AdventureWorks2012

AdventureWorks 2012 Sample OLTP Database

(Last updated on Mon, Jul 25th, 2016 at 12:56 AM)

Tables:

Customer credit card information.

Views:

Procedures:

Functions:

Tables:

Table dbo.AWBuildVersion *(1 row)*

Current version number of the AdventureWorks 2012 sample database.

	Column	Data Type	Identity	Nullable	Default
PK	SystemInformationID	tinyint	X		
	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			getdate()
	Date and time the record was last updated.				

Indexes:

PK_AWBuildVersion_SystemInformationID *(Primary Key) (Clustered) (100% Selectivity)*

Primary key (clustered) constraint

SystemInformationID

Table dbo.DatabaseLog *(1,597 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK	DatabaseLogID	int	X		
	Primary key for DatabaseLog records.				
	PostTime	datetime			
	The date and time the DDL change occurred.				
	DatabaseUser	sysname(nvarchar(128))			
	The user who implemented the DDL change.				
	Event	sysname(nvarchar(128))			
	The type of DDL statement that was executed.				
	Schema	sysname(nvarchar(128))		X	
	The schema to which the changed object belongs.				
	Object	sysname(nvarchar(128))		X	
	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.				

Indexes:

PK_DatabaseLog_DatabaseLogID *(Primary Key) (0.06% Selectivity)*

Primary key (nonclustered) constraint

DatabaseLogID

Table dbo.ErrorLog *(0 rows)*

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.

	Column	Data Type	Identity	Nullable	Default
PK	ErrorLogID	int	X		
	Primary key for ErrorLog records.				
	ErrorTime	datetime			getdate()
	The date and time at which the error occurred.				
	UserName	sysname(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		X	
	The severity of the error that occurred.				
	ErrorState	int		X	
	The state number of the error that occurred.				
	ErrorProcedure	nvarchar(126)		X	
	The name of the stored procedure or trigger where the error occurred.				
	ErrorLine	int		X	
	The line number at which the error occurred.				
	ErrorMessage	nvarchar(4000)			
	The message text of the error that occurred.				

Indexes:

PK_ErrorLog_ErrorLogID *(Primary Key) (Clustered)*

Primary key (clustered) constraint

ErrorLogID

Used by:

Procedure dbo.uspLogError

ErrorLine
ErrorMessage
ErrorNumber
ErrorProcedure
ErrorSeverity
ErrorState
UserName

Table HumanResources.Department *(16 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK	DepartmentID	smallint	X		
	Primary key for Department records.				
UK	Name	Name(nvarchar(50))			
	Name of the department.				
	GroupName	Name(nvarchar(50))			
	Name of the group to which the department belongs.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

> **PK_Department_DepartmentID** *(Primary Key) (Clustered) (6.25% Selectivity)*
>
> > *Primary key (clustered) constraint*
> >
> > DepartmentID
>
> **AK_Department_Name** *(Unique) (6.25% Selectivity)*
>
> > *Unique nonclustered index.*
> >
> > Name

Referenced by:

> **HumanResources.EmployeeDepartmentHistory** *(DepartmentID)*

Used by:

> **View HumanResources.vEmployeeDepartment**
>
> > DepartmentID
> > GroupName
> > Name
>
> **View HumanResources.vEmployeeDepartmentHistory**
>
> > DepartmentID
> > GroupName
> > Name

Table HumanResources.Employee *(290 rows)*

Employee information such as salary, department, and title.

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Primary key for Employee records. Foreign key to BusinessEntity.BusinessEntityID.				
UK	NationalIDNumber	nvarchar(15)			
	Unique national identification number such as a social security number.				
UK	LoginID	nvarchar(256)			
	Network login.				
	OrganizationNode	hierarchyid		X	
	Where the employee is located in corporate hierarchy.				
	OrganizationLevel	smallint		X	
	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	Flag(bit)			1
	Job classification. 0 = Hourly, not exempt from collective bargaining. 1 = Salaried, exempt from collective bargaining.				
	VacationHours	smallint			0
	Number of available vacation hours.				
	SickLeaveHours	smallint			0
	Number of available sick leave hours.				
	CurrentFlag	Flag(bit)			1
	0 = Inactive, 1 = Active				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_Employee_BusinessEntityID *(Primary Key) (Clustered) (0.34% Selectivity)*

    Primary key (clustered) constraint

    BusinessEntityID

AK_Employee_LoginID *(Unique) (0.34% Selectivity)*

    Unique nonclustered index.

    LoginID

AK_Employee_NationalIDNumber *(Unique) (0.34% Selectivity)*

    Unique nonclustered index.

    NationalIDNumber

AK_Employee_rowguid *(Unique) (0.34% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

IX_Employee_OrganizationLevel_OrganizationNode *(0.34% Selectivity)*

Unique nonclustered index.

OrganizationLevel
OrganizationNode

IX_Employee_OrganizationNode *(0.34% Selectivity)*

Unique nonclustered index.

OrganizationNode

References:

Person.Person *(BusinessEntityID)*

Referenced by:

HumanResources.EmployeeDepartmentHistory *(BusinessEntityID)*

HumanResources.EmployeePayHistory *(BusinessEntityID)*

HumanResources.JobCandidate *(BusinessEntityID)*

Production.Document *(Owner -> BusinessEntityID)*

Purchasing.PurchaseOrderHeader *(EmployeeID -> BusinessEntityID)*

Sales.SalesPerson *(BusinessEntityID)*

Triggers:

dEmployee *(Instead Of Delete)*

> *INSTEAD OF DELETE trigger which keeps Employees from being deleted.*

Used by:

Function dbo.ufnGetContactInformation

BusinessEntityID
JobTitle

Procedure dbo.uspGetEmployeeManagers

BusinessEntityID
JobTitle
OrganizationNode

Procedure dbo.uspGetManagerEmployees

BusinessEntityID
OrganizationNode

Procedure HumanResources.uspUpdateEmployeeHireInfo

BusinessEntityID
CurrentFlag
HireDate
JobTitle

Procedure HumanResources.uspUpdateEmployeeLogin

BusinessEntityID
CurrentFlag
HireDate
JobTitle

LoginID
OrganizationNode

Procedure HumanResources.uspUpdateEmployeePersonalInfo

BirthDate
BusinessEntityID
Gender
MaritalStatus
NationalIDNumber

View HumanResources.vEmployee

BusinessEntityID
JobTitle

View HumanResources.vEmployeeDepartment

BusinessEntityID
JobTitle

View HumanResources.vEmployeeDepartmentHistory

BusinessEntityID

View Sales.vSalesPerson

BusinessEntityID
JobTitle

View Sales.vSalesPersonSalesByFiscalYears

BusinessEntityID
JobTitle

Table HumanResources.EmployeeDepartmentHistory *(296 rows)*

Employee department transfers.

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Employee identification number. Foreign key to Employee.BusinessEntityID.				
PK, FK	DepartmentID	smallint			
	Department in which the employee worked including currently. Foreign key to Department.DepartmentID.				
PK, FK	ShiftID	tinyint			
	Identifies which 8-hour shift the employee works. Foreign key to Shift.Shift.ID.				
PK	StartDate	date			
	Date the employee started work in the department.				
	EndDate	date		X	
	Date the employee left the department. NULL = Current department.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_EmployeeDepartmentHistory_BusinessEntityID_StartDate_DepartmentID *(Primary Key) (Clustered) (0.34% Selectivity)*

Primary key (clustered) constraint

BusinessEntityID
StartDate
DepartmentID
ShiftID

IX_EmployeeDepartmentHistory_DepartmentID *(6.25% Selectivity)*

Nonclustered index.

DepartmentID

IX_EmployeeDepartmentHistory_ShiftID *(33.33% Selectivity)*

Nonclustered index.

ShiftID

References:

HumanResources.Department *(DepartmentID)*

HumanResources.Employee *(BusinessEntityID)*

HumanResources.Shift *(ShiftID)*

Used by:

View HumanResources.vEmployeeDepartment

BusinessEntityID
DepartmentID
EndDate
StartDate

View HumanResources.vEmployeeDepartmentHistory

BusinessEntityID
DepartmentID
EndDate
ShiftID

StartDate

Table HumanResources.EmployeePayHistory *(316 rows)*

Employee pay history.

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Employee identification number. Foreign key to Employee.BusinessEntityID.				
PK	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			getdate()
	Date and time the record was last updated.				

Indexes:

PK_EmployeePayHistory_BusinessEntityID_RateChangeDate *(Primary Key) (Clustered) (0.32% Selectivity)*

> *Primary key (clustered) constraint*

> BusinessEntityID
> RateChangeDate

References:

> **HumanResources.Employee** *(BusinessEntityID)*

Used by:

> **Procedure HumanResources.uspUpdateEmployeeHireInfo**

> BusinessEntityID
> PayFrequency
> Rate
> RateChangeDate

Table HumanResources.JobCandidate *(13 rows)*

Résumés submitted to Human Resources by job applicants.

	Column	Data Type	Identity	Nullable	Default
PK	JobCandidateID	int	X		
	Primary key for JobCandidate records.				
FK	BusinessEntityID	int		X	
	Employee identification number if applicant was hired. Foreign key to Employee.BusinessEntityID.				
	Resume	xml		X	
	Résumé in XML format.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_JobCandidate_JobCandidateID *(Primary Key) (Clustered) (7.69% Selectivity)*

Primary key (clustered) constraint

JobCandidateID

IX_JobCandidate_BusinessEntityID *(33.33% Selectivity)*

Nonclustered index.

BusinessEntityID

References:

HumanResources.Employee *(BusinessEntityID)*

Used by:

Procedure dbo.uspSearchCandidateResumes

JobCandidateID
Resume

View HumanResources.vJobCandidate

BusinessEntityID
JobCandidateID
ModifiedDate
Resume

View HumanResources.vJobCandidateEducation

JobCandidateID
Resume

View HumanResources.vJobCandidateEmployment

JobCandidateID
Resume

Table HumanResources.Shift *(3 rows)*

Work shift lookup table.

	Column	Data Type	Identity	Nullable	Default
PK	ShiftID	tinyint	X		
	Primary key for Shift records.				
UK	Name	Name(nvarchar(50))			
	Shift description.				
UK	StartTime	time			
	Shift start time.				
UK	EndTime	time			
	Shift end time.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

> **PK_Shift_ShiftID** *(Primary Key) (Clustered) (33.33% Selectivity)*
>
> > *Primary key (clustered) constraint*
> >
> > ShiftID
>
> **AK_Shift_Name** *(Unique) (33.33% Selectivity)*
>
> > *Unique nonclustered index.*
> >
> > Name
>
> **AK_Shift_StartTime_EndTime** *(Unique) (33.33% Selectivity)*
>
> > *Unique nonclustered index.*
> >
> > StartTime
> > EndTime

Referenced by:

> **HumanResources.EmployeeDepartmentHistory** *(ShiftID)*

Used by:

> **View HumanResources.vEmployeeDepartmentHistory**
>
> > Name
> > ShiftID

Table Person.Address *(19,614 rows)*

Street address information for customers, employees, and vendors.

	Column	Data Type	Identity	Nullable	Default
PK	AddressID	int	X		
	Primary key for Address records.				
UK	AddressLine1	nvarchar(60)			
	First street address line.				
UK	AddressLine2	nvarchar(60)		X	
	Second street address line.				
UK	City	nvarchar(30)			
	Name of the city.				
UK, FK	StateProvinceID	int			
	Unique identification number for the state or province. Foreign key to StateProvince table.				
UK	PostalCode	nvarchar(15)			
	Postal code for the street address.				
	SpatialLocation	geography		X	
	Latitude and longitude of this address.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_Address_AddressID *(Primary Key) (Clustered) (0.01% Selectivity)*

Primary key (clustered) constraint

AddressID

AK_Address_rowguid *(Unique) (0.01% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

IX_Address_AddressLine1_AddressLine2_City_StateProvinceID_PostalCode *(Unique) (0.01% Selectivity)*

Nonclustered index.

AddressLine1
AddressLine2
City
StateProvinceID
PostalCode

IX_Address_StateProvinceID *(1.35% Selectivity)*

Nonclustered index.

StateProvinceID

References:

Person.StateProvince *(StateProvinceID)*

Referenced by:

Person.BusinessEntityAddress *(AddressID)*

Sales.SalesOrderHeader *(BillToAddressID -> AddressID)*

Sales.SalesOrderHeader *(ShipToAddressID -> AddressID)*

Used by:

View HumanResources.vEmployee

    AddressID
    AddressLine1
    AddressLine2
    City
    PostalCode
    StateProvinceID

View Purchasing.vVendorWithAddresses

    AddressID
    AddressLine1
    AddressLine2
    City
    PostalCode
    StateProvinceID

View Sales.vIndividualCustomer

    AddressID
    AddressLine1
    AddressLine2
    City
    PostalCode
    StateProvinceID

View Sales.vSalesPerson

    AddressID
    AddressLine1
    AddressLine2
    City
    PostalCode
    StateProvinceID

View Sales.vStoreWithAddresses

    AddressID
    AddressLine1
    AddressLine2
    City
    PostalCode
    StateProvinceID

Table Person.AddressType *(6 rows)*

Types of addresses stored in the Address table.

	Column	Data Type	Identity	Nullable	Default
PK	AddressTypeID	int	X		
	Primary key for AddressType records.				
UK	Name	Name(nvarchar(50))			
	Address type description. For example, Billing, Home, or Shipping.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

> **PK_AddressType_AddressTypeID** *(Primary Key) (Clustered) (16.67% Selectivity)*
>
> > *Primary key (clustered) constraint*
> >
> > AddressTypeID
>
> **AK_AddressType_Name** *(Unique) (16.67% Selectivity)*
>
> > *Unique nonclustered index.*
> >
> > Name
>
> **AK_AddressType_rowguid** *(Unique) (16.67% Selectivity)*
>
> > *Unique nonclustered index. Used to support replication samples.*
> >
> > rowguid

Referenced by:

> **Person.BusinessEntityAddress** *(AddressTypeID)*

Used by:

> **View Purchasing.vVendorWithAddresses**
>
> > AddressTypeID
> > Name
>
> **View Sales.vIndividualCustomer**
>
> > AddressTypeID
> > Name
>
> **View Sales.vStoreWithAddresses**
>
> > AddressTypeID
> > Name

Table Person.BusinessEntity *(20,777 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK	BusinessEntityID	int	X		
	Primary key for all customers, vendors, and employees.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_BusinessEntity_BusinessEntityID *(Primary Key) (Clustered) (< 0.01% Selectivity)*

Primary key (clustered) constraint

BusinessEntityID

AK_BusinessEntity_rowguid *(Unique) (< 0.01% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

Referenced by:

Person.BusinessEntityAddress *(BusinessEntityID)*

Person.BusinessEntityContact *(BusinessEntityID)*

Person.Person *(BusinessEntityID)*

Purchasing.Vendor *(BusinessEntityID)*

Sales.Store *(BusinessEntityID)*

Table Person.BusinessEntityAddress *(19,614 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Primary key. Foreign key to BusinessEntity.BusinessEntityID.				
PK, FK	AddressID	int			
	Primary key. Foreign key to Address.AddressID.				
PK, FK	AddressTypeID	int			
	Primary key. Foreign key to AddressType.AddressTypeID.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_BusinessEntityAddress_BusinessEntityID_AddressID_AddressTypeID *(Primary Key) (Clustered) (0.01% Selectivity)*

Primary key (clustered) constraint

BusinessEntityID
AddressID
AddressTypeID

AK_BusinessEntityAddress_rowguid *(Unique) (0.01% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

IX_BusinessEntityAddress_AddressID *(0.01% Selectivity)*

Nonclustered index.

AddressID

IX_BusinessEntityAddress_AddressTypeID *(33.33% Selectivity)*

Nonclustered index.

AddressTypeID

References:

Person.Address *(AddressID)*

Person.AddressType *(AddressTypeID)*

Person.BusinessEntity *(BusinessEntityID)*

Used by:

View HumanResources.vEmployee

AddressID
BusinessEntityID

View Purchasing.vVendorWithAddresses

AddressID
AddressTypeID
BusinessEntityID

View Sales.vIndividualCustomer

    AddressID
    AddressTypeID
    BusinessEntityID

View Sales.vSalesPerson

    AddressID
    BusinessEntityID

View Sales.vStoreWithAddresses

    AddressID
    AddressTypeID
    BusinessEntityID

Table Person.BusinessEntityContact *(909 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Primary key. Foreign key to BusinessEntity.BusinessEntityID.				
PK, FK	PersonID	int			
	Primary key. Foreign key to Person.BusinessEntityID.				
PK, FK	ContactTypeID	int			
	Primary key. Foreign key to ContactType.ContactTypeID.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_BusinessEntityContact_BusinessEntityID_PersonID_ContactTypeID *(Primary Key) (Clustered) (0.11% Selectivity)*

Primary key (clustered) constraint

BusinessEntityID
PersonID
ContactTypeID

AK_BusinessEntityContact_rowguid *(Unique) (0.11% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

IX_BusinessEntityContact_ContactTypeID *(14.29% Selectivity)*

Nonclustered index.

ContactTypeID

IX_BusinessEntityContact_PersonID *(0.11% Selectivity)*

Nonclustered index.

PersonID

References:

Person.BusinessEntity *(BusinessEntityID)*

Person.ContactType *(ContactTypeID)*

Person.Person *(PersonID -> BusinessEntityID)*

Used by:

Function dbo.ufnGetContactInformation

BusinessEntityID
ContactTypeID
PersonID

View Purchasing.vVendorWithContacts

BusinessEntityID
ContactTypeID
PersonID

View Sales.vStoreWithContacts

       BusinessEntityID
       ContactTypeID
       PersonID

Table Person.ContactType *(20 rows)*

Lookup table containing the types of business entity contacts.

	Column	Data Type	Identity	Nullable	Default
PK	ContactTypeID	int	X		
	Primary key for ContactType records.				
UK	Name	Name(nvarchar(50))			
	Contact type description.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ContactType_ContactTypeID *(Primary Key) (Clustered) (5% Selectivity)*

Primary key (clustered) constraint

ContactTypeID

AK_ContactType_Name *(Unique) (5% Selectivity)*

Unique nonclustered index.

Name

Referenced by:

Person.BusinessEntityContact *(ContactTypeID)*

Used by:

Function dbo.ufnGetContactInformation

ContactTypeID
Name

View Purchasing.vVendorWithContacts

ContactTypeID
Name

View Sales.vStoreWithContacts

ContactTypeID
Name

Table Person.CountryRegion *(238 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK	CountryRegionCode	nvarchar(3)			
	ISO standard code for countries and regions.				
UK	Name	Name(nvarchar(50))			
	Country or region name.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_CountryRegion_CountryRegionCode *(Primary Key) (Clustered) (0.42% Selectivity)*

> *Primary key (clustered) constraint*

> CountryRegionCode

AK_CountryRegion_Name *(Unique) (0.42% Selectivity)*

> *Unique nonclustered index.*

> Name

Referenced by:

Person.StateProvince *(CountryRegionCode)*

Sales.CountryRegionCurrency *(CountryRegionCode)*

Sales.SalesTerritory *(CountryRegionCode)*

Used by:

View HumanResources.vEmployee

> CountryRegionCode
> Name

View Person.vStateProvinceCountryRegion

> CountryRegionCode
> Name

View Purchasing.vVendorWithAddresses

> CountryRegionCode
> Name

View Sales.vIndividualCustomer

> CountryRegionCode
> Name

View Sales.vSalesPerson

> CountryRegionCode
> Name

View Sales.vStoreWithAddresses

> CountryRegionCode
> Name

Table Person.EmailAddress *(19,972 rows)*

Where to send a person email.

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Primary key. Person associated with this email address. Foreign key to Person.BusinessEntityID				
PK	EmailAddressID	int	X		
	Primary key. ID of this email address.				
	EmailAddress	nvarchar(50)		X	
	E-mail address for the person.				
	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_EmailAddress_BusinessEntityID_EmailAddressID *(Primary Key) (Clustered) (0.01% Selectivity)*

Primary key (clustered) constraint

BusinessEntityID
EmailAddressID

IX_EmailAddress_EmailAddress *(0.01% Selectivity)*

Nonclustered index.

EmailAddress

References:

Person.Person *(BusinessEntityID)*

Used by:

View HumanResources.vEmployee

BusinessEntityID
EmailAddress

View Purchasing.vVendorWithContacts

BusinessEntityID
EmailAddress

View Sales.vIndividualCustomer

BusinessEntityID
EmailAddress

View Sales.vSalesPerson

BusinessEntityID
EmailAddress

View Sales.vStoreWithContacts

BusinessEntityID
EmailAddress

Table Person.Password *(19,972 rows)*

One way hashed authentication information

	Column	Data Type	Identity	Nullable	Default
PK, FK	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			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

> **PK_Password_BusinessEntityID** *(Primary Key) (Clustered) (0.01% Selectivity)*
>
> > *Primary key (clustered) constraint*
> >
> > BusinessEntityID

References:

> **Person.Person** *(BusinessEntityID)*

Table Person.Person (19,972 rows)

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

	Column	Data Type	Identity	Nullable	Default
PK, FK	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				
	NameStyle	NameStyle(bit)			0
	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)		X	
	A courtesy title. For example, Mr. or Ms.				
	FirstName	Name(nvarchar(50))			
	First name of the person.				
	MiddleName	Name(nvarchar(50))		X	
	Middle name or middle initial of the person.				
	LastName	Name(nvarchar(50))			
	Last name of the person.				
	Suffix	nvarchar(10)		X	
	Surname suffix. For example, Sr. or Jr.				
	EmailPromotion	int			0
	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		X	
	Additional contact information about the person stored in xml format.				
	Demographics	xml		X	
	Personal information such as hobbies, and income collected from online shoppers. Used for sales analysis.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_Person_BusinessEntityID *(Primary Key) (Clustered) (0.01% Selectivity)*

> *Primary key (clustered) constraint*

> BusinessEntityID

AK_Person_rowguid *(Unique) (0.01% Selectivity)*

> *Unique nonclustered index. Used to support replication samples.*

> rowguid

PXML_Person_AddContact *(XML)*

> *Primary XML index.*

> AdditionalContactInfo

PXML_Person_Demographics *(XML)*

> *Primary XML index.*

> Demographics

XMLPATH_Person_Demographics *(XML)*

Secondary XML index for path.

Demographics

XMLPROPERTY_Person_Demographics *(XML)*

Secondary XML index for property.

Demographics

XMLVALUE_Person_Demographics *(XML)*

Secondary XML index for value.

Demographics

IX_Person_LastName_FirstName_MiddleName *(0.01% Selectivity)*

LastName
FirstName
MiddleName

References:

Person.BusinessEntity *(BusinessEntityID)*

Referenced by:

HumanResources.Employee *(BusinessEntityID)*

Person.BusinessEntityContact *(PersonID -> BusinessEntityID)*

Person.EmailAddress *(BusinessEntityID)*

Person.Password *(BusinessEntityID)*

Person.PersonPhone *(BusinessEntityID)*

Sales.Customer *(PersonID -> BusinessEntityID)*

Sales.PersonCreditCard *(BusinessEntityID)*

Triggers:

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.

Used by:

Function dbo.ufnGetContactInformation

BusinessEntityID
FirstName
LastName

Procedure dbo.uspGetEmployeeManagers

BusinessEntityID
FirstName
LastName

Procedure dbo.uspGetManagerEmployees

BusinessEntityID
FirstName
LastName

Trigger iduSalesOrderDetail on **Sales.SalesOrderDetail**

       BusinessEntityID
       Demographics

View HumanResources.vEmployee

       AdditionalContactInfo
       BusinessEntityID
       EmailPromotion
       FirstName
       LastName
       MiddleName
       Suffix
       Title

View HumanResources.vEmployeeDepartment

       BusinessEntityID
       FirstName
       LastName
       MiddleName
       Suffix
       Title

View HumanResources.vEmployeeDepartmentHistory

       BusinessEntityID
       FirstName
       LastName
       MiddleName
       Suffix
       Title

View Person.vAdditionalContactInfo

       AdditionalContactInfo
       BusinessEntityID
       FirstName
       LastName
       MiddleName
       ModifiedDate
       rowguid

View Purchasing.vVendorWithContacts

       BusinessEntityID
       EmailPromotion
       FirstName
       LastName
       MiddleName
       Suffix
       Title

View Sales.vIndividualCustomer

       BusinessEntityID
       Demographics
       EmailPromotion
       FirstName
       LastName
       MiddleName
       Suffix
       Title

View Sales.vPersonDemographics

       BusinessEntityID
       Demographics

View Sales.vSalesPerson

       BusinessEntityID

EmailPromotion
FirstName
LastName
MiddleName
Suffix
Title

View Sales.vSalesPersonSalesByFiscalYears

BusinessEntityID
FirstName
LastName
MiddleName

View Sales.vStoreWithContacts

BusinessEntityID
EmailPromotion
FirstName
LastName
MiddleName
Suffix
Title

Table Person.PersonPhone *(19,972 rows)*

Telephone number and type of a person.

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Business entity identification number. Foreign key to Person.BusinessEntityID.				
PK	PhoneNumber	Phone(nvarchar(25))			
	Telephone number identification number.				
PK, FK	PhoneNumberTypeID	int			
	Kind of phone number. Foreign key to PhoneNumberType.PhoneNumberTypeID.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_PersonPhone_BusinessEntityID_PhoneNumber_PhoneNumberTypeID *(Primary Key) (Clustered) (0.01% Selectivity)*

Primary key (clustered) constraint

BusinessEntityID
PhoneNumber
PhoneNumberTypeID

IX_PersonPhone_PhoneNumber *(0.01% Selectivity)*

Nonclustered index.

PhoneNumber

References:

Person.Person *(BusinessEntityID)*

Person.PhoneNumberType *(PhoneNumberTypeID)*

Used by:

View HumanResources.vEmployee

BusinessEntityID
PhoneNumber
PhoneNumberTypeID

View Purchasing.vVendorWithContacts

BusinessEntityID
PhoneNumber
PhoneNumberTypeID

View Sales.vIndividualCustomer

BusinessEntityID
PhoneNumber
PhoneNumberTypeID

View Sales.vSalesPerson

BusinessEntityID
PhoneNumber
PhoneNumberTypeID

View Sales.vStoreWithContacts

BusinessEntityID
PhoneNumber

PhoneNumberTypeID

Table Person.PhoneNumberType *(3 rows)*

Type of phone number of a person.

	Column	Data Type	Identity	Nullable	Default
PK	PhoneNumberTypeID	int	X		
	Primary key for telephone number type records.				
	Name	Name(nvarchar(50))			
	Name of the telephone number type				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_PhoneNumberType_PhoneNumberTypeID *(Primary Key) (Clustered) (33.33% Selectivity)*

Primary key (clustered) constraint

PhoneNumberTypeID

Referenced by:

Person.PersonPhone *(PhoneNumberTypeID)*

Used by:

View HumanResources.vEmployee

Name
PhoneNumberTypeID

View Purchasing.vVendorWithContacts

Name
PhoneNumberTypeID

View Sales.vIndividualCustomer

Name
PhoneNumberTypeID

View Sales.vSalesPerson

Name
PhoneNumberTypeID

View Sales.vStoreWithContacts

Name
PhoneNumberTypeID

Table Person.StateProvince *(181 rows)*

State and province lookup table.

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

Indexes:

PK_StateProvince_StateProvinceID *(Primary Key) (Clustered) (0.55% Selectivity)*

Primary key (clustered) constraint

StateProvinceID

AK_StateProvince_Name *(Unique) (0.55% Selectivity)*

Unique nonclustered index.

Name

AK_StateProvince_rowguid *(Unique) (0.55% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

AK_StateProvince_StateProvinceCode_CountryRegionCode *(Unique) (0.55% Selectivity)*

Unique nonclustered index.

StateProvinceCode
CountryRegionCode

References:

Person.CountryRegion *(CountryRegionCode)*

Sales.SalesTerritory *(TerritoryID)*

Referenced by:

Person.Address *(StateProvinceID)*

Sales.SalesTaxRate *(StateProvinceID)*

Used by:

View HumanResources.vEmployee

    CountryRegionCode
    Name
    StateProvinceID

View Person.vStateProvinceCountryRegion

    CountryRegionCode
    IsOnlyStateProvinceFlag
    Name
    StateProvinceCode
    StateProvinceID
    TerritoryID

View Purchasing.vVendorWithAddresses

    CountryRegionCode
    Name
    StateProvinceID

View Sales.vIndividualCustomer

    CountryRegionCode
    Name
    StateProvinceID

View Sales.vSalesPerson

    CountryRegionCode
    Name
    StateProvinceID

View Sales.vStoreWithAddresses

    CountryRegionCode
    Name
    StateProvinceID

Table Production.BillOfMaterials *(2,679 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK	BillOfMaterialsID	int	X		
	Primary key for BillOfMaterials records.				
UK, FK	ProductAssemblyID	int		X	
	Parent product identification number. Foreign key to Product.ProductID.				
UK, FK	ComponentID	int			
	Component identification number. Foreign key to Product.ProductID.				
UK	StartDate	datetime			getdate()
	Date the component started being used in the assembly item.				
	EndDate	datetime		X	
	Date the component stopped being used in the assembly item.				
FK	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)			1.00
	Quantity of the component needed to create the assembly.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_BillOfMaterials_BillOfMaterialsID *(Primary Key) (0.04% Selectivity)*

Primary key (clustered) constraint

BillOfMaterialsID

AK_BillOfMaterials_ProductAssemblyID_ComponentID_StartDate *(Unique) (Clustered) (0.04% Selectivity)*

Clustered index.

ProductAssemblyID
ComponentID
StartDate

IX_BillOfMaterials_UnitMeasureCode *(33.33% Selectivity)*

Nonclustered index.

UnitMeasureCode

References:

Production.Product *(ComponentID -> ProductID)*

Production.Product *(ProductAssemblyID -> ProductID)*

Production.UnitMeasure *(UnitMeasureCode)*

Used by:

Procedure dbo.uspGetBillOfMaterials

BOMLevel
ComponentID
EndDate
PerAssemblyQty
ProductAssemblyID
StartDate

Procedure dbo.uspGetWhereUsedProductID

BOMLevel
ComponentID
EndDate
PerAssemblyQty
ProductAssemblyID
StartDate

Table **Production.Culture** *(8 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK	CultureID	nchar(6)			
	Primary key for Culture records.				
UK	Name	Name(nvarchar(50))			
	Culture description.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_Culture_CultureID *(Primary Key) (Clustered) (12.5% Selectivity)*

Primary key (clustered) constraint

CultureID

AK_Culture_Name *(Unique) (12.5% Selectivity)*

Unique nonclustered index.

Name

Referenced by:

Production.ProductModelProductDescriptionCulture *(CultureID)*

Table Production.Document *(13 rows)*

Product maintenance documents.

	Column	Data Type	Identity	Nullable	Default
PK, UK	DocumentNode	hierarchyid			
	Primary key for Document records.				
UK	DocumentLevel	smallint		X	
	Depth in the document hierarchy.				
	Title	nvarchar(50)			
	Title of the document.				
FK	Owner	int			
	Employee who controls the document. Foreign key to Employee.BusinessEntityID				
	FolderFlag	bit			0
	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			0
	Engineering change approval number.				
	Status	tinyint			
	1 = Pending approval, 2 = Approved, 3 = Obsolete				
	DocumentSummary	nvarchar(max)		X	
	Document abstract.				
	Document	varbinary(max)		X	
	Complete document.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Required for FileStream.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_Document_DocumentNode *(Primary Key) (Clustered) (7.69% Selectivity)*

Primary key (clustered) constraint

DocumentNode

AK_Document_DocumentLevel_DocumentNode *(Unique) (7.69% Selectivity)*

Unique nonclustered index.

DocumentLevel
DocumentNode

AK_Document_rowguid *(Unique) (7.69% Selectivity)*

Unique nonclustered index. Used to support FileStream.

rowguid

UQ__Document__F73921F793071A63 *(Unique) (7.69% Selectivity)*

rowguid

IX_Document_FileName_Revision *(7.69% Selectivity)*

Unique nonclustered index.

FileName

Revision

References:

    HumanResources.Employee *(Owner -> BusinessEntityID)*

Referenced by:

    Production.ProductDocument *(DocumentNode)*

Table Production.Illustration *(5 rows)*

Bicycle assembly diagrams.

	Column	Data Type	Identity	Nullable	Default
PK	IllustrationID	int	X		
	Primary key for Illustration records.				
	Diagram	xml		X	
	Illustrations used in manufacturing instructions. Stored as XML.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_Illustration_IllustrationID *(Primary Key) (Clustered) (20% Selectivity)*

Primary key (clustered) constraint

IllustrationID

Referenced by:

Production.ProductModelIllustration *(IllustrationID)*

Table Production.Location *(14 rows)*

Product inventory and manufacturing locations.

	Column	Data Type	Identity	Nullable	Default
PK	LocationID	smallint	X		
	Primary key for Location records.				
UK	Name	Name(nvarchar(50))			
	Location description.				
	CostRate	smallmoney			0.00
	Standard hourly cost of the manufacturing location.				
	Availability	decimal(8,2)			0.00
	Work capacity (in hours) of the manufacturing location.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_Location_LocationID *(Primary Key) (Clustered) (7.14% Selectivity)*

Primary key (clustered) constraint

LocationID

AK_Location_Name *(Unique) (7.14% Selectivity)*

Unique nonclustered index.

Name

Referenced by:

Production.ProductInventory *(LocationID)*

Production.WorkOrderRouting *(LocationID)*

Table Production.Product *(504 rows)*

Products sold or used in the manfacturing of sold products.

	Column	Data Type	Identity	Nullable	Default
PK	ProductID	int	X		
	Primary key for Product records.				
UK	Name	Name(nvarchar(50))			
	Name of the product.				
UK	ProductNumber	nvarchar(25)			
	Unique product identification number.				
	MakeFlag	Flag(bit)			1
	0 = Product is purchased, 1 = Product is manufactured in-house.				
	FinishedGoodsFlag	Flag(bit)			1
	0 = Product is not a salable item. 1 = Product is salable.				
	Color	nvarchar(15)		X	
	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)		X	
	Product size.				
FK	SizeUnitMeasureCode	nchar(3)		X	
	Unit of measure for Size column.				
FK	WeightUnitMeasureCode	nchar(3)		X	
	Unit of measure for Weight column.				
	Weight	decimal(8,2)		X	
	Product weight.				
	DaysToManufacture	int			
	Number of days required to manufacture the product.				
	ProductLine	nchar(2)		X	
	R = Road, M = Mountain, T = Touring, S = Standard				
	Class	nchar(2)		X	
	H = High, M = Medium, L = Low				
	Style	nchar(2)		X	
	W = Womens, M = Mens, U = Universal				
FK	ProductSubcategoryID	int		X	
	Product is a member of this product subcategory. Foreign key to ProductSubCategory.ProductSubCategoryID.				
FK	ProductModelID	int		X	
	Product is a member of this product model. Foreign key to ProductModel.ProductModelID.				
	SellStartDate	datetime			
	Date the product was available for sale.				
	SellEndDate	datetime		X	
	Date the product was no longer available for sale.				
	DiscontinuedDate	datetime		X	
	Date the product was discontinued.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_Product_ProductID *(Primary Key) (Clustered) (0.2% Selectivity)*

Primary key (clustered) constraint

ProductID

AK_Product_Name *(Unique) (0.2% Selectivity)*

Unique nonclustered index.

Name

AK_Product_ProductNumber *(Unique) (0.2% Selectivity)*

Unique nonclustered index.

ProductNumber

AK_Product_rowguid *(Unique) (0.2% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

References:

Production.ProductModel *(ProductModelID)*

Production.ProductSubcategory *(ProductSubcategoryID)*

Production.UnitMeasure *(SizeUnitMeasureCode -> UnitMeasureCode)*

Production.UnitMeasure *(WeightUnitMeasureCode -> UnitMeasureCode)*

Referenced by:

Production.BillOfMaterials *(ComponentID -> ProductID)*

Production.BillOfMaterials *(ProductAssemblyID -> ProductID)*

Production.ProductCostHistory *(ProductID)*

Production.ProductDocument *(ProductID)*

Production.ProductInventory *(ProductID)*

Production.ProductListPriceHistory *(ProductID)*

Production.ProductProductPhoto *(ProductID)*

Production.ProductReview *(ProductID)*

Production.TransactionHistory *(ProductID)*

Production.WorkOrder *(ProductID)*

Purchasing.ProductVendor *(ProductID)*

Purchasing.PurchaseOrderDetail *(ProductID)*

Sales.ShoppingCartItem *(ProductID)*

Sales.SpecialOfferProduct *(ProductID)*

Used by:

Function dbo.ufnGetProductDealerPrice

ProductID

Function dbo.ufnGetProductListPrice

      ProductID

Function dbo.ufnGetProductStandardCost

      ProductID

Procedure dbo.uspGetBillOfMaterials

      ListPrice
      Name
      ProductID
      StandardCost

Procedure dbo.uspGetWhereUsedProductID

      ListPrice
      Name
      ProductID
      StandardCost

View Production.vProductAndDescription

      Name
      ProductID
      ProductModelID

Table **Production.ProductCategory** *(4 rows)*

High-level product categorization.

	Column	Data Type	Identity	Nullable	Default
PK	ProductCategoryID	int	X		
	Primary key for ProductCategory records.				
UK	Name	Name(nvarchar(50))			
	Category description.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductCategory_ProductCategoryID *(Primary Key) (Clustered) (25% Selectivity)*

Primary key (clustered) constraint

ProductCategoryID

AK_ProductCategory_Name *(Unique) (25% Selectivity)*

Unique nonclustered index.

Name

AK_ProductCategory_rowguid *(Unique) (25% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

Referenced by:

Production.ProductSubcategory *(ProductCategoryID)*

Table Production.ProductCostHistory *(395 rows)*

Changes in the cost of a product over time.

	Column	Data Type	Identity	Nullable	Default
PK, FK	ProductID	int			
	Product identification number. Foreign key to Product.ProductID				
PK	StartDate	datetime			
	Product cost start date.				
	EndDate	datetime		X	
	Product cost end date.				
	StandardCost	money			
	Standard cost of the product.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductCostHistory_ProductID_StartDate *(Primary Key) (Clustered) (0.25% Selectivity)*

Primary key (clustered) constraint

ProductID
StartDate

References:

Production.Product *(ProductID)*

Used by:

Function dbo.ufnGetProductStandardCost

EndDate
ProductID
StandardCost
StartDate

Table Production.ProductDescription *(762 rows)*

Product descriptions in several languages.

	Column	Data Type	Identity	Nullable	Default
PK	ProductDescriptionID	int	X		
	Primary key for ProductDescription records.				
	Description	nvarchar(400)			
	Description of the product.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductDescription_ProductDescriptionID *(Primary Key) (Clustered) (0.13% Selectivity)*

Primary key (clustered) constraint

ProductDescriptionID

AK_ProductDescription_rowguid *(Unique) (0.13% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

Referenced by:

Production.ProductModelProductDescriptionCulture *(ProductDescriptionID)*

Used by:

View Production.vProductAndDescription

Description
ProductDescriptionID

Table Production.ProductDocument *(32 rows)*

Cross-reference table mapping products to related product documents.

	Column	Data Type	Identity	Nullable	Default
PK, FK	ProductID	int			
	Product identification number. Foreign key to Product.ProductID.				
PK, FK	DocumentNode	hierarchyid			
	Document identification number. Foreign key to Document.DocumentNode.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductDocument_ProductID_DocumentNode *(Primary Key) (Clustered) (3.13% Selectivity)*

Primary key (clustered) constraint

ProductID
DocumentNode

References:

Production.Document *(DocumentNode)*

Production.Product *(ProductID)*

Table Production.ProductInventory *(1,069 rows)*

Product inventory information.

	Column	Data Type	Identity	Nullable	Default
PK, FK	ProductID	int			
	Product identification number. Foreign key to Product.ProductID.				
PK, FK	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			0
	Quantity of products in the inventory location.				
	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductInventory_ProductID_LocationID *(Primary Key) (Clustered) (0.09% Selectivity)*

Primary key (clustered) constraint

ProductID
LocationID

References:

Production.Location *(LocationID)*

Production.Product *(ProductID)*

Used by:

Function dbo.ufnGetStock

LocationID
ProductID
Quantity

Table Production.ProductListPriceHistory *(395 rows)*

Changes in the list price of a product over time.

	Column	Data Type	Identity	Nullable	Default
PK, FK	ProductID	int			
	Product identification number. Foreign key to Product.ProductID				
PK	StartDate	datetime			
	List price start date.				
	EndDate	datetime		X	
	List price end date				
	ListPrice	money			
	Product list price.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductListPriceHistory_ProductID_StartDate *(Primary Key) (Clustered) (0.25% Selectivity)*

Primary key (clustered) constraint

ProductID
StartDate

References:

Production.Product *(ProductID)*

Used by:

Function dbo.ufnGetProductDealerPrice

EndDate
ListPrice
ProductID
StartDate

Function dbo.ufnGetProductListPrice

EndDate
ListPrice
ProductID
StartDate

Table **Production.ProductModel** *(128 rows)*

Product model classification.

	Column	Data Type	Identity	Nullable	Default
PK	ProductModelID	int	X		
	Primary key for ProductModel records.				
UK	Name	Name(nvarchar(50))			
	Product model description.				
	CatalogDescription	xml		X	
	Detailed product catalog information in xml format.				
	Instructions	xml		X	
	Manufacturing instructions in xml format.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductModel_ProductModelID *(Primary Key) (Clustered) (0.78% Selectivity)*

Primary key (clustered) constraint

ProductModelID

AK_ProductModel_Name *(Unique) (0.78% Selectivity)*

Unique nonclustered index.

Name

AK_ProductModel_rowguid *(Unique) (0.78% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

PXML_ProductModel_CatalogDescription *(XML)*

Primary XML index.

CatalogDescription

PXML_ProductModel_Instructions *(XML)*

Primary XML index.

Instructions

Referenced by:

Production.Product *(ProductModelID)*

Production.ProductModelIllustration *(ProductModelID)*

Production.ProductModelProductDescriptionCulture *(ProductModelID)*

Used by:

View Production.vProductAndDescription

Name
ProductModelID

View Production.vProductModelCatalogDescription

       CatalogDescription
       ModifiedDate
       Name
       ProductModelID
       rowguid

View Production.vProductModelInstructions

       Instructions
       ModifiedDate
       Name
       ProductModelID
       rowguid

Table Production.ProductModelIllustration *(7 rows)*

Cross-reference table mapping product models and illustrations.

	Column	Data Type	Identity	Nullable	Default
PK, FK	ProductModelID	int			
	Primary key. Foreign key to ProductModel.ProductModelID.				
PK, FK	IllustrationID	int			
	Primary key. Foreign key to Illustration.IllustrationID.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductModelIllustration_ProductModelID_IllustrationID *(Primary Key) (Clustered) (14.29% Selectivity)*

Primary key (clustered) constraint

ProductModelID
IllustrationID

References:

Production.Illustration *(IllustrationID)*

Production.ProductModel *(ProductModelID)*

Table **Production.ProductModelProductDescriptionCulture** *(762 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK, FK	ProductModelID	int			
	Primary key. Foreign key to ProductModel.ProductModelID.				
PK, FK	ProductDescriptionID	int			
	Primary key. Foreign key to ProductDescription.ProductDescriptionID.				
PK, FK	CultureID	nchar(6)			
	Culture identification number. Foreign key to Culture.CultureID.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductModelProductDescriptionCulture_ProductModelID_ProductDescriptionID_CultureID *(Primary Key)* *(Clustered) (0.13% Selectivity)*

Primary key (clustered) constraint

ProductModelID
ProductDescriptionID
CultureID

References:

Production.Culture *(CultureID)*

Production.ProductDescription *(ProductDescriptionID)*

Production.ProductModel *(ProductModelID)*

Used by:

View Production.vProductAndDescription

CultureID
ProductDescriptionID
ProductModelID

Table **Production.ProductPhoto** *(101 rows)*

Product images.

	Column	Data Type	Identity	Nullable	Default
PK	ProductPhotoID	int	X		
	Primary key for ProductPhoto records.				
	ThumbNailPhoto	varbinary(max)		X	
	Small image of the product.				
	ThumbnailPhotoFileName	nvarchar(50)		X	
	Small image file name.				
	LargePhoto	varbinary(max)		X	
	Large image of the product.				
	LargePhotoFileName	nvarchar(50)		X	
	Large image file name.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductPhoto_ProductPhotoID *(Primary Key) (Clustered) (0.99% Selectivity)*

Primary key (clustered) constraint

ProductPhotoID

Referenced by:

Production.ProductProductPhoto *(ProductPhotoID)*

Table **Production.ProductProductPhoto** *(504 rows)*

Cross-reference table mapping products and product photos.

	Column	Data Type	Identity	Nullable	Default
PK, FK	ProductID	int			
	Product identification number. Foreign key to Product.ProductID.				
PK, FK	ProductPhotoID	int			
	Product photo identification number. Foreign key to ProductPhoto.ProductPhotoID.				
	Primary	Flag(bit)			0
	0 = Photo is not the principal image. 1 = Photo is the principal image.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductProductPhoto_ProductID_ProductPhotoID *(Primary Key) (0.2% Selectivity)*

Primary key (clustered) constraint

ProductID
ProductPhotoID

References:

Production.Product *(ProductID)*

Production.ProductPhoto *(ProductPhotoID)*

Table **Production.ProductReview** *(4 rows)*

Customer reviews of products they have purchased.

	Column	Data Type	Identity	Nullable	Default
PK	ProductReviewID	int	X		
	Primary key for ProductReview records.				
FK	ProductID	int			
	Product identification number. Foreign key to Product.ProductID.				
	ReviewerName	Name(nvarchar(50))			
	Name of the reviewer.				
	ReviewDate	datetime			getdate()
	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)		X	
	Reviewer's comments				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductReview_ProductReviewID *(Primary Key) (Clustered) (25% Selectivity)*

Primary key (clustered) constraint

ProductReviewID

IX_ProductReview_ProductID_Name *(25% Selectivity)*

Nonclustered index.

ProductID
ReviewerName
Comments *(Included)*

References:

Production.Product *(ProductID)*

Table **Production.ProductSubcategory** *(37 rows)*

Product subcategories. See ProductCategory table.

	Column	Data Type	Identity	Nullable	Default
PK	ProductSubcategoryID	int	X		
	Primary key for ProductSubcategory records.				
FK	ProductCategoryID	int			
	Product category identification number. Foreign key to ProductCategory.ProductCategoryID.				
UK	Name	Name(nvarchar(50))			
	Subcategory description.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductSubcategory_ProductSubcategoryID *(Primary Key) (Clustered) (2.7% Selectivity)*

Primary key (clustered) constraint

ProductSubcategoryID

AK_ProductSubcategory_Name *(Unique) (2.7% Selectivity)*

Unique nonclustered index.

Name

AK_ProductSubcategory_rowguid *(Unique) (2.7% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

References:

Production.ProductCategory *(ProductCategoryID)*

Referenced by:

Production.Product *(ProductSubcategoryID)*

Table Production.ScrapReason *(16 rows)*

Manufacturing failure reasons lookup table.

	Column	Data Type	Identity	Nullable	Default
PK	ScrapReasonID	smallint	X		
	Primary key for ScrapReason records.				
UK	Name	Name(nvarchar(50))			
	Failure description.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ScrapReason_ScrapReasonID *(Primary Key) (Clustered) (6.25% Selectivity)*

Primary key (clustered) constraint

ScrapReasonID

AK_ScrapReason_Name *(Unique) (6.25% Selectivity)*

Unique nonclustered index.

Name

Referenced by:

Production.WorkOrder *(ScrapReasonID)*

Table Production.TransactionHistory *(113,443 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK	TransactionID	int	X		
	Primary key for TransactionHistory records.				
FK	ProductID	int			
	Product identification number. Foreign key to Product.ProductID.				
	ReferenceOrderID	int			
	Purchase order, sales order, or work order identification number.				
	ReferenceOrderLineID	int			0
	Line number associated with the purchase order, sales order, or work order.				
	TransactionDate	datetime			getdate()
	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			getdate()
	Date and time the record was last updated.				

Indexes:

> **PK_TransactionHistory_TransactionID** *(Primary Key) (Clustered) (< 0.01% Selectivity)*
>
> > *Primary key (clustered) constraint*
> >
> > TransactionID

> **IX_TransactionHistory_ProductID** *(0.23% Selectivity)*
>
> > *Nonclustered index.*
> >
> > ProductID

> **IX_TransactionHistory_ReferenceOrderID_ReferenceOrderLineID** *(< 0.01% Selectivity)*
>
> > *Nonclustered index.*
> >
> > ReferenceOrderID
> > ReferenceOrderLineID

References:

> **Production.Product** *(ProductID)*

Used by:

> **Trigger iWorkOrder** on **Production.WorkOrder**
>
> > ActualCost
> > ProductID
> > Quantity
> > ReferenceOrderID
> > TransactionDate
> > TransactionType

> **Trigger uWorkOrder** on **Production.WorkOrder**
>
> > ProductID
> > Quantity
> > ReferenceOrderID
> > TransactionDate

TransactionType

Trigger iPurchaseOrderDetail on **Purchasing.PurchaseOrderDetail**

    ActualCost
    ProductID
    Quantity
    ReferenceOrderID
    ReferenceOrderLineID
    TransactionDate
    TransactionType

Trigger uPurchaseOrderDetail on **Purchasing.PurchaseOrderDetail**

    ActualCost
    ProductID
    Quantity
    ReferenceOrderID
    ReferenceOrderLineID
    TransactionDate
    TransactionType

Trigger iduSalesOrderDetail on **Sales.SalesOrderDetail**

    ActualCost
    ProductID
    Quantity
    ReferenceOrderID
    ReferenceOrderLineID
    TransactionDate
    TransactionType

Trigger iPurchaseOrderDetail on **Purchasing.PurchaseOrderDetail**

Table Production.TransactionHistoryArchive *(89,253 rows)*

Transactions for previous years.

	Column	Data Type	Identity	Nullable	Default
PK	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			0
	Line number associated with the purchase order, sales order, or work order.				
	TransactionDate	datetime			getdate()
	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			getdate()
	Date and time the record was last updated.				

Indexes:

PK_TransactionHistoryArchive_TransactionID *(Primary Key) (Clustered) (< 0.01% Selectivity)*

Primary key (clustered) constraint

TransactionID

IX_TransactionHistoryArchive_ProductID *(0.2% Selectivity)*

Nonclustered index.

ProductID

IX_TransactionHistoryArchive_ReferenceOrderID_ReferenceOrderLineID *(< 0.01% Selectivity)*

Nonclustered index.

ReferenceOrderID
ReferenceOrderLineID

Table Production.UnitMeasure *(38 rows)*

Unit of measure lookup table.

	Column	Data Type	Identity	Nullable	Default
PK	UnitMeasureCode	nchar(3)			
	Primary key.				
UK	Name	Name(nvarchar(50))			
	Unit of measure description.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_UnitMeasure_UnitMeasureCode *(Primary Key) (Clustered) (2.63% Selectivity)*

Primary key (clustered) constraint

UnitMeasureCode

AK_UnitMeasure_Name *(Unique) (2.63% Selectivity)*

Unique nonclustered index.

Name

Referenced by:

Production.BillOfMaterials *(UnitMeasureCode)*

Production.Product *(SizeUnitMeasureCode -> UnitMeasureCode)*

Production.Product *(WeightUnitMeasureCode -> UnitMeasureCode)*

Purchasing.ProductVendor *(UnitMeasureCode)*

Table Production.WorkOrder *(72,591 rows)*

Manufacturing work orders.

	Column	Data Type	Identity	Nullable	Default
PK	WorkOrderID	int	X		
	Primary key for WorkOrder records.				
FK	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		X	
	Work order end date.				
	DueDate	datetime			
	Work order due date.				
FK	ScrapReasonID	smallint		X	
	Reason for inspection failure.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_WorkOrder_WorkOrderID *(Primary Key) (Clustered) (< 0.01% Selectivity)*

Primary key (clustered) constraint

WorkOrderID

IX_WorkOrder_ProductID *(0.42% Selectivity)*

Nonclustered index.

ProductID

IX_WorkOrder_ScrapReasonID *(5.88% Selectivity)*

Nonclustered index.

ScrapReasonID

References:

Production.Product *(ProductID)*

Production.ScrapReason *(ScrapReasonID)*

Referenced by:

Production.WorkOrderRouting *(WorkOrderID)*

Triggers:

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.

Table **Production.WorkOrderRouting** *(67,131 rows)*

Work order details.

	Column	Data Type	Identity	Nullable	Default
PK, FK	WorkOrderID	int			
	Primary key. Foreign key to WorkOrder.WorkOrderID.				
PK	ProductID	int			
	Primary key. Foreign key to Product.ProductID.				
PK	OperationSequence	smallint			
	Primary key. Indicates the manufacturing process sequence.				
FK	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		X	
	Actual start date.				
	ActualEndDate	datetime		X	
	Actual end date.				
	ActualResourceHrs	decimal(9,4)		X	
	Number of manufacturing hours used.				
	PlannedCost	money			
	Estimated manufacturing cost.				
	ActualCost	money		X	
	Actual manufacturing cost.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_WorkOrderRouting_WorkOrderID_ProductID_OperationSequence *(Primary Key) (Clustered) (< 0.01% Selectivity)*

Primary key (clustered) constraint

WorkOrderID
ProductID
OperationSequence

IX_WorkOrderRouting_ProductID *(0.67% Selectivity)*

Nonclustered index.

ProductID

References:

Production.Location *(LocationID)*

Production.WorkOrder *(WorkOrderID)*

Table Purchasing.ProductVendor *(460 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK, FK	ProductID	int			
	Primary key. Foreign key to Product.ProductID.				
PK, FK	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		X	
	The selling price when last purchased.				
	LastReceiptDate	datetime		X	
	Date the product was last received by the vendor.				
	MinOrderQty	int			
	The maximum quantity that should be ordered.				
	MaxOrderQty	int			
	The minimum quantity that should be ordered.				
	OnOrderQty	int		X	
	The quantity currently on order.				
FK	UnitMeasureCode	nchar(3)			
	The product's unit of measure.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ProductVendor_ProductID_BusinessEntityID *(Primary Key) (Clustered) (0.22% Selectivity)*

Primary key (clustered) constraint

ProductID
BusinessEntityID

IX_ProductVendor_BusinessEntityID *(1.16% Selectivity)*

Nonclustered index.

BusinessEntityID

IX_ProductVendor_UnitMeasureCode *(14.29% Selectivity)*

Nonclustered index.

UnitMeasureCode

References:

Production.Product *(ProductID)*

Production.UnitMeasure *(UnitMeasureCode)*

Purchasing.Vendor *(BusinessEntityID)*

Table Purchasing.PurchaseOrderDetail *(8,845 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK, FK	PurchaseOrderID	int			
	Primary key. Foreign key to PurchaseOrderHeader.PurchaseOrderID.				
PK	PurchaseOrderDetailID	int	X		
	Primary key. One line number per purchased product.				
	DueDate	datetime			
	Date the product is expected to be received.				
	OrderQty	smallint			
	Quantity ordered.				
FK	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			getdate()
	Date and time the record was last updated.				

Indexes:

PK_PurchaseOrderDetail_PurchaseOrderID_PurchaseOrderDetailID *(Primary Key) (Clustered) (0.01% Selectivity)*

Primary key (clustered) constraint

PurchaseOrderID
PurchaseOrderDetailID

IX_PurchaseOrderDetail_ProductID *(0.38% Selectivity)*

Nonclustered index.

ProductID

References:

Production.Product *(ProductID)*

Purchasing.PurchaseOrderHeader *(PurchaseOrderID)*

Triggers:

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.

Table Purchasing.PurchaseOrderHeader *(4,012 rows)*

General purchase order information. See PurchaseOrderDetail.

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

Indexes:

PK_PurchaseOrderHeader_PurchaseOrderID *(Primary Key) (Clustered) (0.02% Selectivity)*

Primary key (clustered) constraint

PurchaseOrderID

IX_PurchaseOrderHeader_EmployeeID *(8.33% Selectivity)*

Nonclustered index.

EmployeeID

IX_PurchaseOrderHeader_VendorID *(1.16% Selectivity)*

Nonclustered index.

VendorID

References:

HumanResources.Employee *(EmployeeID -> BusinessEntityID)*

Purchasing.ShipMethod *(ShipMethodID)*

Purchasing.Vendor *(VendorID -> BusinessEntityID)*

Referenced by:

Purchasing.PurchaseOrderDetail *(PurchaseOrderID)*

Triggers:

uPurchaseOrderHeader *(After Update)*

AFTER UPDATE trigger that updates the RevisionNumber and ModifiedDate columns in the PurchaseOrderHeader table.

Used by:

Trigger iPurchaseOrderDetail on **Purchasing.PurchaseOrderDetail**

PurchaseOrderID
SubTotal

Trigger uPurchaseOrderDetail on **Purchasing.PurchaseOrderDetail**

PurchaseOrderID
SubTotal

Table Purchasing.ShipMethod *(5 rows)*

Shipping company lookup table.

	Column	Data Type	Identity	Nullable	Default
PK	ShipMethodID	int	X		
	Primary key for ShipMethod records.				
UK	Name	Name(nvarchar(50))			
	Shipping company name.				
	ShipBase	money			0.00
	Minimum shipping charge.				
	ShipRate	money			0.00
	Shipping charge per pound.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ShipMethod_ShipMethodID *(Primary Key) (Clustered) (20% Selectivity)*

Primary key (clustered) constraint

ShipMethodID

AK_ShipMethod_Name *(Unique) (20% Selectivity)*

Unique nonclustered index.

Name

AK_ShipMethod_rowguid *(Unique) (20% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

Referenced by:

Purchasing.PurchaseOrderHeader *(ShipMethodID)*

Sales.SalesOrderHeader *(ShipMethodID)*

Table Purchasing.Vendor *(104 rows)*

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

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

Indexes:

>**PK_Vendor_BusinessEntityID** *(Primary Key) (Clustered) (0.96% Selectivity)*
>
>>*Primary key (clustered) constraint*
>>
>>BusinessEntityID
>
>**AK_Vendor_AccountNumber** *(Unique) (0.96% Selectivity)*
>
>>*Unique nonclustered index.*
>>
>>AccountNumber

References:

>**Person.BusinessEntity** *(BusinessEntityID)*

Referenced by:

>**Purchasing.ProductVendor** *(BusinessEntityID)*
>
>**Purchasing.PurchaseOrderHeader** *(VendorID -> BusinessEntityID)*

Triggers:

>**dVendor** *(Instead Of Delete)*
>
>>*INSTEAD OF DELETE trigger which keeps Vendors from being deleted.*

Used by:

>**Function dbo.ufnGetContactInformation**
>
>>BusinessEntityID
>
>**View Purchasing.vVendorWithAddresses**
>
>>BusinessEntityID
>>Name
>
>**View Purchasing.vVendorWithContacts**

BusinessEntityID
Name

Table Sales.CountryRegionCurrency *(109 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK, FK	CountryRegionCode	nvarchar(3)			
	ISO code for countries and regions. Foreign key to CountryRegion.CountryRegionCode.				
PK, FK	CurrencyCode	nchar(3)			
	ISO standard currency code. Foreign key to Currency.CurrencyCode.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_CountryRegionCurrency_CountryRegionCode_CurrencyCode *(Primary Key) (Clustered) (0.92% Selectivity)*

Primary key (clustered) constraint

CountryRegionCode
CurrencyCode

IX_CountryRegionCurrency_CurrencyCode *(1.03% Selectivity)*

Nonclustered index.

CurrencyCode

References:

Person.CountryRegion *(CountryRegionCode)*

Sales.Currency *(CurrencyCode)*

Table Sales.CreditCard *(19,118 rows)*

Customer credit card information.

	Column	Data Type	Identity	Nullable	Default
PK	CreditCardID	int	X		
	Primary key for CreditCard records.				
	CardType	nvarchar(50)			
	Credit card name.				
UK	CardNumber	nvarchar(25)			
	Credit card number.				
	ExpMonth	tinyint			
	Credit card expiration month.				
	ExpYear	smallint			
	Credit card expiration year.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_CreditCard_CreditCardID *(Primary Key) (Clustered) (0.01% Selectivity)*

Primary key (clustered) constraint

CreditCardID

AK_CreditCard_CardNumber *(Unique) (0.01% Selectivity)*

Unique nonclustered index.

CardNumber

Referenced by:

Sales.PersonCreditCard *(CreditCardID)*

Sales.SalesOrderHeader *(CreditCardID)*

Table Sales.Currency *(105 rows)*

Lookup table containing standard ISO currencies.

	Column	Data Type	Identity	Nullable	Default
PK	CurrencyCode	nchar(3)			
	The ISO code for the Currency.				
UK	Name	Name(nvarchar(50))			
	Currency name.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_Currency_CurrencyCode *(Primary Key) (Clustered) (0.95% Selectivity)*

Primary key (clustered) constraint

CurrencyCode

AK_Currency_Name *(Unique) (0.95% Selectivity)*

Unique nonclustered index.

Name

Referenced by:

Sales.CountryRegionCurrency *(CurrencyCode)*

Sales.CurrencyRate *(FromCurrencyCode -> CurrencyCode)*

Sales.CurrencyRate *(ToCurrencyCode -> CurrencyCode)*

Table Sales.CurrencyRate *(13,532 rows)*

Currency exchange rates.

	Column	Data Type	Identity	Nullable	Default
PK	CurrencyRateID	int	X		
	Primary key for CurrencyRate records.				
UK	CurrencyRateDate	datetime			
	Date and time the exchange rate was obtained.				
UK, FK	FromCurrencyCode	nchar(3)			
	Exchange rate was converted from this currency code.				
UK, FK	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			getdate()
	Date and time the record was last updated.				

Indexes:

PK_CurrencyRate_CurrencyRateID *(Primary Key) (Clustered) (0.01% Selectivity)*

Primary key (clustered) constraint

CurrencyRateID

AK_CurrencyRate_CurrencyRateDate_FromCurrencyCode_ToCurrencyCode *(Unique) (0.01% Selectivity)*

Unique nonclustered index.

CurrencyRateDate
FromCurrencyCode
ToCurrencyCode

References:

Sales.Currency *(FromCurrencyCode -> CurrencyCode)*

Sales.Currency *(ToCurrencyCode -> CurrencyCode)*

Referenced by:

Sales.SalesOrderHeader *(CurrencyRateID)*

Table Sales.Customer *(19,820 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK	CustomerID	int	X		
	Primary key.				
FK	PersonID	int		X	
	Foreign key to Person.BusinessEntityID				
FK	StoreID	int		X	
	Foreign key to Store.BusinessEntityID				
FK	TerritoryID	int		X	
	ID of the territory in which the customer is located. Foreign key to SalesTerritory.SalesTerritoryID.				
UK	AccountNumber	varchar(10)			
	Unique number identifying the customer assigned by the accounting system.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

> **PK_Customer_CustomerID** *(Primary Key) (Clustered) (0.01% Selectivity)*
>
> > *Primary key (clustered) constraint*
> >
> > CustomerID

> **AK_Customer_AccountNumber** *(Unique) (0.01% Selectivity)*
>
> > *Unique nonclustered index.*
> >
> > AccountNumber

> **AK_Customer_rowguid** *(Unique) (0.01% Selectivity)*
>
> > *Unique nonclustered index. Used to support replication samples.*
> >
> > rowguid

> **IX_Customer_TerritoryID** *(10% Selectivity)*
>
> > *Nonclustered index.*
> >
> > TerritoryID

References:

> **Person.Person** *(PersonID -> BusinessEntityID)*
>
> **Sales.SalesTerritory** *(TerritoryID)*
>
> **Sales.Store** *(StoreID -> BusinessEntityID)*

Referenced by:

> **Sales.SalesOrderHeader** *(CustomerID)*

Used by:

> **Function dbo.ufnGetContactInformation**
>
> > PersonID
> > StoreID

Trigger iduSalesOrderDetail on **Sales.SalesOrderDetail**

CustomerID
PersonID

View Sales.vIndividualCustomer

PersonID
StoreID

Table Sales.PersonCreditCard *(19,118 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Business entity identification number. Foreign key to Person.BusinessEntityID.				
PK, FK	CreditCardID	int			
	Credit card identification number. Foreign key to CreditCard.CreditCardID.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_PersonCreditCard_BusinessEntityID_CreditCardID *(Primary Key) (Clustered) (0.01% Selectivity)*

Primary key (clustered) constraint

BusinessEntityID
CreditCardID

References:

Person.Person *(BusinessEntityID)*

Sales.CreditCard *(CreditCardID)*

Table Sales.SalesOrderDetail *(121,317 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK, FK	SalesOrderID	int			
	Primary key. Foreign key to SalesOrderHeader.SalesOrderID.				
PK	SalesOrderDetailID	int	X		
	Primary key. One incremental unique number per product sold.				
	CarrierTrackingNumber	nvarchar(25)		X	
	Shipment tracking number supplied by the shipper.				
	OrderQty	smallint			
	Quantity ordered per product.				
FK	ProductID	int			
	Product sold to customer. Foreign key to Product.ProductID.				
FK	SpecialOfferID	int			
	Promotional code. Foreign key to SpecialOffer.SpecialOfferID.				
	UnitPrice	money			
	Selling price of a single product.				
	UnitPriceDiscount	money			0.0
	Discount amount.				
	LineTotal	numeric(38,6)			
	*Per product subtotal. Computed as UnitPrice * (1 - UnitPriceDiscount) * OrderQty.*				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_SalesOrderDetail_SalesOrderID_SalesOrderDetailID *(Primary Key) (Clustered) (< 0.01% Selectivity)*

Primary key (clustered) constraint

SalesOrderID
SalesOrderDetailID

AK_SalesOrderDetail_rowguid *(Unique) (< 0.01% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

IX_SalesOrderDetail_ProductID *(0.38% Selectivity)*

Nonclustered index.

ProductID

References:

Sales.SalesOrderHeader *(SalesOrderID)*

Sales.SpecialOfferProduct *(ProductID, SpecialOfferID)*

Triggers:

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.

Table Sales.SalesOrderHeader *(31,465 rows)*

General sales order information.

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

Indexes:

>**PK_SalesOrderHeader_SalesOrderID** *(Primary Key) (Clustered) (< 0.01% Selectivity)*
>
>>*Primary key (clustered) constraint*
>>
>>SalesOrderID
>
>**AK_SalesOrderHeader_rowguid** *(Unique) (< 0.01% Selectivity)*
>
>>*Unique nonclustered index. Used to support replication samples.*
>>
>>rowguid
>
>**AK_SalesOrderHeader_SalesOrderNumber** *(Unique) (< 0.01% Selectivity)*
>
>>*Unique nonclustered index.*
>>
>>SalesOrderNumber
>
>**IX_SalesOrderHeader_CustomerID** *(0.01% Selectivity)*
>
>>*Nonclustered index.*
>>
>>CustomerID
>
>**IX_SalesOrderHeader_SalesPersonID** *(5.56% Selectivity)*
>
>>*Nonclustered index.*
>>
>>SalesPersonID

References:

>**Person.Address** *(BillToAddressID -> AddressID)*
>
>**Person.Address** *(ShipToAddressID -> AddressID)*
>
>**Purchasing.ShipMethod** *(ShipMethodID)*
>
>**Sales.CreditCard** *(CreditCardID)*
>
>**Sales.CurrencyRate** *(CurrencyRateID)*
>
>**Sales.Customer** *(CustomerID)*
>
>**Sales.SalesPerson** *(SalesPersonID -> BusinessEntityID)*
>
>**Sales.SalesTerritory** *(TerritoryID)*

Referenced by:

>**Sales.SalesOrderDetail** *(SalesOrderID)*
>
>**Sales.SalesOrderHeaderSalesReason** *(SalesOrderID)*

Triggers:

>**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.*

Used by:

>**Trigger iduSalesOrderDetail** on **Sales.SalesOrderDetail**
>
>>CustomerID
>>SalesOrderID

SubTotal

View Sales.vSalesPersonSalesByFiscalYears

OrderDate
SalesPersonID
SubTotal

Table Sales.SalesOrderHeaderSalesReason *(27,647 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK, FK	SalesOrderID	int			
	Primary key. Foreign key to SalesOrderHeader.SalesOrderID.				
PK, FK	SalesReasonID	int			
	Primary key. Foreign key to SalesReason.SalesReasonID.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_SalesOrderHeaderSalesReason_SalesOrderID_SalesReasonID *(Primary Key) (Clustered) (< 0.01% Selectivity)*

 Primary key (clustered) constraint

 SalesOrderID
 SalesReasonID

References:

Sales.SalesOrderHeader *(SalesOrderID)*

Sales.SalesReason *(SalesReasonID)*

Table Sales.SalesPerson *(17 rows)*

Sales representative current information.

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

Indexes:

>   **PK_SalesPerson_BusinessEntityID** *(Primary Key) (Clustered) (5.88% Selectivity)*
>
>>   *Primary key (clustered) constraint*
>>
>>   BusinessEntityID
>
>   **AK_SalesPerson_rowguid** *(Unique) (5.88% Selectivity)*
>
>>   *Unique nonclustered index. Used to support replication samples.*
>>
>>   rowguid

References:

>   **HumanResources.Employee** *(BusinessEntityID)*
>
>   **Sales.SalesTerritory** *(TerritoryID)*

Referenced by:

>   **Sales.SalesOrderHeader** *(SalesPersonID -> BusinessEntityID)*
>
>   **Sales.SalesPersonQuotaHistory** *(BusinessEntityID)*
>
>   **Sales.SalesTerritoryHistory** *(BusinessEntityID)*
>
>   **Sales.Store** *(SalesPersonID -> BusinessEntityID)*

Used by:

>   **Trigger uSalesOrderHeader** on **Sales.SalesOrderHeader**
>
>>   BusinessEntityID
>>   SalesYTD
>
>   **View Sales.vSalesPerson**
>
>>   BusinessEntityID
>>   SalesLastYear

SalesQuota
SalesYTD
TerritoryID

View Sales.vSalesPersonSalesByFiscalYears

BusinessEntityID
TerritoryID

Table Sales.SalesPersonQuotaHistory *(163 rows)*

Sales performance tracking.

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Sales person identification number. Foreign key to SalesPerson.BusinessEntityID.				
PK	QuotaDate	datetime			
	Sales quota date.				
	SalesQuota	money			
	Sales quota amount.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_SalesPersonQuotaHistory_BusinessEntityID_QuotaDate *(Primary Key) (Clustered) (0.61% Selectivity)*

Primary key (clustered) constraint

BusinessEntityID
QuotaDate

AK_SalesPersonQuotaHistory_rowguid *(Unique) (0.61% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

References:

Sales.SalesPerson *(BusinessEntityID)*

Table Sales.SalesReason *(10 rows)*

Lookup table of customer purchase reasons.

	Column	Data Type	Identity	Nullable	Default
PK	SalesReasonID	int	X		
	Primary key for SalesReason records.				
	Name	Name(nvarchar(50))			
	Sales reason description.				
	ReasonType	Name(nvarchar(50))			
	Category the sales reason belongs to.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_SalesReason_SalesReasonID *(Primary Key) (Clustered) (10% Selectivity)*

Primary key (clustered) constraint

SalesReasonID

Referenced by:

Sales.SalesOrderHeaderSalesReason *(SalesReasonID)*

Table Sales.SalesTaxRate *(29 rows)*

Tax rate lookup table.

	Column	Data Type	Identity	Nullable	Default
PK	SalesTaxRateID	int	X		
	Primary key for SalesTaxRate records.				
UK, FK	StateProvinceID	int			
	State, province, or country/region the sales tax applies to.				
UK	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			0.00
	Tax rate amount.				
	Name	Name(nvarchar(50))			
	Tax rate description.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_SalesTaxRate_SalesTaxRateID *(Primary Key) (Clustered) (3.45% Selectivity)*

Primary key (clustered) constraint

SalesTaxRateID

AK_SalesTaxRate_rowguid *(Unique) (3.45% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

AK_SalesTaxRate_StateProvinceID_TaxType *(Unique) (3.45% Selectivity)*

Unique nonclustered index.

StateProvinceID
TaxType

References:

Person.StateProvince *(StateProvinceID)*

Table Sales.SalesTerritory *(10 rows)*

Sales territory lookup table.

	Column	Data Type	Identity	Nullable	Default
PK	TerritoryID	int	X		
	Primary key for SalesTerritory records.				
UK	Name	Name(nvarchar(50))			
	Sales territory description				
FK	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			0.00
	Sales in the territory year to date.				
	SalesLastYear	money			0.00
	Sales in the territory the previous year.				
	CostYTD	money			0.00
	Business costs in the territory year to date.				
	CostLastYear	money			0.00
	Business costs in the territory the previous year.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_SalesTerritory_TerritoryID *(Primary Key) (Clustered) (10% Selectivity)*

Primary key (clustered) constraint

TerritoryID

AK_SalesTerritory_Name *(Unique) (10% Selectivity)*

Unique nonclustered index.

Name

AK_SalesTerritory_rowguid *(Unique) (10% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

References:

Person.CountryRegion *(CountryRegionCode)*

Referenced by:

Person.StateProvince *(TerritoryID)*

Sales.Customer *(TerritoryID)*

Sales.SalesOrderHeader *(TerritoryID)*

Sales.SalesPerson *(TerritoryID)*

Sales.SalesTerritoryHistory *(TerritoryID)*

Used by:

Trigger uSalesOrderHeader on **Sales.SalesOrderHeader**

SalesYTD
TerritoryID

View Sales.vSalesPerson

Group
Name
TerritoryID

View Sales.vSalesPersonSalesByFiscalYears

Name
TerritoryID

Table Sales.SalesTerritoryHistory *(17 rows)*

Sales representative transfers to other sales territories.

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Primary key. The sales rep. Foreign key to SalesPerson.BusinessEntityID.				
PK, FK	TerritoryID	int			
	Primary key. Territory identification number. Foreign key to SalesTerritory.SalesTerritoryID.				
PK	StartDate	datetime			
	Primary key. Date the sales representive started work in the territory.				
	EndDate	datetime		X	
	Date the sales representative left work in the territory.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_SalesTerritoryHistory_BusinessEntityID_StartDate_TerritoryID *(Primary Key) (Clustered) (5.88% Selectivity)*

Primary key (clustered) constraint

BusinessEntityID
StartDate
TerritoryID

AK_SalesTerritoryHistory_rowguid *(Unique) (5.88% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

References:

Sales.SalesPerson *(BusinessEntityID)*

Sales.SalesTerritory *(TerritoryID)*

Table Sales.ShoppingCartItem *(3 rows)*

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

	Column	Data Type	Identity	Nullable	Default
PK	ShoppingCartItemID	int	X		
	Primary key for ShoppingCartItem records.				
	ShoppingCartID	nvarchar(50)			
	Shopping cart identification number.				
	Quantity	int			1
	Product quantity ordered.				
FK	ProductID	int			
	Product ordered. Foreign key to Product.ProductID.				
	DateCreated	datetime			getdate()
	Date the time the record was created.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_ShoppingCartItem_ShoppingCartItemID *(Primary Key) (Clustered) (33.33% Selectivity)*

Primary key (clustered) constraint

ShoppingCartItemID

IX_ShoppingCartItem_ShoppingCartID_ProductID *(33.33% Selectivity)*

Nonclustered index.

ShoppingCartID
ProductID

References:

Production.Product *(ProductID)*

Table Sales.SpecialOffer *(16 rows)*

Sale discounts lookup table.

	Column	Data Type	Identity	Nullable	Default
PK	SpecialOfferID	int	X		
	Primary key for SpecialOffer records.				
	Description	nvarchar(255)			
	Discount description.				
	DiscountPct	smallmoney			0.00
	Discount precentage.				
	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			0
	Minimum discount percent allowed.				
	MaxQty	int		X	
	Maximum discount percent allowed.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_SpecialOffer_SpecialOfferID *(Primary Key) (Clustered) (6.25% Selectivity)*

Primary key (clustered) constraint

SpecialOfferID

AK_SpecialOffer_rowguid *(Unique) (6.25% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

Referenced by:

Sales.SpecialOfferProduct *(SpecialOfferID)*

Table Sales.SpecialOfferProduct *(538 rows)*

Cross-reference table mapping products to special offer discounts.

	Column	Data Type	Identity	Nullable	Default
PK, FK	SpecialOfferID	int			
	Primary key for SpecialOfferProduct records.				
PK, FK	ProductID	int			
	Product identification number. Foreign key to Product.ProductID.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_SpecialOfferProduct_SpecialOfferID_ProductID *(Primary Key) (Clustered) (0.19% Selectivity)*

Primary key (clustered) constraint

SpecialOfferID
ProductID

AK_SpecialOfferProduct_rowguid *(Unique) (0.19% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

IX_SpecialOfferProduct_ProductID *(0.34% Selectivity)*

Nonclustered index.

ProductID

References:

Production.Product *(ProductID)*

Sales.SpecialOffer *(SpecialOfferID)*

Referenced by:

Sales.SalesOrderDetail *(ProductID, SpecialOfferID)*

Table Sales.Store *(701 rows)*

Customers (resellers) of Adventure Works products.

	Column	Data Type	Identity	Nullable	Default
PK, FK	BusinessEntityID	int			
	Primary key. Foreign key to Customer.BusinessEntityID.				
	Name	Name(nvarchar(50))			
	Name of the store.				
FK	SalesPersonID	int		X	
	ID of the sales person assigned to the customer. Foreign key to SalesPerson.BusinessEntityID.				
	Demographics	xml		X	
	Demographic informationg about the store such as the number of employees, annual sales and store type.				
UK	rowguid	uniqueidentifier			newid()
	ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.				
	ModifiedDate	datetime			getdate()
	Date and time the record was last updated.				

Indexes:

PK_Store_BusinessEntityID *(Primary Key) (Clustered) (0.14% Selectivity)*

Primary key (clustered) constraint

BusinessEntityID

AK_Store_rowguid *(Unique) (0.14% Selectivity)*

Unique nonclustered index. Used to support replication samples.

rowguid

PXML_Store_Demographics *(XML)*

Primary XML index.

Demographics

IX_Store_SalesPersonID *(7.69% Selectivity)*

Nonclustered index.

SalesPersonID

References:

Person.BusinessEntity *(BusinessEntityID)*

Sales.SalesPerson *(SalesPersonID -> BusinessEntityID)*

Referenced by:

Sales.Customer *(StoreID -> BusinessEntityID)*

Used by:

Function dbo.ufnGetContactInformation

BusinessEntityID

View Sales.vStoreWithAddresses

BusinessEntityID

Name

View Sales.vStoreWithContacts

BusinessEntityID
Name

View Sales.vStoreWithDemographics

BusinessEntityID
Demographics
Name

Views:

View HumanResources.vEmployee

Employee names and addresses.

Column	Data Type	Nullable
BusinessEntityID	int	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
JobTitle	nvarchar(50)	
PhoneNumber	Phone(nvarchar(25))	X
PhoneNumberType	Name(nvarchar(50))	X
EmailAddress	nvarchar(50)	X
EmailPromotion	int	
AddressLine1	nvarchar(60)	
AddressLine2	nvarchar(60)	X
City	nvarchar(30)	
StateProvinceName	Name(nvarchar(50))	
PostalCode	nvarchar(15)	
CountryRegionName	Name(nvarchar(50))	
AdditionalContactInfo	xml	X

Uses:

Table HumanResources.Employee

    BusinessEntityID
    JobTitle

Table Person.Address

    AddressID
    AddressLine1
    AddressLine2
    City
    PostalCode
    StateProvinceID

Table Person.BusinessEntityAddress

    AddressID
    BusinessEntityID

Table Person.CountryRegion

    CountryRegionCode
    Name

Table Person.EmailAddress

    BusinessEntityID
    EmailAddress

Table Person.Person

    AdditionalContactInfo
    BusinessEntityID
    EmailPromotion
    FirstName
    LastName
    MiddleName

Suffix
Title

Table Person.PersonPhone

BusinessEntityID
PhoneNumber
PhoneNumberTypeID

Table Person.PhoneNumberType

Name
PhoneNumberTypeID

Table Person.StateProvince

CountryRegionCode
Name
StateProvinceID

View HumanResources.vEmployeeDepartment

Returns employee name, title, and current department.

Column	Data Type	Nullable
BusinessEntityID	int	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
JobTitle	nvarchar(50)	
Department	Name(nvarchar(50))	
GroupName	Name(nvarchar(50))	
StartDate	date	

Uses:

Table HumanResources.Department

DepartmentID
GroupName
Name

Table HumanResources.Employee

BusinessEntityID
JobTitle

Table HumanResources.EmployeeDepartmentHistory

BusinessEntityID
DepartmentID
EndDate
StartDate

Table Person.Person

BusinessEntityID
FirstName
LastName
MiddleName
Suffix
Title

View HumanResources.vEmployeeDepartmentHistory

Returns employee name and current and previous departments.

Column	Data Type	Nullable
BusinessEntityID	int	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
Shift	Name(nvarchar(50))	
Department	Name(nvarchar(50))	
GroupName	Name(nvarchar(50))	
StartDate	date	
EndDate	date	X

Uses:

> **Table HumanResources.Department**
>
>> DepartmentID
>> GroupName
>> Name
>
> **Table HumanResources.Employee**
>
>> BusinessEntityID
>
> **Table HumanResources.EmployeeDepartmentHistory**
>
>> BusinessEntityID
>> DepartmentID
>> EndDate
>> ShiftID
>> StartDate
>
> **Table HumanResources.Shift**
>
>> Name
>> ShiftID
>
> **Table Person.Person**
>
>> BusinessEntityID
>> FirstName
>> LastName
>> MiddleName
>> Suffix
>> Title

View HumanResources.vJobCandidate

Job candidate names and resumes.

Column	Data Type	Nullable
JobCandidateID	int	
BusinessEntityID	int	X
Name.Prefix	nvarchar(30)	X
Name.First	nvarchar(30)	X
Name.Middle	nvarchar(30)	X
Name.Last	nvarchar(30)	X
Name.Suffix	nvarchar(30)	X
Skills	nvarchar(max)	X
Addr.Type	nvarchar(30)	X
Addr.Loc.CountryRegion	nvarchar(100)	X
Addr.Loc.State	nvarchar(100)	X
Addr.Loc.City	nvarchar(100)	X
Addr.PostalCode	nvarchar(20)	X
EMail	nvarchar(max)	X
WebSite	nvarchar(max)	X
ModifiedDate	datetime	

Uses:

Table HumanResources.JobCandidate

BusinessEntityID
JobCandidateID
ModifiedDate
Resume

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.

Column	Data Type	Nullable
JobCandidateID	int	
Edu.Level	nvarchar(max)	X
Edu.StartDate	datetime	X
Edu.EndDate	datetime	X
Edu.Degree	nvarchar(50)	X
Edu.Major	nvarchar(50)	X
Edu.Minor	nvarchar(50)	X
Edu.GPA	nvarchar(5)	X
Edu.GPAScale	nvarchar(5)	X
Edu.School	nvarchar(100)	X
Edu.Loc.CountryRegion	nvarchar(100)	X
Edu.Loc.State	nvarchar(100)	X
Edu.Loc.City	nvarchar(100)	X

Uses:

Table HumanResources.JobCandidate

JobCandidateID
Resume

View HumanResources.vJobCandidateEmployment

Displays the content from each employement history related element in the xml column Resume in the HumanResources.JobCandidate table. The content has been localized into French, Simplified Chinese and Thai. Some data may not display correctly unless supplemental language support is installed.

Column	Data Type	Nullable
JobCandidateID	int	
Emp.StartDate	datetime	X
Emp.EndDate	datetime	X
Emp.OrgName	nvarchar(100)	X
Emp.JobTitle	nvarchar(100)	X
Emp.Responsibility	nvarchar(max)	X
Emp.FunctionCategory	nvarchar(max)	X
Emp.IndustryCategory	nvarchar(max)	X
Emp.Loc.CountryRegion	nvarchar(max)	X
Emp.Loc.State	nvarchar(max)	X
Emp.Loc.City	nvarchar(max)	X

Uses:

Table HumanResources.JobCandidate

JobCandidateID
Resume

View Person.vAdditionalContactInfo

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

Column	Data Type	Nullable
BusinessEntityID	int	
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
TelephoneNumber	nvarchar(50)	X
TelephoneSpecialInstructions	nvarchar(max)	X
Street	nvarchar(50)	X
City	nvarchar(50)	X
StateProvince	nvarchar(50)	X
PostalCode	nvarchar(50)	X
CountryRegion	nvarchar(50)	X
HomeAddressSpecialInstructions	nvarchar(max)	X
EMailAddress	nvarchar(128)	X
EMailSpecialInstructions	nvarchar(max)	X
EMailTelephoneNumber	nvarchar(50)	X
rowguid	uniqueidentifier	
ModifiedDate	datetime	

Uses:

Table Person.Person

AdditionalContactInfo
BusinessEntityID
FirstName
LastName
MiddleName
ModifiedDate
rowguid

View Person.vStateProvinceCountryRegion

Joins StateProvince table with CountryRegion table.

Column	Data Type	Nullable
StateProvinceID	int	
StateProvinceCode	nchar(3)	
IsOnlyStateProvinceFlag	Flag(bit)	
StateProvinceName	Name(nvarchar(50))	
TerritoryID	int	
CountryRegionCode	nvarchar(3)	
CountryRegionName	Name(nvarchar(50))	

Uses:

Table Person.CountryRegion

CountryRegionCode
Name

Table Person.StateProvince

CountryRegionCode
IsOnlyStateProvinceFlag
Name
StateProvinceCode
StateProvinceID
TerritoryID

View Production.vProductAndDescription

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

Column	Data Type	Nullable
ProductID	int	
Name	Name(nvarchar(50))	
ProductModel	Name(nvarchar(50))	
CultureID	nchar(6)	
Description	nvarchar(400)	

Uses:

Table Production.Product

Name
ProductID
ProductModelID

Table Production.ProductDescription

Description
ProductDescriptionID

Table Production.ProductModel

Name
ProductModelID

Table Production.ProductModelProductDescriptionCulture

CultureID
ProductDescriptionID
ProductModelID

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.

Column	Data Type	Nullable
ProductModelID	int	
Name	Name(nvarchar(50))	
Summary	nvarchar(max)	X
Manufacturer	nvarchar(max)	X
Copyright	nvarchar(30)	X
ProductURL	nvarchar(256)	X
WarrantyPeriod	nvarchar(256)	X
WarrantyDescription	nvarchar(256)	X
NoOfYears	nvarchar(256)	X
MaintenanceDescription	nvarchar(256)	X
Wheel	nvarchar(256)	X
Saddle	nvarchar(256)	X
Pedal	nvarchar(256)	X
BikeFrame	nvarchar(max)	X
Crankset	nvarchar(256)	X
PictureAngle	nvarchar(256)	X
PictureSize	nvarchar(256)	X
ProductPhotoID	nvarchar(256)	X
Material	nvarchar(256)	X
Color	nvarchar(256)	X
ProductLine	nvarchar(256)	X
Style	nvarchar(256)	X
RiderExperience	nvarchar(1024)	X
rowguid	uniqueidentifier	
ModifiedDate	datetime	

Uses:

Table Production.ProductModel

CatalogDescription
ModifiedDate
Name
ProductModelID
rowguid

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.

Column	Data Type	Nullable
ProductModelID	int	
Name	Name(nvarchar(50))	
Instructions	nvarchar(max)	X
LocationID	int	X
SetupHours	decimal(9,4)	X
MachineHours	decimal(9,4)	X
LaborHours	decimal(9,4)	X
LotSize	int	X
Step	nvarchar(1024)	X
rowguid	uniqueidentifier	
ModifiedDate	datetime	

Uses:

      Table Production.ProductModel

           Instructions
           ModifiedDate
           Name
           ProductModelID
           rowguid

View Purchasing.vVendorWithAddresses

Vendor (company) names and addresses .

Column	Data Type	Nullable
BusinessEntityID	int	
Name	Name(nvarchar(50))	
AddressType	Name(nvarchar(50))	
AddressLine1	nvarchar(60)	
AddressLine2	nvarchar(60)	X
City	nvarchar(30)	
StateProvinceName	Name(nvarchar(50))	
PostalCode	nvarchar(15)	
CountryRegionName	Name(nvarchar(50))	

Uses:

Table Person.Address

AddressID
AddressLine1
AddressLine2
City
PostalCode
StateProvinceID

Table Person.AddressType

AddressTypeID
Name

Table Person.BusinessEntityAddress

AddressID
AddressTypeID
BusinessEntityID

Table Person.CountryRegion

CountryRegionCode
Name

Table Person.StateProvince

CountryRegionCode
Name
StateProvinceID

Table Purchasing.Vendor

BusinessEntityID
Name

View Purchasing.vVendorWithContacts

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

Column	Data Type	Nullable
BusinessEntityID	int	
Name	Name(nvarchar(50))	
ContactType	Name(nvarchar(50))	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
PhoneNumber	Phone(nvarchar(25))	X
PhoneNumberType	Name(nvarchar(50))	X
EmailAddress	nvarchar(50)	X
EmailPromotion	int	

Uses:

Table Person.BusinessEntityContact

BusinessEntityID
ContactTypeID
PersonID

Table Person.ContactType

ContactTypeID
Name

Table Person.EmailAddress

BusinessEntityID
EmailAddress

Table Person.Person

BusinessEntityID
EmailPromotion
FirstName
LastName
MiddleName
Suffix
Title

Table Person.PersonPhone

BusinessEntityID
PhoneNumber
PhoneNumberTypeID

Table Person.PhoneNumberType

Name
PhoneNumberTypeID

Table Purchasing.Vendor

BusinessEntityID
Name

View Sales.vIndividualCustomer

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

Column	Data Type	Nullable
BusinessEntityID	int	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
PhoneNumber	Phone(nvarchar(25))	X
PhoneNumberType	Name(nvarchar(50))	X
EmailAddress	nvarchar(50)	X
EmailPromotion	int	
AddressType	Name(nvarchar(50))	
AddressLine1	nvarchar(60)	
AddressLine2	nvarchar(60)	X
City	nvarchar(30)	
StateProvinceName	Name(nvarchar(50))	
PostalCode	nvarchar(15)	
CountryRegionName	Name(nvarchar(50))	
Demographics	xml	X

Uses:

> **Table Person.Address**
>
>> AddressID
>> AddressLine1
>> AddressLine2
>> City
>> PostalCode
>> StateProvinceID
>
> **Table Person.AddressType**
>
>> AddressTypeID
>> Name
>
> **Table Person.BusinessEntityAddress**
>
>> AddressID
>> AddressTypeID
>> BusinessEntityID
>
> **Table Person.CountryRegion**
>
>> CountryRegionCode
>> Name
>
> **Table Person.EmailAddress**
>
>> BusinessEntityID
>> EmailAddress
>
> **Table Person.Person**
>
>> BusinessEntityID
>> Demographics
>> EmailPromotion
>> FirstName
>> LastName
>> MiddleName
>> Suffix

Title

Table Person.PersonPhone

BusinessEntityID
PhoneNumber
PhoneNumberTypeID

Table Person.PhoneNumberType

Name
PhoneNumberTypeID

Table Person.StateProvince

CountryRegionCode
Name
StateProvinceID

Table Sales.Customer

PersonID
StoreID

View Sales.vPersonDemographics

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

Column	Data Type	Nullable
BusinessEntityID	int	
TotalPurchaseYTD	money	X
DateFirstPurchase	datetime	X
BirthDate	datetime	X
MaritalStatus	nvarchar(1)	X
YearlyIncome	nvarchar(30)	X
Gender	nvarchar(1)	X
TotalChildren	int	X
NumberChildrenAtHome	int	X
Education	nvarchar(30)	X
Occupation	nvarchar(30)	X
HomeOwnerFlag	bit	X
NumberCarsOwned	int	X

Uses:

Table Person.Person

BusinessEntityID
Demographics

View Sales.vSalesPerson

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

Column	Data Type	Nullable
BusinessEntityID	int	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
JobTitle	nvarchar(50)	
PhoneNumber	Phone(nvarchar(25))	X
PhoneNumberType	Name(nvarchar(50))	X
EmailAddress	nvarchar(50)	X
EmailPromotion	int	
AddressLine1	nvarchar(60)	
AddressLine2	nvarchar(60)	X
City	nvarchar(30)	
StateProvinceName	Name(nvarchar(50))	
PostalCode	nvarchar(15)	
CountryRegionName	Name(nvarchar(50))	
TerritoryName	Name(nvarchar(50))	X
TerritoryGroup	nvarchar(50)	X
SalesQuota	money	X
SalesYTD	money	
SalesLastYear	money	

Uses:

Table HumanResources.Employee

BusinessEntityID
JobTitle

Table Person.Address

AddressID
AddressLine1
AddressLine2
City
PostalCode
StateProvinceID

Table Person.BusinessEntityAddress

AddressID
BusinessEntityID

Table Person.CountryRegion

CountryRegionCode
Name

Table Person.EmailAddress

BusinessEntityID
EmailAddress

Table Person.Person

BusinessEntityID
EmailPromotion
FirstName
LastName

MiddleName
Suffix
Title

Table Person.PersonPhone

BusinessEntityID
PhoneNumber
PhoneNumberTypeID

Table Person.PhoneNumberType

Name
PhoneNumberTypeID

Table Person.StateProvince

CountryRegionCode
Name
StateProvinceID

Table Sales.SalesPerson

BusinessEntityID
SalesLastYear
SalesQuota
SalesYTD
TerritoryID

Table Sales.SalesTerritory

Group
Name
TerritoryID

View Sales.vSalesPersonSalesByFiscalYears

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

Column	Data Type	Nullable
SalesPersonID	int	X
FullName	nvarchar(152)	X
JobTitle	nvarchar(50)	
SalesTerritory	Name(nvarchar(50))	
2002	money	X
2003	money	X
2004	money	X

Uses:

Table HumanResources.Employee

BusinessEntityID
JobTitle

Table Person.Person

BusinessEntityID
FirstName
LastName
MiddleName

Table Sales.SalesOrderHeader

OrderDate
SalesPersonID
SubTotal

Table Sales.SalesPerson

BusinessEntityID
TerritoryID

Table Sales.SalesTerritory

Name
TerritoryID

View Sales.vStoreWithAddresses

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

Column	Data Type	Nullable
BusinessEntityID	int	
Name	Name(nvarchar(50))	
AddressType	Name(nvarchar(50))	
AddressLine1	nvarchar(60)	
AddressLine2	nvarchar(60)	X
City	nvarchar(30)	
StateProvinceName	Name(nvarchar(50))	
PostalCode	nvarchar(15)	
CountryRegionName	Name(nvarchar(50))	

Uses:

Table Person.Address

AddressID
AddressLine1
AddressLine2
City
PostalCode
StateProvinceID

Table Person.AddressType

AddressTypeID
Name

Table Person.BusinessEntityAddress

AddressID
AddressTypeID
BusinessEntityID

Table Person.CountryRegion

CountryRegionCode
Name

Table Person.StateProvince

CountryRegionCode
Name
StateProvinceID

Table Sales.Store

BusinessEntityID
Name

View Sales.vStoreWithContacts

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

Column	Data Type	Nullable
BusinessEntityID	int	
Name	Name(nvarchar(50))	
ContactType	Name(nvarchar(50))	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
PhoneNumber	Phone(nvarchar(25))	X
PhoneNumberType	Name(nvarchar(50))	X
EmailAddress	nvarchar(50)	X
EmailPromotion	int	

Uses:

Table Person.BusinessEntityContact

BusinessEntityID
ContactTypeID
PersonID

Table Person.ContactType

ContactTypeID
Name

Table Person.EmailAddress

BusinessEntityID
EmailAddress

Table Person.Person

BusinessEntityID
EmailPromotion
FirstName
LastName
MiddleName
Suffix
Title

Table Person.PersonPhone

BusinessEntityID
PhoneNumber
PhoneNumberTypeID

Table Person.PhoneNumberType

Name
PhoneNumberTypeID

Table Sales.Store

BusinessEntityID
Name

View Sales.vStoreWithDemographics

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

Column	Data Type	Nullable
BusinessEntityID	int	
Name	Name(nvarchar(50))	
AnnualSales	money	X
AnnualRevenue	money	X
BankName	nvarchar(50)	X
BusinessType	nvarchar(5)	X
YearOpened	int	X
Specialty	nvarchar(50)	X
SquareFeet	int	X
Brands	nvarchar(30)	X
Internet	nvarchar(30)	X
NumberEmployees	int	X

Uses:

Table Sales.Store

BusinessEntityID
Demographics
Name

Procedures:

Procedure dbo.uspGetBillOfMaterials

Stored procedure using a recursive query to return a multi-level bill of material for the specified ProductID.

Parameter	Data Type	Default	Is Output
@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.			

Result:

Column	Data Type	Nullable
ProductAssemblyID	int	X
ComponentID	int	X
ComponentDesc	nvarchar(50)	X
TotalQuantity	decimal(38,2)	X
StandardCost	money	X
ListPrice	money	X
BOMLevel	smallint	X
RecursionLevel	int	X

Uses:

Table Production.BillOfMaterials

BOMLevel
ComponentID
EndDate
PerAssemblyQty
ProductAssemblyID
StartDate

Table Production.Product

ListPrice
Name
ProductID
StandardCost

Procedure dbo.uspGetEmployeeManagers

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

Parameter	Data Type	Default	Is Output
@BusinessEntityID	int		
Input parameter for the stored procedure uspGetEmployeeManagers. Enter a valid BusinessEntityID from the HumanResources.Employee table.			

Result:

Column	Data Type	Nullable
RecursionLevel	int	X
BusinessEntityID	int	X
FirstName	nvarchar(50)	X
LastName	nvarchar(50)	X
OrganizationNode	nvarchar(4000)	X
ManagerFirstName	nvarchar(50)	
ManagerLastName	nvarchar(50)	

Uses:

Table HumanResources.Employee

BusinessEntityID
JobTitle
OrganizationNode

Table Person.Person

BusinessEntityID
FirstName
LastName

Procedure dbo.uspGetManagerEmployees

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

Parameter	Data Type	Default	Is Output
@BusinessEntityID	int		
Input parameter for the stored procedure uspGetManagerEmployees. Enter a valid BusinessEntityID of the manager from the HumanResources.Employee table.			

Result:

Column	Data Type	Nullable
RecursionLevel	int	X
OrganizationNode	nvarchar(4000)	X
ManagerFirstName	nvarchar(50)	
ManagerLastName	nvarchar(50)	
BusinessEntityID	int	X
FirstName	nvarchar(50)	X
LastName	nvarchar(50)	X

Uses:

Table HumanResources.Employee

BusinessEntityID
OrganizationNode

Table Person.Person

BusinessEntityID
FirstName
LastName

Procedure dbo.uspGetWhereUsedProductID

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

Parameter	Data Type	Default	Is Output
@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.			

Result:

Column	Data Type	Nullable
ProductAssemblyID	int	X
ComponentID	int	X
ComponentDesc	nvarchar(50)	X
TotalQuantity	decimal(38,2)	X
StandardCost	money	X
ListPrice	money	X
BOMLevel	smallint	X
RecursionLevel	int	X

Uses:

Table Production.BillOfMaterials

BOMLevel
ComponentID
EndDate
PerAssemblyQty
ProductAssemblyID
StartDate

Table Production.Product

ListPrice
Name
ProductID
StandardCost

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.

Parameter	Data Type	Default	Is Output
@ErrorLogID	int	0	X
Output parameter for the stored procedure uspLogError. Contains the ErrorLogID value corresponding to the row inserted by uspLogError in the ErrorLog table.			

Used by:

Procedure HumanResources.uspUpdateEmployeeHireInfo

Procedure HumanResources.uspUpdateEmployeeLogin

Procedure HumanResources.uspUpdateEmployeePersonalInfo

Trigger iWorkOrder on **Production.WorkOrder**

Trigger uWorkOrder on **Production.WorkOrder**

Trigger iPurchaseOrderDetail on **Purchasing.PurchaseOrderDetail**

Trigger uPurchaseOrderDetail on **Purchasing.PurchaseOrderDetail**

Trigger uPurchaseOrderHeader on **Purchasing.PurchaseOrderHeader**

Trigger dVendor on **Purchasing.Vendor**

Trigger iduSalesOrderDetail on **Sales.SalesOrderDetail**

Trigger uSalesOrderHeader on **Sales.SalesOrderHeader**

Uses:

Procedure dbo.uspPrintError

Table dbo.ErrorLog

ErrorLine
ErrorMessage
ErrorNumber
ErrorProcedure
ErrorSeverity
ErrorState
UserName

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.

No parameters.

Used by:

Procedure dbo.uspLogError

Trigger iWorkOrder on **Production.WorkOrder**

Trigger uWorkOrder on **Production.WorkOrder**

Trigger iPurchaseOrderDetail on **Purchasing.PurchaseOrderDetail**

Trigger uPurchaseOrderDetail on **Purchasing.PurchaseOrderDetail**

Trigger uPurchaseOrderHeader on **Purchasing.PurchaseOrderHeader**

Trigger dVendor on **Purchasing.Vendor**

Trigger iduSalesOrderDetail on **Sales.SalesOrderDetail**

Trigger uSalesOrderHeader on **Sales.SalesOrderHeader**

Procedure dbo.uspSearchCandidateResumes

Parameter	Data Type	Default	Is Output
@searchString	nvarchar(1000)		
@useInflectional	bit	0	
@useThesaurus	bit	0	
@language	int	0	

Uses:

Table HumanResources.JobCandidate

JobCandidateID
Resume

Procedure HumanResources.uspUpdateEmployeeHireInfo

Updates the Employee table and inserts a new row in the EmployeePayHistory table with the values specified in the input parameters.

Parameter	Data Type	Default	Is Output
@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	Flag(bit)		
Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the current flag for the employee.			

Uses:

Procedure dbo.uspLogError

Table HumanResources.Employee

BusinessEntityID
CurrentFlag
HireDate
JobTitle

Table HumanResources.EmployeePayHistory

BusinessEntityID
PayFrequency
Rate
RateChangeDate

Procedure HumanResources.uspUpdateEmployeeLogin

Updates the Employee table with the values specified in the input parameters for the given BusinessEntityID.

Parameter	Data Type	Default	Is Output
@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	Flag(bit)		
Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the current flag for the employee.			

Uses:

Procedure dbo.uspLogError

Table HumanResources.Employee

BusinessEntityID
CurrentFlag
HireDate
JobTitle
LoginID
OrganizationNode

Procedure HumanResources.uspUpdateEmployeePersonalInfo

Updates the Employee table with the values specified in the input parameters for the given EmployeeID.

Parameter	Data Type	Default	Is Output
@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.			

Uses:

> **Procedure dbo.uspLogError**

> **Table HumanResources.Employee**

> > BirthDate
> > BusinessEntityID
> > Gender
> > MaritalStatus
> > NationalIDNumber

Functions:

Scalar Function dbo.ufnGetAccountingEndDate

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

No parameters.

Result:

Data Type	Nullable
datetime	X

Scalar Function dbo.ufnGetAccountingStartDate

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

No parameters.

Result:

Data Type	Nullable
datetime	X

Multistatement Table Valued Function dbo.ufnGetContactInformation

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

Parameter	Data Type	Default
@PersonID	int	
Input parameter for the table value function ufnGetContactInformation. Enter a valid PersonID from the Person.Contact table.		

Result:

Column	Data Type	Nullable
PersonID	int	
FirstName	nvarchar(50)	X
LastName	nvarchar(50)	X
JobTitle	nvarchar(50)	X
BusinessEntityType	nvarchar(50)	X

Uses:

Table HumanResources.Employee

BusinessEntityID
JobTitle

Table Person.BusinessEntityContact

BusinessEntityID
ContactTypeID
PersonID

Table Person.ContactType

ContactTypeID
Name

Table Person.Person

BusinessEntityID
FirstName
LastName

Table Purchasing.Vendor

BusinessEntityID

Table Sales.Customer

PersonID
StoreID

Table Sales.Store

BusinessEntityID

Scalar Function dbo.ufnGetDocumentStatusText

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

Parameter	Data Type	Default
@Status	tinyint	
Input parameter for the scalar function ufnGetDocumentStatusText. Enter a valid integer.		

Result:

Data Type	Nullable
nvarchar(16)	X

Scalar Function dbo.ufnGetProductDealerPrice

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

Parameter	Data Type	Default
@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.		

Result:

Data Type	Nullable
money	X

Uses:

Table Production.Product

ProductID

Table Production.ProductListPriceHistory

EndDate
ListPrice
ProductID
StartDate

Scalar Function dbo.ufnGetProductListPrice

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

Parameter	Data Type	Default
@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.		

Result:

Data Type	Nullable
money	X

Uses:

Table Production.Product

ProductID

Table Production.ProductListPriceHistory

EndDate
ListPrice
ProductID
StartDate

Scalar Function dbo.ufnGetProductStandardCost

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

Parameter	Data Type	Default
@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.		

Result:

Data Type	Nullable
money	X

Uses:

Table Production.Product

ProductID

Table Production.ProductCostHistory

EndDate
ProductID
StandardCost
StartDate

Scalar Function dbo.ufnGetPurchaseOrderStatusText

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

Parameter	Data Type	Default
@Status	tinyint	
Input parameter for the scalar function ufnGetPurchaseOrdertStatusText. Enter a valid integer.		

Result:

Data Type	Nullable
nvarchar(15)	X

Scalar Function dbo.ufnGetSalesOrderStatusText

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

Parameter	Data Type	Default
@Status	tinyint	
Input parameter for the scalar function ufnGetSalesOrderStatusText. Enter a valid integer.		

Result:

Data Type	Nullable
nvarchar(15)	X

Scalar Function dbo.ufnGetStock

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

Parameter	Data Type	Default
@ProductID	int	
Input parameter for the scalar function ufnGetStock. Enter a valid ProductID from the Production.ProductInventory table.		

Result:

Data Type	Nullable
int	X

Uses:

Table Production.ProductInventory

LocationID
ProductID
Quantity

Scalar Function dbo.ufnLeadingZeros

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

Parameter	Data Type	Default
@Value	int	
Input parameter for the scalar function ufnLeadingZeros. Enter a valid integer.		

Result:

Data Type	Nullable
varchar(8)	X

Used by:

Table Sales.Customer