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```

graph LR
    AWPBuildVersion[AWPBuildVersion] -- "SystemInformationID" --> ErrorLog[ErrorLog]
    ErrorLog -- "ErrorMessage" --> DatabaseLog[DatabaseLog]
  
```

AWPBuildVersion	
PK	SystemInformationID
-	DatabaseVersion
-	VersionDate
-	ModifiedDate

ErrorLog	
PK	ErrorLogID
-	ErrorTime
-	UserName
-	ErrorNumber
-	ErrorSeverity
-	ErrorState
-	ErrorProcedure
-	ErrorLine
-	ErrorMessage

DatabaseLog	
PK	DatabaseLogID
-	PostTime
-	DatabaseUser
-	Event
-	Schema
-	Object
-	TSOL
-	XmlEvent

AWBBuildVersion		PK	ErrorLogID	DatabaseLog
PK	SystemInformationID		ErrorTime	PostTime
-	Database Version		UserName	DatabaseUser
-	VersionDate		ErrorNumber	Event
-	ModifiedDate		ErrorSeverity	Schema
			ErrorState	Object
			ErrorProcedure	SQL
			ErrorLine	XmlEvent
			ErrorMessage	

# HumanResources

```

    erDiagram
        EmployeeDepartmentHistory ||--o{ Department : "has"
        EmployeeDepartmentHistory ||--o{ Shift : "has"
        EmployeeDepartmentHistory ||--o{ JobCandidate : "has"
        EmployeeDepartmentHistory ||--o{ EmployeePayHistory : "has"
        EmployeeDepartmentHistory ||--o{ Employee : "has"

        EmployeeDepartmentHistory {
            string BusinessEntityID PK_FK2
            string DepartmentID PK_FK1
            string StartDate PK
            string ShiftID PK_FK3
            string EndDate
            string ModifiedDate
        }
        Department {
            string DepartmentID PK
            string Name U1
            string GroupName
            string ModifiedDate
        }
        Shift {
            string ShiftID PK
            string Name U1
            string StartTime U2
            string EndTime U2
            string ModifiedDate
        }
        JobCandidate {
            string BusinessEntityID PK_FK1
            string JobCandidateID PK
            string Resume
            string ModifiedDate
        }
        Employee {
            string NationalIDN PK_FK1
            string LoginID U2
            string ShiftID U1
            string JobTitle
            string BirthDate
            string MaritalStatus
            string Gender
            string HireDate
            string SalariedFlag
            string VacationHours
            string SickLeaveHours
            string CurrentFlag
            string rowguid
            string ModifiedDate U3
        }
        EmployeePayHistory {
            string BusinessEntityID PK_FK1
            string RateChangeDate PK
            string Rate
            string PayFrequency
            string ModifiedDate
        }
  
```

The diagram illustrates the following tables and their attributes:

- EmployeeDepartmentHistory**
  - Attributes: BusinessEntityID (PK\_FK2), DepartmentID (PK\_FK1), StartDate (PK), ShiftID (PK\_FK3), EndDate, ModifiedDate
- Department**
  - Attributes: DepartmentID (PK), Name (U1), GroupName, ModifiedDate
- Shift**
  - Attributes: ShiftID (PK), Name (U1), StartTime (U2), EndTime (U2), ModifiedDate
- JobCandidate**
  - Attributes: BusinessEntityID (PK\_FK1), JobCandidateID (PK), Resume, ModifiedDate
- Employee**
  - Attributes: NationalIDN (PK\_FK1), LoginID (U2), ShiftID (U1), JobTitle, BirthDate, MaritalStatus, Gender, HireDate, SalariedFlag, VacationHours, SickLeaveHours, CurrentFlag, rowguid, ModifiedDate (U3)
- EmployeePayHistory**
  - Attributes: BusinessEntityID (PK\_FK1), RateChangeDate (PK), Rate, PayFrequency, ModifiedDate

Relationships are indicated by arrows from the primary key of one table to the foreign key of another:

- EmployeeDepartmentHistory to Department (BusinessEntityID to DepartmentID)
- EmployeeDepartmentHistory to Shift (ShiftID to ShiftID)
- EmployeeDepartmentHistory to JobCandidate (BusinessEntityID to BusinessEntityID)
- EmployeeDepartmentHistory to EmployeePayHistory (BusinessEntityID to BusinessEntityID)
- EmployeeDepartmentHistory to Employee (BusinessEntityID to NationalIDN)

```

    erDiagram
        Department ||--o{ EmployeeDepartmentHistory : "has"
        Department ||--o{ Employee : "has"
        EmployeeDepartmentHistory ||--o{ Shift : "has"
        EmployeeDepartmentHistory ||--o{ JobCandidate : "has"
        EmployeeDepartmentHistory ||--o{ EmployeePayHistory : "has"
        Shift ||--o{ Employee : "has"
        JobCandidate ||--o{ Employee : "has"
        EmployeePayHistory ||--o{ Employee : "has"

        Department {
            string DepartmentID PK
            string Name
            string GroupName
            string ModifiedDate
        }

        EmployeeDepartmentHistory {
            string BusinessEntityID FK
            string DepartmentID FK
            string StartDate
            string ShiftID FK
            string EndDate
            string ModifiedDate
        }

        Shift {
            string ShiftID PK
            string Name
            string StartTime
            string EndTime
            string ModifiedDate
        }

        JobCandidate {
            string BusinessEntityID FK
            string JobCandidateID PK
            string Resume
            string ModifiedDate
        }

        Employee {
            string BusinessEntityID PK, FK1
            string NationalIDNumber
            string LoginID
            string ShiftID
            string JobTitle
            string BirthDate
            string MaritalStatus
            string Gender
            string HireDate
            string SalariedFlag
            string VacationHours
            string SickLeaveHours
            string CurrentFlag
            string rowguid
            string ModifiedDate
        }

        EmployeePayHistory {
            string BusinessEntityID FK1
            string RateChangeDate FK
            string Rate
            string PayFrequency
            string ModifiedDate
        }
  
```

The diagram illustrates the following relationships:

- Department** (PK: DepartmentID) is associated with **EmployeeDepartmentHistory** (FK: BusinessEntityID, FK: DepartmentID), **Employee** (FK: BusinessEntityID), and **EmployeePayHistory** (FK: BusinessEntityID).
- EmployeeDepartmentHistory** (FK: ShiftID) is associated with **Shift** (PK: ShiftID).
- EmployeeDepartmentHistory** (FK: JobCandidateID) is associated with **JobCandidate** (FK: BusinessEntityID, PK: JobCandidateID).
- EmployeeDepartmentHistory** (FK: EndDate, FK: ModifiedDate) is associated with **EmployeePayHistory** (FK: RateChangeDate, FK: ModifiedDate).
- Shift** (FK: EmployeeID) is associated with **Employee** (FK: BusinessEntityID).
- JobCandidate** (FK: EmployeeID) is associated with **Employee** (FK: BusinessEntityID).
- EmployeePayHistory** (FK: EmployeeID) is associated with **Employee** (FK: BusinessEntityID).

## Schemas



- Sales
- Purchasing
- Person
- Production
- HumanResources
- dbo

dbo

The diagram illustrates the database schema for AdventureWorks, showing the relationships between various tables and their attributes. The tables and their attributes are as follows:

- SalesPerson**:
  - PK,FK1: BusinessEntityID
  - FK2: TerritoryID
  - SalesQuota
  - Bonus
  - CommissionPct
  - SalesYTD
  - SalesLastYear
  - rowguid
  - ModifiedDate
- SalesTerritory**:
  - PK: TerritoryID
  - U1: Name
  - : CountryRegionCode
  - : Group
  - : SalesYTD
  - : SalesLastYear
  - : CostYTD
  - : CostLastYear
  - rowguid
  - ModifiedDate
- Customer**:
  - PK: CustomerID
  - FK2: PersonID
  - FK3: StoreID
  - FK1: TerritoryID
  - U1: AccountNumber
  - U2: rowguid
  - : ModifiedDate
- Store**:
  - PK,FK1,FK2: BusinessEntityID
  - U1: Name
  - : Demographics
  - rowguid
  - ModifiedDate
- SalesOrderHeader**:
  - PK,FK5: BusinessEntityID
  - PK: SalesOrderID
  - FK7: ShipMethodID
  - RevisionNumber
  - OrderDate
  - DueDate
  - ShipDate
  - Status
  - OnlineOrderFlag
  - SalesOrderNumber
  - PurchaseOrderNumber
  - AccountNumber
  - TerritoryID
  - FK6: BillToAddressID
  - FK1: ShipToAddressID
  - FK2: CreditCardID
  - FK8: CreditCardApprovalCode
  - CurrencyRateID
  - FK4: SubTotal
  - TaxAmt
  - Freight
  - TotalDue
  - Comment
  - rowguid
  - ModifiedDate
- CreditCard**:
  - PK: CreditCardID
  - U1: CardType
  - CardNumber
  - ExpMonth
  - ExpYear
  - ModifiedDate
- PersonCreditCard**:
  - PK,FK2: BusinessEntityID
  - PK,FK1: CreditCardID
  - ModifiedDate
- SalesPersonQuotaHistory**:
  - PK,FK1: BusinessEntityID
  - PK: QuotaDate
  - U1: SalesQuota
  - rowguid
  - ModifiedDate
- SalesTerritoryHistory**:
  - PK,FK1: BusinessEntityID
  - PK,FK2: TerritoryID
  - PK: StartDate
  - U1: EndDate
  - rowguid
  - ModifiedDate

The relationships between the tables are indicated by lines with crow's foot notation:

- SalesPerson** to **SalesTerritory**: One-to-many relationship. SalesPerson (PK,FK1) is connected to SalesTerritory (FK2) with a cardinality of 1 to U1.
- SalesTerritory** to **Customer**: One-to-many relationship. SalesTerritory (PK) is connected to Customer (FK1) with a cardinality of 1 to U1.
- Customer** to **Store**: One-to-many relationship. Customer (FK2) is connected to Store (FK1,FK2) with a cardinality of 1 to U1.
- SalesOrderHeader** to **SalesPerson**: One-to-many relationship. SalesOrderHeader (PK,FK5) is connected to SalesPerson (FK2) with a cardinality of 1 to U1.
- SalesOrderHeader** to **SalesTerritory**: One-to-many relationship. SalesOrderHeader (FK7) is connected to SalesTerritory (PK) with a cardinality of 1 to U1.
- SalesOrderHeader** to **CreditCard**: One-to-many relationship. SalesOrderHeader (FK2) is connected to CreditCard (PK) with a cardinality of 1 to U1.
- SalesOrderHeader** to **PersonCreditCard**: One-to-many relationship. SalesOrderHeader (FK8) is connected to PersonCreditCard (PK,FK2) with a cardinality of 1 to U1.
- SalesOrderHeader** to **SalesPersonQuotaHistory**: One-to-many relationship. SalesOrderHeader (FK5) is connected to SalesPersonQuotaHistory (PK,FK1) with a cardinality of 1 to U1.
- SalesOrderHeader** to **SalesTerritoryHistory**: One-to-many relationship. SalesOrderHeader (FK7) is connected to SalesTerritoryHistory (PK,FK1) with a cardinality of 1 to U1.

The diagram illustrates the database schema for AdventureWorks, showing the following tables and their attributes:

- SalesPerson**
  - PK, FK1: BusinessEntityID
  - FK2: TerritoryID
  - SalesQuota
  - Bonus
  - CommissionPct
  - SalesYTD
  - SalesLastYear
  - rowguid
  - ModifiedDate
- SalesTerritory**
  - PK: TerritoryID
  - U1: Name
  - CountryRegionCode
  - Group
  - SalesYTD
  - SalesLastYear
  - CostYTD
  - CostLastYear
  - rowguid
  - ModifiedDate
- Customer**
  - PK: CustomerID
  - FK2: PersonID
  - FK3: StoreID
  - FK1: TerritoryID
  - U1: AccountNumber
  - U2: rowguid
  - ModifiedDate
- Store**
  - PK, FK1, FK2: BusinessEntityID
  - U1: Name
  - Demographics
  - rowguid
  - ModifiedDate
- SalesPersonQuotaHistory**
  - PK, FK1: BusinessEntityID
  - PK: QuotaDate
  - U1: SalesQuota
  - rowguid
  - ModifiedDate
- SalesTerritoryHistory**
  - PK, FK1: BusinessEntityID
  - PK, FK2: TerritoryID
  - PK: StartDate
  - U1: EndDate
  - rowguid
  - ModifiedDate
- SalesOrderHeader**
  - PK, FK5: BusinessEntityID
  - PK: SalesOrderID
  - FK7: ShipMethodID
  - RevisionNumber
  - OrderDate
  - DueDate
  - ShipDate
  - Status
  - OnlineOrderFlag
  - U2: SalesOrderNumber
  - PurchaseOrderNumber
  - AccountNumber
  - FK6: TerritoryID
  - FK1: BillToAddressID
  - FK2: ShipToAddressID
  - FK8: CreditCardID
  - FK4: CreditCardApprovalCode
  - CurrencyRateID
  - SubTotal
  - TaxAmt
  - Freight
  - TotalDue
  - U1: Comment
  - rowguid
  - ModifiedDate
- PersonCreditCard**
  - PK, FK2: BusinessEntityID
  - PK, FK1: CreditCardID
  - ModifiedDate
- CreditCard**
  - PK: CreditCardID
  - U1: CardType
  - CardNumber
  - ExpMonth
  - ExpYear
  - ModifiedDate

Relationships are indicated by lines connecting the tables and their attributes, with cardinality notations (e.g., U1, U2, U1, U1) at the ends of the lines.

# Person

```

    erDiagram
        Password ||--o{ Person : "has"
        Address ||--o{ Person : "has"
        StateProvince ||--o{ Person : "has"
        CountryRegion ||--o{ Person : "has"
        BusinessEntity ||--o{ Person : "has"
        BusinessEntityContact ||--o{ Person : "has"
        ContactType ||--o{ Person : "has"
        BusinessEntityAddress ||--o{ Person : "has"
        EmailAddress ||--o{ Person : "has"
        PersonPhone ||--o{ Person : "has"
        PhoneNumberType ||--o{ PersonPhone : "has"

        Password {
            string BusinessEntityID PK,FK1
            string PasswordHash
            string PasswordSalt
        }
        Address {
            string AddressID PK
            string AddressLine1
            string AddressLine2
            string City
            string StateProvinceID FK1,U2
            string PostalCode
            string SpatialLocation
            string rowguid
            string ModifiedDate
        }
        StateProvince {
            string StateProvinceID PK
            string StateProvinceCode U3
            string CountryRegionCode FK1,U3
            bool IsOnlyStateProvinceFlag
            string Name
            string TerritoryID
            string rowguid
            string ModifiedDate
        }
        CountryRegion {
            string CountryRegionCode PK
            string Name
            string ModifiedDate
        }
        BusinessEntity {
            string BusinessEntityID PK
            string rowguid
            string ModifiedDate
        }
        BusinessEntityContact {
            string BusinessEntityID PK,FK3
            string PersonID PK,FK1
            string ContactTypeID FK2
            string ModifiedDate
        }
        ContactType {
            string ContactTypeID PK
            string Name
            string ModifiedDate
        }
        BusinessEntityAddress {
            string AddressID PK,FK3
            string BusinessEntityID PK,FK2
            string AddressTypeID FK1
            string ModifiedDate
        }
        EmailAddress {
            string BusinessEntityID PK,FK1
            string EmailAddressID PK
            string EmailAddress
        }
        PersonPhone {
            string BusinessEntityID PK,FK1
            string PhoneID PK
            string PhoneNumber PK,FK2
            string PhoneNumberTypeID
        }
        PhoneNumberType {
            string PhoneNumberTypeID PK
            string Name
        }
  
```

The diagram illustrates the database schema for a Person database. The tables and their attributes are as follows:

- Password**: BusinessEntityID (PK,FK1), PasswordHash, PasswordSalt
- Address**: AddressID (PK), AddressLine1, AddressLine2, City, StateProvinceID (FK1,U2), PostalCode, SpatialLocation, rowguid, ModifiedDate
- StateProvince**: StateProvinceID (PK), StateProvinceCode (U3), CountryRegionCode (FK1,U3), IsOnlyStateProvinceFlag, Name, TerritoryID, rowguid, ModifiedDate
- CountryRegion**: CountryRegionCode (PK), Name, ModifiedDate
- BusinessEntity**: BusinessEntityID (PK), rowguid, ModifiedDate
- BusinessEntityContact**: BusinessEntityID (PK,FK3), PersonID (PK,FK1), ContactTypeID (FK2), ModifiedDate
- ContactType**: ContactTypeID (PK), Name, ModifiedDate
- BusinessEntityAddress**: AddressID (PK,FK3), BusinessEntityID (PK,FK2), AddressTypeID (FK1), ModifiedDate
- EmailAddress**: BusinessEntityID (PK,FK1), EmailAddressID (PK), EmailAddress
- PersonPhone**: BusinessEntityID (PK,FK1), PhoneID (PK), PhoneNumber (PK,FK2), PhoneNumberTypeID
- PhoneNumberType**: PhoneNumberTypeID (PK), Name

Relationships are indicated by lines connecting the tables, with cardinalities shown at each end:

- Password** to **Person**: One-to-many (1 to U1)
- Address** to **Person**: One-to-many (1 to U1)
- StateProvince** to **Person**: One-to-many (1 to U1)
- CountryRegion** to **Person**: One-to-many (1 to U1)
- BusinessEntity** to **Person**: One-to-many (1 to U1)
- BusinessEntityContact** to **Person**: One-to-many (1 to U1)
- ContactType** to **Person**: One-to-many (1 to U1)
- BusinessEntityAddress** to **Person**: One-to-many (1 to U1)
- EmailAddress** to **Person**: One-to-many (1 to U1)
- PersonPhone** to **Person**: One-to-many (1 to U1)
- PhoneNumberType** to **PersonPhone**: One-to-many (1 to U1)

The diagram illustrates a CRM system database schema. It includes the following entities and their attributes:

- Password**:
  - PK,FK1: BusinessEntityID
  - PasswordHash
  - PasswordSalt
- BusinessEntity**:
  - PK: BusinessEntityID
  - rowguid
  - ModifiedDate
- Person**:
  - PK,FK1: BusinessEntityID
  - PersonType
  - NameStyle
  - Title
  - FirstName
  - MiddleName
  - LastName
  - Suffix
  - EmailPromotion
  - AdditionalContactInfo
  - Demographics
  - rowguid
  - ModifiedDate
- Address**:
  - PK: AddressID
  - U2: AddressLine1
  - U2: AddressLine2
  - U2: City
  - FK1,U2: StateProvinceID
  - U2: PostalCode
  - SpatialLocation
  - rowguid
  - ModifiedDate
- EmailAddress**:
  - PK,FK1: BusinessEntityID
  - PK: EmailAddressID
  - EmailAddress
- PersonPhone**:
  - PK,FK1: BusinessEntityID
  - PK: PhoneNumber
  - PK,FK2: PhoneNumberTypeID
- BusinessEntityContact**:
  - PK,FK3: BusinessEntityID
  - PK,FK1: PersonID
  - FK2: ContactTypeID
  - ModifiedDate
- ContactType**:
  - PK: ContactTypeID
  - U1: Name
  - U1: ModifiedDate
- BusinessEntityAddress**:
  - PK,FK3: BusinessEntityID
  - PK,FK2: AddressID
  - FK1: AddressTypeID
  - ModifiedDate
- StateProvince**:
  - PK: StateProvinceID
  - U3: StateProvinceCode
  - FK1,U3: CountryRegionCode
  - IsOnlyStateProvinceFlag
  - Name
  - TerritoryID
  - rowguid
  - ModifiedDate
- CountryRegion**:
  - PK: CountryRegionCode
  - U1: Name
  - U1: ModifiedDate
- PhoneNumberType**:
  - PK: PhoneNumberTypeID
  - Name
- AddressType**:
  - PK: AddressTypeID
  - U1: Name
  - U2: rowguid
  - U2: ModifiedDate

Relationships are indicated by lines connecting the entities to their respective foreign keys. For example, **BusinessEntity** is linked to **Person** via BusinessEntityID. **Person** is linked to **Address**, **EmailAddress**, and **PersonPhone**. **BusinessEntityContact** links **BusinessEntity**, **Person**, and **ContactType**. **BusinessEntityAddress** links **BusinessEntity**, **Address**, and **AddressType**. **StateProvince** links **Address** and **CountryRegion**.

# Purchasing

```
graph TD; POH[PurchaseOrderHeader] --> V[Vendor]; POH --> S[ShipMethod]; POH --> PV[Product/Vendor]; POD[PurchaseOrderDetail] --> V; POD --> S; POD --> PV;
```

The diagram illustrates the following tables and their attributes:

- PurchaseOrderDetail**:
  - PK2: PurchaseOrderID, PurchaseOrderDetailID
  - Attributes: DueDate, OrderQty, ProductID, UnitPrice, LineTotal, ReceivedQty, RejectedQty, StockedQty, ModifiedDate
- PurchaseOrderHeader**:
  - PK: PurchaseOrderID
  - FK1: ShipMethodID
  - FK4: VendorID
  - Attributes: RevisionNumber, Status, OrderDate, ShipDate, SubTotal, TaxAmt, Freight, TotalDue, ModifiedDate
- Vendor**:
  - PK, FK1: BusinessEntityID
  - U1: AccountNumber, Name, CreditRating, PreferredVendorStatus, ActiveFlag, PurchasingWebServiceURL, ModifiedDate
- ShipMethod**:
  - PK: ShipMethodID
  - U1: Name, ShipBase
  - U2: ShipRate, rowguid, ModifiedDate
- Product/Vendor**:
  - PK, FK3: BusinessEntityID
  - PK, FK1: ProductID
  - FK2: AverageLeadTime, StandardPrice, LastReceiptPrice, LastReceiptCost, LastReceiptDate, MinOrderQty, MaxOrderQty, OnOrderQty, UnitMeasureCode, ModifiedDate

Relationships are indicated by arrows connecting the foreign key fields to the primary key fields of the referenced tables.

# Purchasing

```

    erDiagram
        PURCHASEORDERDETAIL ||--o{ PURCHASEORDERHEADER : "FK2"
        PURCHASEORDERDETAIL ||--o{ SHIPMETHOD : "FK4"
        PURCHASEORDERDETAIL ||--o{ PRODUCTVENDOR : "FK2"
        PURCHASEORDERHEADER ||--o{ VENDOR : "FK1"
        PURCHASEORDERHEADER ||--o{ SHIPMETHOD : "FK4"
        PURCHASEORDERHEADER ||--o{ PRODUCTVENDOR : "FK3"
        PURCHASEORDERHEADER ||--o{ PRODUCTVENDOR : "FK1"

        PURCHASEORDERDETAIL {
            string PK2
            string PurchaseOrderID
            string PurchaseOrderDetailID
            string DueDate
            float OrderQty
            string ProductID
            float UnitPrice
            float LineTotal
            float ReceivedQty
            float RejectedQty
            float StockedQty
            string ModifiedDate
        }
        PURCHASEORDERHEADER {
            string PK
            string PurchaseOrderID
            string FK1
            string ShipMethodID
            string VendorID
            string RevisionNumber
            string Status
            string OrderDate
            string ShipDate
            float SubTotal
            float TaxAmt
            float Freight
            float TotalDue
            string ModifiedDate
        }
        VENDOR {
            string PK_FK1
            string BusinessEntityID
            string U1
            string AccountNumber
            string Name
            float CreditRating
            string PreferredVendorStatus
            string ActiveFlag
            string PurchasingWebServiceURL
            string ModifiedDate
        }
        SHIPMETHOD {
            string PK
            string ShipMethodID
            string U1
            string Name
            string ShipBase
            float ShipRate
            string rowguid
            string ModifiedDate
        }
        PRODUCTVENDOR {
            string PK_FK3
            string PK_FK1
            string BusinessEntityID
            string ProductID
            float AverageLeadTime
            float StandardPrice
            float LastReceiptCost
            string LastReceiptDate
            float MinOrderQty
            float MaxOrderQty
            float OnOrderQty
            string UnitMeasureCode
            string ModifiedDate
        }
  
```

The diagram illustrates the relationships between five tables in the Purchasing database:

- PurchaseOrderDetail** (PK2) is linked to **PurchaseOrderHeader** (FK2), **ShipMethod** (FK4), and **ProductVendor** (FK2).
- PurchaseOrderHeader** (PK) is linked to **Vendor** (FK1) and **ShipMethod** (FK4).
- ProductVendor** (PK\_FK3, PK\_FK1) is linked to **Vendor** (FK3, FK1).

**Table Attributes:**

- PurchaseOrderDetail:** DueDate, OrderQty, ProductID, UnitPrice, LineTotal, ReceivedQty, RejectedQty, StockedQty, ModifiedDate.
- PurchaseOrderHeader:** PurchaseOrderID, ShipMethodID, VendorID, RevisionNumber, Status, OrderDate, ShipDate, SubTotal, TaxAmt, Freight, TotalDue, ModifiedDate.
- Vendor:** BusinessEntityID, AccountNumber, Name, CreditRating, PreferredVendorStatus, ActiveFlag, PurchasingWebServiceURL, ModifiedDate.
- ShipMethod:** ShipMethodID, Name, ShipBase, ShipRate, rowguid, ModifiedDate.
- ProductVendor:** BusinessEntityID, ProductID, AverageLeadTime, StandardPrice, LastReceiptCost, LastReceiptDate, MinOrderQty, MaxOrderQty, OnOrderQty, UnitMeasureCode, ModifiedDate.

# Production

The diagram illustrates a production system database schema. The central entity is **Product**, which is linked to numerous other entities. **Product** has attributes: ProductID (PK), Name, ProductNumber, MakeFlag, FinishedGoodsFlag, Color, SafetyStockLevel, ReorderPoint, StandardCost, ListPrice, Size, SizeUnitMeasureCode, WeightUnitMeasureCode, Weight, DaysToManufacture, ProductLine, Class, Style, ProductSubcategoryID, ProductModelID, SellStartDate, SellEndDate, DiscontinuedDate, rowguid, and ModifiedDate. It is connected to **ProductReview** (FK1), **ProductListPriceHistory** (PK, FK1), **ProductPhoto** (PK), **ProductProductPhoto** (PK, FK1), **ProductModel** (PK, FK1), **ProductModelProductDescriptionCulture** (PK, FK3), **ProductCategory** (FK1), **ProductSubcategory** (FK1), **ProductDocument** (FK2), **ProductCostHistory** (FK1), **ProductInventory** (PK, FK2), **WorkOrderRouting** (FK1), **WorkOrder** (FK1), **ScrapReason** (FK2), **TransactionHistory** (FK1), **UnitMeasure** (FK1), **TransactionHistoryArchive** (FK1), **ProductModelIllustration** (PK, FK2), **Illustration** (PK), **ProductDescription** (FK1), and **Culture** (FK1). Other entities include **ProductReview** (PK: ProductReviewID, FK1: ProductID, ReviewerName, ReviewDate, EmailAddress, Rating, Comments, ModifiedDate), **ProductListPriceHistory** (PK: ProductID, FK1: ProductID, StartDate, EndDate, ListPrice, ModifiedDate), **ProductPhoto** (PK: ProductPhotoID, ThumbnailPhoto, ThumbnailPhotoFileName, LargePhoto, LargePhotoFileName, ModifiedDate), **ProductProductPhoto** (PK: ProductID, FK1: ProductID, ProductPhotoID, Primary, ModifiedDate), **ProductModel** (PK: ProductModelID, U1: Name, CatalogDescription, Instructions, rowguid, ModifiedDate), **ProductModelProductDescriptionCulture** (PK: ProductModelID, FK3: ProductModelID, ProductDescriptionID, CultureID, ModifiedDate), **ProductCategory** (PK: ProductCategoryID, U1: Name, rowguid, ModifiedDate), **ProductSubcategory** (PK: ProductSubcategoryID, FK1: ProductCategoryID, U1: Name, rowguid, ModifiedDate), **ProductDocument** (PK: ProductID, FK2: ProductID, DocumentNode, ModifiedDate), **ProductCostHistory** (PK: ProductID, FK1: ProductID, StartDate, EndDate, StandardCost, ModifiedDate), **ProductInventory** (PK: ProductID, FK2: ProductID, LocationID, Shelf, Bin, Quantity, rowguid, ModifiedDate), **WorkOrderRouting** (PK: WorkOrderID, FK2: WorkOrderID, ProductID, OperationSequence, FK1: LocationID, ScheduledStartDate, ScheduledEndDate, ActualStartDate, ActualEndDate, ActualResourceHrs, PlannedCost, ActualCost, ModifiedDate), **WorkOrder** (PK: WorkOrderID, FK1: ProductID, OrderQty, StockedQty, ScrappedQty, StartDate, EndDate, DueDate, ScrapReasonID, ModifiedDate), **ScrapReason** (PK: ScrapReasonID, U1: Name, ModifiedDate), **TransactionHistory** (PK: TransactionID, FK1: ProductID, ReferenceOrderID, TransactionDate, TransactionType, Quantity, ActualCost, ModifiedDate, ReferenceOrderLineID), **UnitMeasure** (PK: UnitMeasureCode, U1: Name, ModifiedDate), **TransactionHistoryArchive** (PK: TransactionID, FK1: ProductID, ReferenceOrderID, TransactionDate, TransactionType, Quantity, ActualCost, ModifiedDate, ReferenceOrderLineID), **ProductModelIllustration** (PK: ProductModelID, FK2: ProductModelID, IllustrationID, ModifiedDate), **Illustration** (PK: IllustrationID, Diagram, ModifiedDate), **ProductDescription** (PK: ProductDescriptionID, U1: Description, rowguid, ModifiedDate), and **Culture** (PK: CultureID, U1: Name, ModifiedDate).

The diagram illustrates a database schema for a product management system. The central table is **Product**, which serves as the core entity. It is linked to various other tables through primary and foreign key relationships.

**Product Table:**

- PK:** ProductID
- U1:** Name
- U2:** ProductNumber
- U3:** MakeFlag
- FK1:** ProductModelID
- FK2:** ProductSubcategoryID
- FK3:** ProductCategoryID
- FK4:** ProductSubcategoryID
- FK5:** ProductCategoryID
- FK6:** ProductSubcategoryID
- FK7:** ProductCategoryID
- FK8:** ProductSubcategoryID
- FK9:** ProductCategoryID
- FK10:** ProductSubcategoryID
- FK11:** ProductCategoryID
- FK12:** ProductSubcategoryID
- FK13:** ProductCategoryID
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