard ISO currencies.

## Columns

	Name	Data type	Description
	CurrencyCode	nchar(3)	The ISO code for the Currency.
	Name	nvarchar(50)	Currency name.
	ModifiedDate	datetime	Date and time the record was last updated.

## Linked from



	Table	Join	Name / Description
	Sales.CountryRegionCurrency	<b>Sales.Currency</b> .CurrencyCode = Sales.CountryRegionCurrency.CurrencyCode	FK_CountryRegionCurrency_Currency_CurrencyCode: Foreign key constraint referencing Currency.CurrencyCode.
	Sales.CurrencyRate	<b>Sales.Currency</b> .CurrencyCode = Sales.CurrencyRate.FromCurrencyCode	FK_CurrencyRate_Currency_FromCurrencyCode: Foreign key constraint referencing Currency.FromCurrencyCode.

Table	Join	Name / Description
← Sales.CurrencyRate	<b>Sales.Currency</b> .CurrencyCode = Sales.CurrencyRate.ToCurrencyCode	FK_CurrencyRate_Currency_ToCurrencyCode: Foreign key constraint referencing Currency.FromCurrencyCode.

## Unique keys

Name	Columns	Description
🔑 PK_Currency_CurrencyCode	CurrencyCode	Primary key (clustered) constraint
🔑 AK_Currency_Name	Name	Unique nonclustered index.

### 9.1.4. Table: Sales.CurrencyRate

Currency exchange rates.

## Columns

Name	Data type	Description
🔑 CurrencyRateID	int	Primary key for CurrencyRate records.
CurrencyRateDate	datetime	Date and time the exchange rate was obtained.
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.

## Links to

Table	Join	Name / Description
➤ Sales.Currency	<b>Sales.CurrencyRate</b> .FromCurrencyCode = Sales.Currency.CurrencyCode	FK_CurrencyRate_Currency_FromCurrencyCode: Foreign key constraint referencing Currency.FromCurrencyCode.
➤ Sales.Currency	<b>Sales.CurrencyRate</b> .ToCurrencyCode = Sales.Currency.CurrencyCode	FK_CurrencyRate_Currency_ToCurrencyCode: Foreign key constraint referencing Currency.FromCurrencyCode.

## Linked from

Table	Join	Name / Description
← Sales.SalesOrderHeader	<b>Sales.CurrencyRate</b> .CurrencyRateID = Sales.SalesOrderHeader.CurrencyRateID	FK_SalesOrderHeader_CurrencyRate_CurrencyRateID: Foreign key constraint referencing CurrencyRate.CurrencyRateID.


## Unique keys

Name	Columns	Description
🔑 PK_CurrencyRate_CurrencyRateID	CurrencyRateID	Primary key (clustered) constraint
🔑 AK_CurrencyRate_CurrencyRateDate_FromCurrencyCode_ToCurrencyCode	CurrencyRateDate, FromCurrencyCode, ToCurrencyCode	Unique nonclustered index.




### 9.1.5. Table: Sales.Customer

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


## Columns

	Name	Data type	Description
	CustomerID	int	Primary key.
	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.
	AccountNumber	varchar(10)	Unique number identifying the customer assigned by the accounting system.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.




## Links to

	Table	Join	Name / Description
	Person.Person	<b>Sales.Customer</b> .PersonID = Person.Person.BusinessEntityID	FK_Customer_Person_PersonID: Foreign key constraint referencing Person.BusinessEntityID.
	Sales.SalesTerritory	<b>Sales.Customer</b> .TerritoryID = Sales.SalesTerritory.TerritoryID	FK_Customer_SalesTerritory_TerritoryID: Foreign key constraint referencing SalesTerritory.TerritoryID.
	Sales.Store	<b>Sales.Customer</b> .StoreID = Sales.Store.BusinessEntityID	FK_Customer_Store_StoreID: Foreign key constraint referencing Store.BusinessEntityID.

## Linked from

	Table	Join	Name / Description
	Sales.SalesOrderHeader	<b>Sales.Customer</b> .CustomerID = Sales.SalesOrderHeader.CustomerID	FK_SalesOrderHeader_Customer_CustomerID: Foreign key constraint referencing Customer.CustomerID.



## Unique keys

	Name	Columns	Description
	PK_Customer_CustomerID	CustomerID	Primary key (clustered) constraint
	AK_Customer_AccountNumber	AccountNumber	Unique nonclustered index.
	AK_Customer_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 9.1.6. Table: Sales.PersonCreditCard

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

## Columns

	Name	Data type	Description
	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.

## Links to


	Table	Join	Name / Description
	Sales.CreditCard	<b>Sales.PersonCreditCard</b> .CreditCardID = Sales.CreditCard.CreditCardID	FK_PersonCreditCard_CreditCard_CreditCardID: Foreign key constraint referencing CreditCard.CreditCardID.

Table	Join	Name / Description
➤ Person.Person	<b>Sales.PersonCreditCard</b> .BusinessEntityID = Person.Person.BusinessEntityID	FK_PersonCreditCard_Person_BusinessEntityID: Foreign key constraint referencing Person.BusinessEntityID.

## Unique keys

Name	Columns	Description
🔑 PK_PersonCreditCard_BusinessEntityID_CreditCardID	BusinessEntityID, CreditCardID	Primary key (clustered) constraint

### 9.1.7. Table: Sales.SalesOrderDetail

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

## Columns

Name	Data type	Description
🔑 SalesOrderID	int	Primary key. Foreign key to SalesOrderHeader.SalesOrderID.
🔑 SalesOrderDetailID	int	Primary key. One incremental unique number per product sold.
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.
LineTotal	numeric(38, 6)	Per product subtotal. Computed as UnitPrice * (1 - UnitPriceDiscount) * OrderQty.
rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
ModifiedDate	datetime	Date and time the record was last updated.


## Links to

Table	Join	Name / Description
➤ Production.Product	<b>Sales.SalesOrderDetail</b> .ProductID = Production.Product.ProductID	User-defined relation
➤ Sales.SalesOrderHeader	<b>Sales.SalesOrderDetail</b> .SalesOrderID = Sales.SalesOrderHeader.SalesOrderID	FK_SalesOrderDetail_SalesOrderHeader_SalesOrderID: Foreign key constraint referencing SalesOrderHeader.PurchaseOrderID.
➤ Sales.SpecialOfferProduct	<b>Sales.SalesOrderDetail</b> .SpecialOfferID = Sales.SpecialOfferProduct.SpecialOfferID, <b>Sales.SalesOrderDetail</b> .ProductID = Sales.SpecialOfferProduct.ProductID	FK_SalesOrderDetail_SpecialOfferProduct_SpecialOfferIDProductID: Foreign key constraint referencing SpecialOfferProduct.SpecialOfferIDProductID.

## Unique keys

Name	Columns	Description
🔑 PK_SalesOrderDetail_SalesOrderID_SalesOrderDetailID	SalesOrderID, SalesOrderDetailID	Primary key (clustered) constraint
🔑 AK_SalesOrderDetail_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.


## Triggers

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

### 9.1.8. Table: Sales.SalesOrderHeader

General sales order information.

## Columns

	Name	Data type	Description
	SalesOrderID	int	Primary key.
	RevisionNumber	tinyint	Incremental number to track changes to the sales order over time.
	OrderDate	datetime	Dates the sales order was created.
	DueDate	datetime	Date the order is due to the customer.
	ShipDate	datetime	Date the order was shipped to the customer.
	Status	tinyint	Order current status. 1 = In process; 2 = Approved; 3 = Backordered; 4 = Rejected; 5 = Shipped; 6 = Cancelled
	OnlineOrderFlag	bit	0 = Order placed by sales person. 1 = Order placed online by customer.
	SalesOrderNumber	nvarchar(25)	Unique sales order identification number.
	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.
	SubTotal	money	Sales subtotal. Computed as SUM(SalesOrderDetail.LineTotal)for the appropriate SalesOrderID.
	TaxAmt	money	Tax amount.
	Freight	money	Shipping cost.
	TotalDue	money	Total due from customer. Computed as Subtotal + TaxAmt + Freight.
	Comment	nvarchar(128)	Sales representative comments.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.



## Links to

	Table	Join	Name / Description
➤	Person.Address	<b>Sales.SalesOrderHeader</b> .BillToAddressID = Person.Address.AddressID	FK_SalesOrderHeader_Address_BillToAddressID: Foreign key constraint referencing Address.AddressID.
➤	Person.Address	<b>Sales.SalesOrderHeader</b> .ShipToAddressID = Person.Address.AddressID	FK_SalesOrderHeader_Address_ShipToAddressID: Foreign key constraint referencing Address.AddressID.
➤	Sales.CreditCard	<b>Sales.SalesOrderHeader</b> .CreditCardID = Sales.CreditCard.CreditCardID	FK_SalesOrderHeader_CreditCard_CreditCardID: Foreign key constraint referencing CreditCard.CreditCardID.
➤	Sales.CurrencyRate	<b>Sales.SalesOrderHeader</b> .CurrencyRateID = Sales.CurrencyRate.CurrencyRateID	FK_SalesOrderHeader_CurrencyRate_CurrencyRateID: Foreign key constraint referencing CurrencyRate.CurrencyRateID.
➤	Sales.Customer	<b>Sales.SalesOrderHeader</b> .CustomerID = Sales.Customer.CustomerID	FK_SalesOrderHeader_Customer_CustomerID: Foreign key constraint referencing Customer.CustomerID.
➤	Sales.SalesPerson	<b>Sales.SalesOrderHeader</b> .SalesPersonID = Sales.SalesPerson.BusinessEntityID	FK_SalesOrderHeader_SalesPerson_SalesPersonID: Foreign key constraint referencing SalesPerson.SalesPersonID.
➤	Sales.SalesTerritory	<b>Sales.SalesOrderHeader</b> .TerritoryID = Sales.SalesTerritory.TerritoryID	FK_SalesOrderHeader_SalesTerritory_TerritoryID: Foreign key constraint referencing SalesTerritory.TerritoryID.
➤	Purchasing.ShipMethod	<b>Sales.SalesOrderHeader</b> .ShipMethodID = Purchasing.ShipMethod.ShipMethodID	FK_SalesOrderHeader_ShipMethod_ShipMethodID: Foreign key constraint referencing ShipMethod.ShipMethodID.

## Linked from

	Table	Join	Name / Description
⬅	Sales.SalesOrderDetail	<b>Sales.SalesOrderHeader</b> .SalesOrderID = Sales.SalesOrderDetail.SalesOrderID	FK_SalesOrderDetail_SalesOrderHeader_SalesOrderID: Foreign key constraint referencing SalesOrderHeader.PurchaseOrderID.
⬅	Sales.SalesOrderHeaderSalesReason	<b>Sales.SalesOrderHeader</b> .SalesOrderID = Sales.SalesOrderHeaderSalesReason.SalesOrderID	FK_SalesOrderHeaderSalesReason_SalesOrderHeader_SalesOrderID: Foreign key constraint referencing SalesOrderHeader.SalesOrderID.

## Unique keys

	Name	Columns	Description
🔑	PK_SalesOrderHeader_SalesOrderID	SalesOrderID	Primary key (clustered) constraint
🔑	AK_SalesOrderHeader_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.
🔑	AK_SalesOrderHeader_SalesOrderNumber	SalesOrderNumber	Unique nonclustered index.



## Triggers

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



### 9.1.9. Table: Sales.SalesOrderHeaderSalesReason

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


## Columns

	Name	Data type	Description
	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.

## Links to

	Table	Join	Name / Description
	Sales.SalesOrderHeader	<b>Sales.SalesOrderHeaderSalesReason.S</b> alesOrderID = Sales.SalesOrderHeader.SalesOrderID	FK_SalesOrderHeaderSalesReason_SalesOrderHeader_SalesOrderID: Foreign key constraint referencing SalesOrderHeader.SalesOrderID.
	Sales.SalesReason	<b>Sales.SalesOrderHeaderSalesReason.S</b> alesReasonID = Sales.SalesReason.SalesReasonID	FK_SalesOrderHeaderSalesReason_SalesReason_SalesReasonID: Foreign key constraint referencing SalesReason.SalesReasonID.


## Unique keys

	Name	Columns	Description
	PK_SalesOrderHeaderSalesReason_ SalesOrderID_SalesReasonID	SalesOrderID, SalesReasonID	Primary key (clustered) constraint



### 9.1.10. Table: Sales.SalesPerson

Sales representative current information.

## Columns

	Name	Data type	Description
	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.
	CommissionPct	smallmoney	Commision percent received per sale.
	SalesYTD	money	Sales total year to date.
	SalesLastYear	money	Sales total of previous year.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

## Links to

	Table	Join	Name / Description
	HumanResources.Employee	<b>Sales.SalesPerson.BusinessEntityID =</b> HumanResources.Employee.BusinessE ntityID	FK_SalesPerson_Employee_BusinessEntityID: Foreign key constraint referencing Employee.EmployeeID.
	Sales.SalesTerritory	<b>Sales.SalesPerson.TerritoryID =</b> Sales.SalesTerritory.TerritoryID	FK_SalesPerson_SalesTerritory_TerritoryID: Foreign key constraint referencing SalesTerritory.TerritoryID.

Linked from

Table		Join	Name / Description
←	Sales.SalesOrderHeader	<b>Sales.SalesPerson</b> .BusinessEntityID = Sales.SalesOrderHeader.SalesPersonID	FK_SalesOrderHeader_SalesPerson_SalesPersonID: Foreign key constraint referencing SalesPerson.SalesPersonID.
←	Sales.SalesPersonQuotaHistory	<b>Sales.SalesPerson</b> .BusinessEntityID = Sales.SalesPersonQuotaHistory.BusinessEntityID	FK_SalesPersonQuotaHistory_SalesPerson_BusinessEntityID: Foreign key constraint referencing SalesPerson.SalesPersonID.
←	Sales.SalesTerritoryHistory	<b>Sales.SalesPerson</b> .BusinessEntityID = Sales.SalesTerritoryHistory.BusinessEntityID	FK_SalesTerritoryHistory_SalesPerson_BusinessEntityID: Foreign key constraint referencing SalesPerson.SalesPersonID.
←	Sales.Store	<b>Sales.SalesPerson</b> .BusinessEntityID = Sales.Store.SalesPersonID	FK_Store_SalesPerson_SalesPersonID: Foreign key constraint referencing SalesPerson.SalesPersonID

Unique keys

Name		Columns	Description
🔑	PK_SalesPerson_BusinessEntityID	BusinessEntityID	Primary key (clustered) constraint
🔑	AK_SalesPerson_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 9.1.11. Table: Sales.SalesPersonQuotaHistory

Sales performance tracking.

Columns

Name		Data type	Description
🔑	BusinessEntityID	int	Sales person identification number. Foreign key to SalesPerson.BusinessEntityID.
🔑	QuotaDate	datetime	Sales quota date.
	SalesQuota	money	Sales quota amount.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

Links to

Table		Join	Name / Description
➤	Sales.SalesPerson	<b>Sales.SalesPersonQuotaHistory</b> .BusinessEntityID = Sales.SalesPerson.BusinessEntityID	FK_SalesPersonQuotaHistory_SalesPerson_BusinessEntityID: Foreign key constraint referencing SalesPerson.SalesPersonID.


Unique keys

Name		Columns	Description
🔑	PK_SalesPersonQuotaHistory_BusinessEntityID_QuotaDate	BusinessEntityID, QuotaDate	Primary key (clustered) constraint
🔑	AK_SalesPersonQuotaHistory_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.


### 9.1.12. Table: Sales.SalesReason

Lookup table of customer purchase reasons.

## Columns

	Name	Data type	Description
	SalesReasonID	int	Primary key for SalesReason records.
	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.

## Linked from

	Table	Join	Name / Description
	Sales.SalesOrderHeaderSalesReason	<b>Sales.SalesReason.</b> SalesReasonID = Sales.SalesOrderHeaderSalesReason.SalesReasonID	FK_SalesOrderHeaderSalesReason_SalesReason_SalesReasonID: Foreign key constraint referencing SalesReason.SalesReasonID.


## Unique keys

	Name	Columns	Description
	PK_SalesReason_SalesReasonID	SalesReasonID	Primary key (clustered) constraint


### 9.1.13. Table: Sales.SalesTaxRate

#### Tax rate lookup table.




## Columns

	Name	Data type	Description
	SalesTaxRateID	int	Primary key for SalesTaxRate records.
	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.
	Name	nvarchar(50)	Tax rate description.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

## Links to

	Table	Join	Name / Description
	Person.StateProvince	<b>Sales.SalesTaxRate.</b> StateProvinceID = Person.StateProvince.StateProvinceID	FK_SalesTaxRate_StateProvince_StateProvinceID: Foreign key constraint referencing StateProvince.StateProvinceID.


## Unique keys

	Name	Columns	Description
	PK_SalesTaxRate_SalesTaxRateID	SalesTaxRateID	Primary key (clustered) constraint
	AK_SalesTaxRate_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.
	AK_SalesTaxRate_StateProvinceID_TaxType	StateProvinceID, TaxType	Unique nonclustered index.


### 9.1.14. Table: Sales.SalesTerritory

Sales territory lookup table.






#### Columns

	Name	Data type	Description
	TerritoryID	int	Primary key for SalesTerritory records.
	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.
	SalesLastYear	money	Sales in the territory the previous year.
	CostYTD	money	Business costs in the territory year to date.
	CostLastYear	money	Business costs in the territory the previous year.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.




#### Links to

	Table	Join	Name / Description
	Person.CountryRegion	<b>Sales.SalesTerritory</b> .CountryRegionCode = Person.CountryRegion.CountryRegionCode	FK_SalesTerritory_CountryRegion_CountryRegionCode: Foreign key constraint referencing CountryRegion.CountryRegionCode.

#### Linked from

	Table	Join	Name / Description
	Sales.Customer	<b>Sales.SalesTerritory</b> .TerritoryID = Sales.Customer.TerritoryID	FK_Customer_SalesTerritory_TerritoryID: Foreign key constraint referencing SalesTerritory.TerritoryID.
	Sales.SalesOrderHeader	<b>Sales.SalesTerritory</b> .TerritoryID = Sales.SalesOrderHeader.TerritoryID	FK_SalesOrderHeader_SalesTerritory_TerritoryID: Foreign key constraint referencing SalesTerritory.TerritoryID.
	Sales.SalesPerson	<b>Sales.SalesTerritory</b> .TerritoryID = Sales.SalesPerson.TerritoryID	FK_SalesPerson_SalesTerritory_TerritoryID: Foreign key constraint referencing SalesTerritory.TerritoryID.
	Sales.SalesTerritoryHistory	<b>Sales.SalesTerritory</b> .TerritoryID = Sales.SalesTerritoryHistory.TerritoryID	FK_SalesTerritoryHistory_SalesTerritory_TerritoryID: Foreign key constraint referencing SalesTerritory.TerritoryID.
	Person.StateProvince	<b>Sales.SalesTerritory</b> .TerritoryID = Person.StateProvince.TerritoryID	FK_StateProvince_SalesTerritory_TerritoryID: Foreign key constraint referencing SalesTerritory.TerritoryID.




#### Unique keys

	Name	Columns	Description
	PK_SalesTerritory_TerritoryID	TerritoryID	Primary key (clustered) constraint
	AK_SalesTerritory_Name	Name	Unique nonclustered index.
	AK_SalesTerritory_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.



### 9.1.15. Table: Sales.SalesTerritoryHistory

Sales representative transfers to other sales territories.



## Columns

	Name	Data type	Description
	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 representative started work in the territory.
	EndDate	datetime	Date the sales representative left work in the territory.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

## Links to

	Table	Join	Name / Description
	Sales.SalesPerson	<b>Sales.SalesTerritoryHistory</b> .BusinessEntityID = Sales.SalesPerson.BusinessEntityID	FK_SalesTerritoryHistory_SalesPerson_BusinessEntityID: Foreign key constraint referencing SalesPerson.SalesPersonID.
	Sales.SalesTerritory	<b>Sales.SalesTerritoryHistory</b> .TerritoryID = Sales.SalesTerritory.TerritoryID	FK_SalesTerritoryHistory_SalesTerritory_TerritoryID: Foreign key constraint referencing SalesTerritory.TerritoryID.


## Unique keys

	Name	Columns	Description
	PK_SalesTerritoryHistory_BusinessEntityID_StartDate_TerritoryID	BusinessEntityID, StartDate, TerritoryID	Primary key (clustered) constraint
	AK_SalesTerritoryHistory_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.


### 9.1.16. Table: Sales.ShoppingCartItem

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


## Columns

	Name	Data type	Description
	ShoppingCartItemID	int	Primary key for ShoppingCartItem records.
	ShoppingCartID	nvarchar(50)	Shopping cart identification number.
	Quantity	int	Product quantity ordered.
	ProductID	int	Product ordered. Foreign key to Product.ProductID.
	DateCreated	datetime	Date the time the record was created.
	ModifiedDate	datetime	Date and time the record was last updated.

## Links to

	Table	Join	Name / Description
	Production.Product	<b>Sales.ShoppingCartItem</b> .ProductID = Production.Product.ProductID	FK_ShoppingCartItem_Product_ProductID: Foreign key constraint referencing Product.ProductID.


## Unique keys

	Name	Columns	Description
	PK_ShoppingCartItem_ShoppingCartItemID	ShoppingCartItemID	Primary key (clustered) constraint


### 9.1.17. Table: Sales.SpecialOffer

Sale discounts lookup table.



#### Columns

	Name	Data type	Description
	SpecialOfferID	int	Primary key for SpecialOffer records.
	Description	nvarchar(255)	Discount description.
	DiscountPct	smallmoney	Discount percentage.
	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.
	MaxQty	int	Maximum discount percent allowed.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

#### Linked from

	Table	Join	Name / Description
	Sales.SpecialOfferProduct	<b>Sales.SpecialOffer</b> .SpecialOfferID = Sales.SpecialOfferProduct.SpecialOfferID	FK_SpecialOfferProduct_SpecialOffer_SpecialOfferID: Foreign key constraint referencing SpecialOffer.SpecialOfferID.



#### Unique keys

	Name	Columns	Description
	PK_SpecialOffer_SpecialOfferID	SpecialOfferID	Primary key (clustered) constraint
	AK_SpecialOffer_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 9.1.18. Table: Sales.SpecialOfferProduct

Cross-reference table mapping products to special offer discounts.

#### Columns

	Name	Data type	Description
	SpecialOfferID	int	Primary key for SpecialOfferProduct records.
	ProductID	int	Product identification number. Foreign key to Product.ProductID.
	rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
	ModifiedDate	datetime	Date and time the record was last updated.

#### Links to


	Table	Join	Name / Description
	Production.Product	<b>Sales.SpecialOfferProduct</b> .ProductID = Production.Product.ProductID	FK_SpecialOfferProduct_Product_ProductID: Foreign key constraint referencing Product.ProductID.

Table	Join	Name / Description
➤ Sales.SpecialOffer	<b>Sales.SpecialOfferProduct.SpecialOfferID</b> = Sales.SpecialOffer.SpecialOfferID	FK_SpecialOfferProduct_SpecialOffer_SpecialOfferID: Foreign key constraint referencing SpecialOffer.SpecialOfferID.

#### Linked from

Table	Join	Name / Description
⬅ Sales.SalesOrderDetail	<b>Sales.SpecialOfferProduct.SpecialOfferID</b> = Sales.SalesOrderDetail.SpecialOfferID, <b>Sales.SpecialOfferProduct.ProductID</b> = Sales.SalesOrderDetail.ProductID	FK_SalesOrderDetail_SpecialOfferProduct_SpecialOfferIDProductID: Foreign key constraint referencing SpecialOfferProduct.SpecialOfferIDProductID.

#### Unique keys

Name	Columns	Description
🔑 PK_SpecialOfferProduct_SpecialOfferID_ProductID	SpecialOfferID, ProductID	Primary key (clustered) constraint
🔑 AK_SpecialOfferProduct_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

### 9.1.19. Table: Sales.Store

Customers (resellers) of Adventure Works products.

#### Columns

Name	Data type	Description
🔑 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 information about the store such as the number of employees, annual sales and store type.
rowguid	uniqueidentifier	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.
ModifiedDate	datetime	Date and time the record was last updated.

#### Links to

Table	Join	Name / Description
➤ Person.BusinessEntity	<b>Sales.Store.BusinessEntityID</b> = Person.BusinessEntity.BusinessEntityID	FK_Store_BusinessEntity_BusinessEntityID: Foreign key constraint referencing BusinessEntity.BusinessEntityID
➤ Sales.SalesPerson	<b>Sales.Store.SalesPersonID</b> = Sales.SalesPerson.BusinessEntityID	FK_Store_SalesPerson_SalesPersonID: Foreign key constraint referencing SalesPerson.SalesPersonID

#### Linked from

Table	Join	Name / Description
⬅ Sales.Customer	<b>Sales.Store.BusinessEntityID</b> = Sales.Customer.StoreID	FK_Customer_Store_StoreID: Foreign key constraint referencing Store.BusinessEntityID.

#### Unique keys

Name	Columns	Description
🔑 PK_Store_BusinessEntityID	BusinessEntityID	Primary key (clustered) constraint



Name		Columns	Description
	AK_Store_rowguid	rowguid	Unique nonclustered index. Used to support replication samples.

## 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	Description
	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)	
	AddressLine1	nvarchar(60)	
	AddressLine2	nvarchar(60)	
	City	nvarchar(30)	
	StateProvinceName	nvarchar(50)	
	PostalCode	nvarchar(15)	
	CountryRegionName	nvarchar(50)	
	Demographics	xml	

### 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	Description
	BusinessEntityID	int	
	TotalPurchaseYTD	money	
	DateFirstPurchase	datetime	
	BirthDate	datetime	
	MaritalStatus	nvarchar(1)	
	YearlyIncome	nvarchar(30)	
	Gender	nvarchar(1)	

	Name	Data type	Description
	TotalChildren	int	
	NumberChildrenAtHome	int	
	Education	nvarchar(30)	
	Occupation	nvarchar(30)	
	HomeOwnerFlag	bit	
	NumberCarsOwned	int	

### 9.2.3. View: Sales.vSalesPerson

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

#### Columns

	Name	Data type	Description
	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)	
	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	Description
	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	Description
	BusinessEntityID	int	
	Name	nvarchar(50)	
	AddressType	nvarchar(50)	
	AddressLine1	nvarchar(60)	
	AddressLine2	nvarchar(60)	
	City	nvarchar(30)	
	StateProvinceName	nvarchar(50)	
	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	Description
	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)	

	Name	Data type	Description
	EmailPromotion	int	

### 9.2.7. View: Sales.vStoreWithDemographics

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

#### Columns

	Name	Data type	Description
	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 <code>ufnLeadingZeros</code> . 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	Description
	SystemInformationID	tinyint	Primary key for AWBuildVersion records.
	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.


##### Unique keys

	Name	Columns	Description
	PK_AWBuildVersion_SystemInformationID	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	Description
	DatabaseLogID	int	Primary key for DatabaseLog records.
	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

	Name	Columns	Description
	PK_DatabaseLog_DatabaseLogID	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	Description
	ErrorLogID	int	Primary key for ErrorLog records.
	ErrorTime	datetime	The date and time at which the error occurred.
	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


	Name	Columns	Description
	PK_ErrorLog_ErrorLogID	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
	ErrorLogID	int	Output parameter for the stored procedure uspLogError. Contains the 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.