localhost,13001 Documentation

BIClass

Server	localhost,13001
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localhost,13001

Databases (1)

- BIClass

Server Properties

Property	Value
Product	Microsoft SQL Server
Version	15.0.4410.1
Language	English
Platform	NT x64
Edition	Developer Edition (64-bit)
Engine Edition	3 (Enterprise)
Processors	12
OS Version	6.2 (9200)
Physical Memory	25633
Is Clustered	False
Root Directory	C:\
Collation	SQL_Latin1_General_CP1_CI_AS

Server Settings

Property	Value
Default data file path	/var/opt/mssql/data/
Default backup file path	/var/opt/mssql/backup/
Default log file path	/var/opt/mssql/log/
Recovery Interval (minutes)	0
Default index fill factor	0
Default backup media retention	0
Compress Backup	False

Advanced Server Settings

Property	Value
Locks	0
Nested triggers enabled	True
Allow triggers to fire others	True
Default language	English

Network packet size	4096
Default fulltext language LCID	1033
Two-digit year cutoff	2049
Remote login timeout	10
Cursor threshold	-1
Max text replication size	65536
Parallelism cost threshold	5
Max degree of parallelism	0
Min server memory	16
Max server memory	2147483647
Scan for startup procs	False
Transform noise words	False
CLR enabled	False
Blocked process threshold	0
Filestream access level	False
Optimize for ad hoc workloads	False
CLR strict security	True

User databases

Databases (1)

- BIClass

BIClass Database

Database Properties

Property	Value
SQL Server Version	SqlServer2019
Compatibility Level	SQL Server 2014
Last backup time	10/29/2020
Last log backup time	-
Creation date	Nov 19 2024
Users	7
Database Encryption Enabled	False
Database Encryption Algorithm	None
Database size	166.75 MB
Unallocated space	7.52 MB

Database Options

Property	Value
Compatibility Level	120
Database collation	SQL_Latin1_General_CP1_CI_AS
Restrict access	MULTI_USER
Is read-only	False
Auto close	False
Auto shrink	False
Database status	ONLINE
In standby	False
Cleanly shutdown	False
Supplemental logging enabled	False
Snapshot isolation state	OFF
Read committed snapshot on	False
Recovery model	FULL
Page verify option	CHECKSUM
Auto create statistics	True
Auto update statistics	True
Auto update statistics asynchronously	False
ANSI NULL default	False
ANSI NULL enabled	False
ANSI padding enabled	False

ANSI warnings enabled	False
Arithmetic abort enabled	False
Concatenating NULL yields NULL	False
Numeric roundabort enabled	False
Quoted Identifier On	False
Recursive triggers enabled	False
Close cursors on commit	False
Local cursors by default	False
Fulltext enabled	True
Trustworthy	False
Database chaining	False
Forced parameterization	False
Master key encrypted by server	False
Published	False
Subscribed	False
Merge published	False
Is distribution database	False
Sync with backup	False
Service broker GUID	7fa48b72-5c75-4b38-aa33-b2acedfd5507
Service broker enabled	False
Date correlation	False
CDC enabled	False
Encrypted	False
Honor broker priority	False
Default language	English
Default fulltext language LCID	1033
Nested triggers enabled	True
Transform noise words	False
Two-digit year cutoff	2049
Containment	NONE
Target recovery time	0
Database owner	sa

Files

Name	Type	Size	Maxsize	Autogrowth	File Name
BIClass	Data	67.00 MB	unlimited	1.00 MB	/var/opt/mssql/data/BIClass.mdf
BIClass_log	Log	99.75 MB	2048.00 GB	10.00 percent	/var/opt/mssql/log/BIClass_log.ldf

Tables

Objects

Name
CH01-01-Dimension.DimCustomer
CH01-01-Dimension.DimGender
CH01-01-Dimension.DimMaritalStatus
CH01-01-Dimension.DimOccupation
CH01-01-Dimension.DimOrderDate
CH01-01-Dimension.DimProduct
CH01-01-Dimension.DimProductCategory
CH01-01-Dimension.DimProductSubcategory
CH01-01-Dimension.DimTerritory
CH01-01-Dimension.SalesManagers
CH01-01-Fact.Data
DbSecurity.UserAuthorization
FileUpload.OriginallyLoadedData
FileUpload.ProductCategories
FileUpload.ProductSubcategories
Process.WorkflowSteps

[CH01-01-Dimension].[DimCustomer]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	18400
Created	8:59:24 PM Wednesday, December 2, 2015
Last Modified	6:05:12 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
	CustomerName	varchar(30)	30	NULL allowed	
	UserAuthorizationKey	int	4	NOT NULL	
PK	CustomerKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[DimCustomer-SequenceObject])

Indexes

Key	Name	Key Columns	Unique
PK	PK_CustomerKey	CustomerKey	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimCustomer]
(
[CustomerName] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[UserAuthorizationKey] [int] NOT NULL,
[CustomerKey] [int] NOT NULL CONSTRAINT [DF_DimCustomer_Key] DEFAULT (NEXT VALUE FOR [PKSequence].[DimCustomerSequenceObject])
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimCustomer] ADD CONSTRAINT [PK_CustomerKey] PRIMARY KEY CLUSTERED ([CustomerKey]) ON [PRIMARY]
GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]

[Project2].[Load_Data]

[Project2].[Load_DimCustomer]

[Project2].[ShowTableStatusRowCount]

[CH01-01-Dimension].[DimGender]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	2
Created	7:45:56 AM Wednesday, December 2, 2015
Last Modified	6:05:13 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK	Gender	char(1)	1	NOT NULL
	GenderDescription	varchar(6)	6	NOT NULL
	UserAuthorizationKey	int	4	NOT NULL

Indexes

Key	Name	Key Columns	Unique
PK	PK_DimGender	Gender	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimGender]
(
[Gender] [char] (1) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[GenderDescription] [varchar] (6) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[UserAuthorizationKey] [int] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimGender] ADD CONSTRAINT [PK_DimGender] PRIMARY KEY CLUSTERED
([Gender]) ON [PRIMARY]
GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]

[Project2].[Load_DimGender]

[Project2].[ShowTableStatusRowCount]

[CH01-01-Dimension].[DimMaritalStatus]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	2
Created	7:46:07 AM Wednesday, December 2, 2015
Last Modified	6:05:13 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK	MaritalStatus	char(1)	1	NOT NULL
	MaritalStatusDescription	varchar(7)	7	NOT NULL
	UserAuthorizationKey	int	4	NOT NULL

Indexes

Key	Name	Key Columns	Unique
PK	PK_DimMaritalStatus	MaritalStatus	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimMaritalStatus]
(
[MaritalStatus] [char] (1) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[MaritalStatusDescription] [varchar] (7) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[UserAuthorizationKey] [int] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimMaritalStatus] ADD CONSTRAINT [PK_DimMaritalStatus] PRIMARY
KEY CLUSTERED ([MaritalStatus]) ON [PRIMARY]
GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]

[Project2].[Load_DimMaritalStatus]

[Project2].[ShowTableStatusRowCount]

[CH01-01-Dimension].[DimOccupation]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	5
Created	7:57:30 AM Wednesday, December 2, 2015
Last Modified	6:05:13 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
	Occupation	varchar(20)	20	NULL allowed	
	UserAuthorizationKey	int	4	NOT NULL	
PK C	OccupationKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[DimOccupation-SequenceObject])

Indexes

Key	Name	Key Columns	Unique
PK C	PK_OccupationKey	OccupationKey	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimOccupation]
(
[Occupation] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[UserAuthorizationKey] [int] NOT NULL,
[OccupationKey] [int] NOT NULL CONSTRAINT [DF_DimOccupation_Key] DEFAULT (NEXT VALUE FOR [PKSequence].[DimOccupationSequenceObject])
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimOccupation] ADD CONSTRAINT [PK_OccupationKey] PRIMARY KEY CLUSTERED ([OccupationKey]) ON [PRIMARY]
GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]

[Project2].[Load_Data]

[Project2].[Load_DimOccupation]

[Project2].[ShowTableStatusRowCount]

[CH01-01-Dimension].[DimOrderDate]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	1124
Created	11:26:20 AM Wednesday, December 2, 2015
Last Modified	6:05:13 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK	OrderDate	date	3	NOT NULL
	MonthName	varchar(10)	10	NULL allowed
	MonthNumber	int	4	NULL allowed
	Year	int	4	NULL allowed
	UserAuthorizationKey	int	4	NOT NULL

Indexes

Key	Name	Key Columns	Unique
PK	PK_DimOrderDate_1	OrderDate	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimOrderDate]
(
[OrderDate] [date] NOT NULL,
[MonthName] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[MonthNumber] [int] NULL,
[Year] [int] NULL,
[UserAuthorizationKey] [int] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimOrderDate] ADD CONSTRAINT [PK_DimOrderDate_1] PRIMARY KEY
CLUSTERED ([OrderDate]) ON [PRIMARY]
GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]
[Project2].[Load_DimOrderDate]
[Project2].[ShowTableStatusRowCount]

[CH01-01-Dimension].[DimProduct]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	130
Created	8:46:24 PM Sunday, December 10, 2017
Last Modified	6:05:13 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
FK	ProductSubcategoryKey	int	4	NULL allowed	
	ProductCategory	varchar(20)	20	NULL allowed	
	ProductSubcategory	varchar(20)	20	NULL allowed	
	ProductCode	varchar(10)	10	NULL allowed	
	ProductName	varchar(40)	40	NULL allowed	
	Color	varchar(10)	10	NULL allowed	
	ModelName	varchar(30)	30	NULL allowed	
	UserAuthorizationKey	int	4	NOT NULL	
PK	ProductKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[DimProduct-SequenceObject])

Indexes

Key	Name	Key Columns	Unique
PK	PK_ProductKey	ProductKey	True

Foreign Keys

Name	Columns
FK_DimProductSubcategory	ProductSubcategoryKey->[CH01-01-Dimension].[DimProductSubcategory].[Product-SubcategoryKey]

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimProduct]
(
```

```
[ProductSubcategoryKey] [int] NULL,
[ProductCategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductSubcategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductCode] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductName] [varchar] (40) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Color] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ModelName] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[UserAuthorizationKey] [int] NOT NULL,
[ProductKey] [int] NOT NULL CONSTRAINT [DF_DimProduct_Key] DEFAULT (NEXT VALUE FOR
[PKSequence].[DimProductSequenceObject])
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProduct] ADD CONSTRAINT [PK_ProductKey] PRIMARY KEY CLUSTERED
([ProductKey]) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProduct] ADD CONSTRAINT [FK_DimProductSubcategory] FOREIGN
KEY ([ProductSubcategoryKey]) REFERENCES [CH01-01-Dimension].[DimProductSubcategory] ([Product-
SubcategoryKey])
GO
```

Uses

[CH01-01-Dimension].[DimProductSubcategory]
CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]
[Project2].[Load_Data]
[Project2].[Load_DimProduct]
[Project2].[ShowTableStatusRowCount]

[CH01-01-Dimension].[DimProductCategory]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	3
Created	6:05:07 AM Tuesday, November 19, 2024
Last Modified	6:05:13 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	ProductCategoryKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[DimProduct-CategorySequenceObject])
	ProductCategory	varchar(20)	20	NULL allowed	
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())
	DateofLastUpdate	datetime2	8	NULL allowed	(sysdatetime())
	UserAuthorizationKey	int	4	NOT NULL	

Indexes

Key	Name	Key Columns	Unique
PK C	PK_DimProductCategory	ProductCategoryKey	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimProductCategory]
(
[ProductCategoryKey] [int] NOT NULL CONSTRAINT [DF_DimProductCategory_Key] DEFAULT (NEXT VALUE FOR [PKSequence].[DimProductCategorySequenceObject]),
[ProductCategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[DateAdded] [datetime2] NULL CONSTRAINT [DF_DimProductCategory_DateAdded] DEFAULT (sysdatetime()),
[DateofLastUpdate] [datetime2] NULL CONSTRAINT [DF_DimProductCategory_DateofLastUpdate] DEFAULT (sysdatetime()),
[UserAuthorizationKey] [int] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProductCategory] ADD CONSTRAINT [PK_DimProductCategory] PRIMARY KEY CLUSTERED ([ProductCategoryKey]) ON [PRIMARY]
GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Dimension].[DimProductSubcategory]
[Project2].[Load_DimProduct]
[Project2].[Load_DimProductCategory]
[Project2].[Load_DimProductSubcategory]
[Project2].[ShowTableStatusRowCount]

[CH01-01-Dimension].[DimProductSubcategory]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	17
Created	6:05:07 AM Tuesday, November 19, 2024
Last Modified	6:05:13 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	ProductSubcategoryKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[DimProduct-SubcategorySequenceObject])
FK	ProductCategoryKey	int	4	NOT NULL	
	ProductSubcategory	varchar(20)	20	NULL allowed	
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())
	DateofLastUpdate	datetime2	8	NULL allowed	(sysdatetime())
	UserAuthorizationKey	int	4	NOT NULL	

Indexes

Key	Name	Key Columns	Unique
PK C	PK_DimProductSubcategory	ProductSubcategoryKey	True

Foreign Keys

Name	Columns
FK_DimProductCategory	ProductCategoryKey->[CH01-01-Dimension].[DimProductCategory].[ProductCategoryKey]

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimProductSubcategory]
(
[ProductSubcategoryKey] [int] NOT NULL CONSTRAINT [DF_DimProductSubcategory_Key] DEFAULT (NEXT VALUE FOR [PKSequence].[DimProductSubcategorySequenceObject]),
[ProductCategoryKey] [int] NOT NULL,
[ProductSubcategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[DateAdded] [datetime2] NULL CONSTRAINT [DFT_DimProductSubcategory_DateAdded] DEFAULT
```

```
(sysdatetime()),
[DateofLastUpdate] [datetime2] NULL CONSTRAINT [DFT_DimProductSubcategory_DateofLastUpdate]
DEFAULT (sysdatetime()),
[UserAuthorizationKey] [int] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] ADD CONSTRAINT [PK_DimProductSubcategory]
PRIMARY KEY CLUSTERED ([ProductSubcategoryKey]) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] ADD CONSTRAINT [FK_DimProductCategory]
FOREIGN KEY ([ProductCategoryKey]) REFERENCES [CH01-01-Dimension].[DimProductCategory] ([Product-
CategoryKey])
GO
```

Uses

[CH01-01-Dimension].[DimProductCategory]
CH01-01-Dimension

Used By

[CH01-01-Dimension].[DimProduct]
[Project2].[Load_DimProduct]
[Project2].[Load_DimProductSubcategory]
[Project2].[ShowTableStatusRowCount]

[CH01-01-Dimension].[DimTerritory]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	10
Created	5:48:09 PM Wednesday, December 2, 2015
Last Modified	6:05:13 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
	TerritoryGroup	varchar(20)	20	NULL allowed	
	TerritoryCountry	varchar(20)	20	NULL allowed	
	TerritoryRegion	varchar(20)	20	NULL allowed	
	UserAuthorizationKey	int	4	NOT NULL	
PK C	TerritoryKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[DimTerritory-SequenceObject])

Indexes

Key	Name	Key Columns	Unique
PK C	PK_TerritoryKey	TerritoryKey	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimTerritory]
(
[TerritoryGroup] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[TerritoryCountry] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[TerritoryRegion] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[UserAuthorizationKey] [int] NOT NULL,
[TerritoryKey] [int] NOT NULL CONSTRAINT [DF_DimTerritory_Key] DEFAULT (NEXT VALUE FOR
[PKSequence].[DimTerritorySequenceObject])
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimTerritory] ADD CONSTRAINT [PK_TerritoryKey] PRIMARY KEY
CLUSTERED ([TerritoryKey]) ON [PRIMARY]
GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]
[Project2].[Load_Data]
[Project2].[Load_DimTerritory]
[Project2].[ShowTableStatusRowCount]

[CH01-01-Dimension].[SalesManagers]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	9
Created	7:36:09 AM Wednesday, December 2, 2015
Last Modified	6:05:13 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
	Category	varchar(20)	20	NULL allowed	
	SalesManager	varchar(50)	50	NULL allowed	
	Office	varchar(50)	50	NULL allowed	
	UserAuthorizationKey	int	4	NOT NULL	
PK C	SalesManagerKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[SalesManagers-SequenceObject])

Indexes

Key	Name	Key Columns	Unique
PK C	PK_SalesManagerKey	SalesManagerKey	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[SalesManagers]
(
[Category] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[SalesManager] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Office] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[UserAuthorizationKey] [int] NOT NULL,
[SalesManagerKey] [int] NOT NULL CONSTRAINT [DF_SalesManager_Key] DEFAULT (NEXT VALUE FOR [PKSequence].[SalesManagersSequenceObject])
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[SalesManagers] ADD CONSTRAINT [PK_SalesManagerKey] PRIMARY KEY CLUSTERED ([SalesManagerKey]) ON [PRIMARY]
GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]
[Project2].[Load_Data]
[Project2].[Load_SalesManagers]
[Project2].[ShowTableStatusRowCount]

[CH01-01-Fact].[Data]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	156085
Created	8:59:58 PM Wednesday, December 2, 2015
Last Modified	6:05:13 AM Tuesday, November 19, 2024

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
FK	SalesManagerKey	int	4	NULL allowed	
FK	OccupationKey	int	4	NULL allowed	
FK	TerritoryKey	int	4	NULL allowed	
FK	ProductKey	int	4	NULL allowed	
FK	CustomerKey	int	4	NULL allowed	
	ProductCategory	varchar(20)	20	NULL allowed	
	SalesManager	varchar(20)	20	NULL allowed	
	ProductSubcategory	varchar(20)	20	NULL allowed	
	ProductCode	varchar(10)	10	NULL allowed	
	ProductName	varchar(40)	40	NULL allowed	
	Color	varchar(10)	10	NULL allowed	
	ModelName	varchar(30)	30	NULL allowed	
	OrderQuantity	int	4	NULL allowed	
	UnitPrice	money	8	NULL allowed	
	ProductStandardCost	money	8	NULL allowed	
	SalesAmount	money	8	NULL allowed	
FK	OrderDate	date	3	NULL allowed	
	MonthName	varchar(10)	10	NULL allowed	
	MonthNumber	int	4	NULL allowed	
	Year	int	4	NULL allowed	
	CustomerName	varchar(30)	30	NULL allowed	
FK	MaritalStatus	char(1)	1	NULL allowed	
FK	Gender	char(1)	1	NULL allowed	
	Education	varchar(20)	20	NULL allowed	

	Occupation	varchar(20)	20	NULL allowed	
	TerritoryRegion	varchar(20)	20	NULL allowed	
	TerritoryCountry	varchar(20)	20	NULL allowed	
	TerritoryGroup	varchar(20)	20	NULL allowed	
	UserAuthorizationKey	int	4	NOT NULL	
PK C	SalesKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[DataSequence-Object])

Indexes

Key	Name	Key Columns	Unique
PK C	PK_SalesKey	SalesKey	True

Foreign Keys

Name	Columns
FK_DimCustomer	CustomerKey->[CH01-01-Dimension].[DimCustomer].[CustomerKey]
FK_DimGender	Gender->[CH01-01-Dimension].[DimGender].[Gender]
FK_DimMaritalStatus	MaritalStatus->[CH01-01-Dimension].[DimMaritalStatus].[MaritalStatus]
FK_DimOccupation	OccupationKey->[CH01-01-Dimension].[DimOccupation].[OccupationKey]
FK_DimOrderDate	OrderDate->[CH01-01-Dimension].[DimOrderDate].[OrderDate]
FK_DimProduct	ProductKey->[CH01-01-Dimension].[DimProduct].[ProductKey]
FK_DimTerritory	TerritoryKey->[CH01-01-Dimension].[DimTerritory].[TerritoryKey]
FK_SalesManagers	SalesManagerKey->[CH01-01-Dimension].[SalesManagers].[SalesManagerKey]

SQL Script

```
CREATE TABLE [CH01-01-Fact].[Data]
(
[SalesManagerKey] [int] NULL,
[OccupationKey] [int] NULL,
[TerritoryKey] [int] NULL,
[ProductKey] [int] NULL,
[CustomerKey] [int] NULL,
[ProductCategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[SalesManager] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductSubcategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductCode] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductName] [varchar] (40) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Color] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ModelName] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[OrderQuantity] [int] NULL,
[UnitPrice] [money] NULL,
[ProductStandardCost] [money] NULL,
```

```
[SalesAmount] [money] NULL,
[OrderDate] [date] NULL,
[MonthName] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[MonthNumber] [int] NULL,
[Year] [int] NULL,
[CustomerName] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[MaritalStatus] [char] (1) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Gender] [char] (1) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Education] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Occupation] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[TerritoryRegion] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[TerritoryCountry] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[TerritoryGroup] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[UserAuthorizationKey] [int] NOT NULL,
[SalesKey] [int] NOT NULL CONSTRAINT [DF_Sales_Key] DEFAULT (NEXT VALUE FOR [PKSequence].[Data-
SequenceObject])
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [PK_SalesKey] PRIMARY KEY CLUSTERED ([SalesKey])
ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_DimCustomer] FOREIGN KEY ([CustomerKey])
REFERENCES [CH01-01-Dimension].[DimCustomer] ([CustomerKey])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_DimGender] FOREIGN KEY ([Gender]) REFERENCES
[CH01-01-Dimension].[DimGender] ([Gender])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_DimMaritalStatus] FOREIGN KEY ([Marital-
Status]) REFERENCES [CH01-01-Dimension].[DimMaritalStatus] ([MaritalStatus])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_DimOccupation] FOREIGN KEY ([OccupationKey])
REFERENCES [CH01-01-Dimension].[DimOccupation] ([OccupationKey])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_DimOrderDate] FOREIGN KEY ([OrderDate])
REFERENCES [CH01-01-Dimension].[DimOrderDate] ([OrderDate])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_DimProduct] FOREIGN KEY ([ProductKey])
REFERENCES [CH01-01-Dimension].[DimProduct] ([ProductKey])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_DimTerritory] FOREIGN KEY ([TerritoryKey])
REFERENCES [CH01-01-Dimension].[DimTerritory] ([TerritoryKey])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_SalesManagers] FOREIGN KEY ([SalesManager-
Key]) REFERENCES [CH01-01-Dimension].[SalesManagers] ([SalesManagerKey])
GO
```

Uses

[CH01-01-Dimension].[DimCustomer]
[CH01-01-Dimension].[DimGender]
[CH01-01-Dimension].[DimMaritalStatus]
[CH01-01-Dimension].[DimOccupation]
[CH01-01-Dimension].[DimOrderDate]
[CH01-01-Dimension].[DimProduct]

[CH01-01-Dimension].[DimTerritory]
[CH01-01-Dimension].[SalesManagers]
CH01-01-Fact

Used By

[Project2].[Load_Data]
[Project2].[ShowTableStatusRowCount]

[DbSecurity].[UserAuthorization]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Heap	True
Row Count (~)	6
Created	6:05:07 AM Tuesday, November 19, 2024
Last Modified	6:05:07 AM Tuesday, November 19, 2024

Columns

Name	Data Type	Max Length (Bytes)	Nullability	Default
UserAuthorizationKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[UserAuthorization-SequenceObject])
ClassTime	nvarchar(5)	10	NULL allowed	('10:45')
Individual Project	nvarchar(60)	120	NULL allowed	('PROJECT 2 RECREATE THE BICLASS DATABASE STAR SCHEMA')
GroupMemberLastName	nvarchar(35)	70	NOT NULL	
GroupMemberFirstName	nvarchar(25)	50	NOT NULL	
GroupName	nvarchar(20)	40	NOT NULL	('Group 1')
DateAdded	datetime2	8	NULL allowed	(sysdatetime())

SQL Script

```
CREATE TABLE [DbSecurity].[UserAuthorization]
(
[UserAuthorizationKey] [int] NOT NULL CONSTRAINT [DF_UserAuthorization_Key] DEFAULT (NEXT VALUE
FOR [PKSequence].[UserAuthorizationSequenceObject]),
[ClassTime] [nvarchar] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NULL CONSTRAINT [DF__UserAutho__-
Class__5C6CB6D7] DEFAULT ('10:45'),
[Individual Project] [nvarchar] (60) COLLATE SQL_Latin1_General_CP1_CI_AS NULL CONSTRAINT [DF__-
UserAutho__Indiv__5D60DB10] DEFAULT ('PROJECT 2 RECREATE THE BICLASS DATABASE STAR SCHEMA'),
[GroupMemberLastName] [nvarchar] (35) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[GroupMemberFirstName] [nvarchar] (25) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[GroupName] [nvarchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL CONSTRAINT [DF__User-
Autho__Group__5E54FF49] DEFAULT ('Group 1'),
[DateAdded] [datetime2] NULL CONSTRAINT [DF__UserAutho__DateA__5F492382] DEFAULT (sysdatetime())
) ON [PRIMARY]
GO
```

Uses

DbSecurity

Used By

[Project2].[sp_AddGroupMembers]

[FileUpload].[OriginallyLoadedData]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Heap	True
Row Count (~)	60398
Created	6:28:07 AM Thursday, October 29, 2020
Last Modified	6:28:08 AM Thursday, October 29, 2020

Columns

Name	Data Type	Max Length (Bytes)	Nullability
SalesKey	int	4	NOT NULL
ProductCategory	varchar(20)	20	NULL allowed
ProductSubcategory	varchar(20)	20	NULL allowed
SalesManager	varchar(20)	20	NULL allowed
ProductCode	varchar(10)	10	NULL allowed
ProductName	varchar(40)	40	NULL allowed
Color	varchar(10)	10	NULL allowed
ModelName	varchar(30)	30	NULL allowed
OrderQuantity	int	4	NULL allowed
UnitPrice	money	8	NULL allowed
ProductStandardCost	money	8	NULL allowed
SalesAmount	money	8	NULL allowed
OrderDate	date	3	NULL allowed
MonthName	varchar(10)	10	NULL allowed
MonthNumber	int	4	NULL allowed
Year	int	4	NULL allowed
CustomerName	varchar(30)	30	NULL allowed
MaritalStatus	char(1)	1	NULL allowed
Gender	char(1)	1	NULL allowed
Education	varchar(20)	20	NULL allowed
Occupation	varchar(20)	20	NULL allowed
TerritoryRegion	varchar(20)	20	NULL allowed
TerritoryCountry	varchar(20)	20	NULL allowed
TerritoryGroup	varchar(20)	20	NULL allowed

SQL Script

```
CREATE TABLE [FileUpload].[OriginallyLoadedData]
(
[SalesKey] [int] NOT NULL,
[ProductCategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductSubcategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[SalesManager] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductCode] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductName] [varchar] (40) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Color] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ModelName] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[OrderQuantity] [int] NULL,
[UnitPrice] [money] NULL,
[ProductStandardCost] [money] NULL,
[SalesAmount] [money] NULL,
[OrderDate] [date] NULL,
[MonthName] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[MonthNumber] [int] NULL,
[Year] [int] NULL,
[CustomerName] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[MaritalStatus] [char] (1) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Gender] [char] (1) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Education] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Occupation] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[TerritoryRegion] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[TerritoryCountry] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[TerritoryGroup] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO
```

Uses

FileUpload

Used By

[Project2].[Load_Data]
[Project2].[Load_DimCustomer]
[Project2].[Load_DimGender]
[Project2].[Load_DimMaritalStatus]
[Project2].[Load_DimOccupation]
[Project2].[Load_DimOrderDate]
[Project2].[Load_DimProduct]
[Project2].[Load_DimProductCategory]
[Project2].[Load_DimProductSubcategory]
[Project2].[Load_DimTerritory]
[Project2].[Load_SalesManagers]

[FileUpload].[ProductCategories]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Heap	True
Row Count (~)	3
Created	6:24:19 AM Thursday, October 29, 2020
Last Modified	6:24:19 AM Thursday, October 29, 2020

Columns

Name	Data Type	Max Length (Bytes)	Nullability
ProductCategory	varchar(20)	20	NOT NULL

SQL Script

```
CREATE TABLE [FileUpload].[ProductCategories]
(
[ProductCategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO
```

Uses

FileUpload

[FileUpload].[ProductSubcategories]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Heap	True
Row Count (~)	17
Created	6:24:19 AM Thursday, October 29, 2020
Last Modified	6:24:19 AM Thursday, October 29, 2020

Columns

Name	Data Type	Max Length (Bytes)	Nullability
ProductSubcategory	varchar(20)	20	NOT NULL

SQL Script

```
CREATE TABLE [FileUpload].[ProductSubcategories]
(
[ProductSubcategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO
```

Uses

FileUpload

[Process].[WorkflowSteps]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Heap	True
Row Count (~)	21
Created	6:05:07 AM Tuesday, November 19, 2024
Last Modified	6:05:07 AM Tuesday, November 19, 2024

Columns

Name	Data Type	Max Length (Bytes)	Nullability	Default
WorkFlowStepKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[Workflow-StepsSequenceObject])
WorkFlowStepDescription	nvarchar(100)	200	NOT NULL	
WorkFlowStepTableRowCount	int	4	NULL allowed	((0))
StartingDateTime	datetime2	8	NULL allowed	(sysdatetime())
EndingDateTime	datetime2	8	NULL allowed	(sysdatetime())
ClassTime	varchar(5)	5	NULL allowed	('10:45')
UserAuthorizationKey	int	4	NOT NULL	

SQL Script

```
CREATE TABLE [Process].[WorkflowSteps]
(
[WorkFlowStepKey] [int] NOT NULL CONSTRAINT [DF_WorkflowSteps_Key] DEFAULT (NEXT VALUE FOR
[PKSequence].[WorkflowStepsSequenceObject]),
[WorkFlowStepDescription] [nvarchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[WorkFlowStepTableRowCount] [int] NULL CONSTRAINT [DF__WorkflowS__WorkF__56B3DD81] DEFAULT ((0)),
[StartingDateTime] [datetime2] NULL CONSTRAINT [DF__WorkflowS__Start__57A801BA] DEFAULT
(sysdatetime()),
[EndingDateTime] [datetime2] NULL CONSTRAINT [DF__WorkflowS__Endin__589C25F3] DEFAULT
(sysdatetime()),
[ClassTime] [varchar] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NULL CONSTRAINT [DF__WorkflowS__-
Class__59904A2C] DEFAULT ('10:45'),
[UserAuthorizationKey] [int] NOT NULL
) ON [PRIMARY]
GO
```

Uses

Process

Used By

[Process].[usp_TrackWorkFlow]

Views

Objects

Name
Utils.ShowServerUserNameAndCurrentDatabase
Utils.uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint
Utils.uvw_FindTablesStorageBytes

[Utils].[ShowServerUserNameAndCurrentDatabase]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls On	True
Quoted Identifier On	True
Created	7:54:27 AM Tuesday, January 10, 2017
Last Modified	7:54:27 AM Tuesday, January 10, 2017

Columns

Name	Data Type	Max Length (Bytes)
ServerName	nvarchar(128)	256
YourUserName	nvarchar(128)	256
CurrentDatabase	nvarchar(128)	256

SQL Script

```
create view [Utils].[ShowServerUserNameAndCurrentDatabase]
as
       select  ServerName= @@SERVERNAME
       ,       YourUserName =  system_user
       ,       CurrentDatabase =  db_name();

GO
```

Uses

Utils

[Utils].[uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls On	True
Quoted Identifier On	True
Created	4:38:20 PM Wednesday, December 2, 2015
Last Modified	4:39:32 PM Wednesday, December 2, 2015

Columns

Name	Data Type	Max Length (Bytes)
FullyQualifiedTableName	nvarchar(257)	514
SchemaName	[sys].[sysname]	256
TableName	[sys].[sysname]	256
ColumnName	[sys].[sysname]	256
OrdinalPosition	int	4
FullyQualifiedDomainName	nvarchar(257)	514
DomainName	[sys].[sysname]	256
DataType	nvarchar(128)	256
IsNullable	varchar(3)	3
DefaultName	[sys].[sysname]	256
DefaultNameDefinition	nvarchar(4000)	8000
CheckConstraintRuleName	[sys].[sysname]	256
CheckConstraintRuleNameDefinition	nvarchar(4000)	8000

SQL Script

```
--create schema Utils;

CREATE VIEW [Utils].[uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint] AS
SELECT  CONCAT(tbl.TABLE_SCHEMA, '.', tbl.TABLE_NAME) AS FullyQualifiedTableName ,
        tbl.TABLE_SCHEMA AS SchemaName ,
        tbl.TABLE_NAME AS TableName ,
        col.COLUMN_NAME AS ColumnName ,
        col.ORDINAL_POSITION AS OrdinalPosition,
        CONCAT(col.DOMAIN_SCHEMA, '.', col.DOMAIN_NAME) AS FullyQualifiedDomainName ,
        col.DOMAIN_NAME AS DomainName ,
        CASE
```

```
                    WHEN col.DATA_TYPE = 'char'
            THEN CONCAT('char(', CHARACTER_MAXIMUM_LENGTH, ')')
                    WHEN col.DATA_TYPE = 'nchar'
            THEN CONCAT('nchar(', CHARACTER_MAXIMUM_LENGTH, ')')
                    WHEN col.DATA_TYPE = 'Nvarchar'
            THEN CONCAT('nvarchar(', CHARACTER_MAXIMUM_LENGTH, ')')
                    WHEN col.DATA_TYPE = 'varchar'
            THEN CONCAT('varchar(', CHARACTER_MAXIMUM_LENGTH, ')')
            WHEN col.DATA_TYPE = 'numeric'
            THEN CONCAT('numeric(', NUMERIC_PRECISION, ', ',
                        NUMERIC_SCALE, ')')
            WHEN col.DATA_TYPE = 'decimal'
            THEN CONCAT('decimal(', NUMERIC_PRECISION, ', ',
                        NUMERIC_SCALE, ')')
            ELSE col.DATA_TYPE
        END AS DataType ,
        col.IS_NULLABLE AS IsNullable,
        dcn.DefaultName ,
        col.COLUMN_DEFAULT AS DefaultNameDefinition ,
        cc.CONSTRAINT_NAME AS CheckConstraintRuleName,
        cc.CHECK_CLAUSE  AS CheckConstraintRuleNameDefinition
FROM    ( SELECT    TABLE_CATALOG ,
                    TABLE_SCHEMA ,
                    TABLE_NAME ,
                    TABLE_TYPE
          FROM      INFORMATION_SCHEMA.TABLES
        ) AS tbl
        INNER JOIN ( SELECT TABLE_CATALOG ,
                            TABLE_SCHEMA ,
                            TABLE_NAME ,
                            COLUMN_NAME ,
                            ORDINAL_POSITION ,
                            COLUMN_DEFAULT ,
                            IS_NULLABLE ,
                            DATA_TYPE ,
                            CHARACTER_MAXIMUM_LENGTH ,
                            CHARACTER_OCTET_LENGTH ,
                            NUMERIC_PRECISION ,
                            NUMERIC_PRECISION_RADIX ,
                            NUMERIC_SCALE ,
                            DATETIME_PRECISION ,
                            CHARACTER_SET_CATALOG ,
                            CHARACTER_SET_SCHEMA ,
                            CHARACTER_SET_NAME ,
                            COLLATION_CATALOG ,
                            COLLATION_SCHEMA ,
                            COLLATION_NAME ,
                            DOMAIN_CATALOG ,
                            DOMAIN_SCHEMA ,
                            DOMAIN_NAME
                     FROM   INFORMATION_SCHEMA.COLUMNS
                   ) AS col ON col.TABLE_CATALOG = tbl.TABLE_CATALOG
                               AND col.TABLE_SCHEMA = tbl.TABLE_SCHEMA
```

```
                                AND col.TABLE_NAME = tbl.TABLE_NAME
        LEFT OUTER JOIN ( SELECT    t.name AS TableName ,
                                    SCHEMA_NAME(s.schema_id) AS SchemaName ,
                                    ac.name AS ColumnName ,
                                    d.name AS DefaultName
                          FROM      sys.all_columns AS ac
                                    INNER JOIN sys.tables AS t ON ac.object_id = t.object_id
                                    INNER JOIN sys.schemas AS s ON t.schema_id = s.schema_id
                                    INNER JOIN sys.default_constraints AS d ON
ac.default_object_id = d.object_id
                        ) AS dcn ON dcn.SchemaName = tbl.TABLE_SCHEMA
                                    AND dcn.TableName = tbl.TABLE_NAME
                                    AND dcn.ColumnName = col.COLUMN_NAME
        LEFT OUTER JOIN ( SELECT    cu.TABLE_CATALOG ,
                                    cu.TABLE_SCHEMA ,
                                    cu.TABLE_NAME ,
                                    cu.COLUMN_NAME ,
                                    c.CONSTRAINT_CATALOG ,
                                    c.CONSTRAINT_SCHEMA ,
                                    c.CONSTRAINT_NAME ,
                                    c.CHECK_CLAUSE
                          FROM      INFORMATION_SCHEMA.CONSTRAINT_COLUMN_USAGE
                                    AS cu
                                    INNER JOIN INFORMATION_SCHEMA.CHECK_CONSTRAINTS
                                    AS c ON c.CONSTRAINT_NAME = cu.CONSTRAINT_NAME
                        ) AS cc ON cc.TABLE_SCHEMA = tbl.TABLE_SCHEMA
                                   AND cc.TABLE_NAME = tbl.TABLE_NAME
                                   AND cc.COLUMN_NAME = col.COLUMN_NAME


GO
```

Uses

Utils

Used By

[Utils].[uvw_FindTablesStorageBytes]

[Utils].[uvw_FindTablesStorageBytes]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls On	True
Quoted Identifier On	True
Created	7:05:38 AM Tuesday, September 5, 2017
Last Modified	7:05:38 AM Tuesday, September 5, 2017

Columns

Name	Data Type	Max Length (Bytes)
FullyQualifiedTableName	nvarchar(257)	514
ColumnName	[sys].[sysname]	256
DataType	nvarchar(128)	256
OrdinalPosition	int	4
StorageBytes	int	4

SQL Script

```
create view [Utils].[uvw_FindTablesStorageBytes] as
select FullyQualifiedTableName
     , ColumnName
     , DataType
     , OrdinalPosition
     , StorageBytes = case
                          when charindex('(', DataType, 0) > 0
                               and substring(DataType, 1, 3) = 'var' then
                              cast(substring(
                                               DataType
                                             , charindex('(', DataType, 0) + 1
                                             , len(DataType) - charindex('(', DataType, 0) - 1
                                           ) as int) + 2
                          when charindex('(', DataType, 0) > 0
                               and substring(DataType, 1, 3) = 'cha' then
                              cast(substring(
                                               DataType
                                             , charindex('(', DataType, 0) + 1
                                             , len(DataType) - charindex('(', DataType, 0) - 1
                                           ) as int)
                          when substring(DataType, 1, 3) = 'int' then
```

```
                                4
                            when substring(DataType, 1, 3) = 'mon' then
                                4
                            when substring(DataType, 1, 3) = 'dat' then
                                3
                            else
                                -999
                        end
from Utils.uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint
where (SchemaName like 'CH%');
GO
```

Uses

[Utils].[uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint]
Utils

Stored Procedures

Objects

Name
Process.usp_TrackWorkFlow
Project2.AddForeignKeysToStarSchemaData
Project2.DropForeignKeysFromStarSchemaData
Project2.Load_Data
Project2.Load_DimCustomer
Project2.Load_DimGender
Project2.Load_DimMaritalStatus
Project2.Load_DimOccupation
Project2.Load_DimOrderDate
Project2.Load_DimProduct
Project2.Load_DimProductCategory
Project2.Load_DimProductSubcategory
Project2.Load_DimTerritory
Project2.Load_SalesManagers
Project2.LoadStarSchemaData
Project2.ResetSequenceObjects
Project2.ShowTableStatusRowCount
Project2.sp_AddColumns
Project2.sp_AddGroupMembers
Project2.sp_AddPkConstraint
Project2.sp_CreateSO
Project2.sp_CreateTables
Project2.sp_DropColumns
Project2.sp_DropPkConstraint
Project2.sp_InitSetup
Project2.TruncateStarSchemaData
Utils.DropProcsInCSCI331FinalProject

[Process].[usp_TrackWorkFlow]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4
@WorkFlowStepTableRowCount	int	4
@WorkFlowStepDescription	nvarchar(100)	200

SQL Script

```
CREATE   PROCEDURE [Process].[usp_TrackWorkFlow]
    @UserAuthorizationKey INT,
    @WorkFlowStepTableRowCount INT,
    @WorkFlowStepDescription NVARCHAR(100)
AS
BEGIN
    INSERT INTO Process.WorkFlowSteps
        (WorkFlowStepDescription, UserAuthorizationKey, WorkFlowStepTableRowCount)
    VALUES(@WorkFlowStepDescription, @UserAuthorizationKey, @WorkFlowStepTableRowCount);
END
GO
```

Uses

[Process].[WorkflowSteps]
Process

Used By

[Project2].[AddForeignKeysToStarSchemaData]
[Project2].[DropForeignKeysFromStarSchemaData]
[Project2].[Load_Data]
[Project2].[Load_DimCustomer]
[Project2].[Load_DimGender]
[Project2].[Load_DimMaritalStatus]

[Project2].[Load_DimOccupation]
[Project2].[Load_DimOrderDate]
[Project2].[Load_DimProduct]
[Project2].[Load_DimProductCategory]
[Project2].[Load_DimProductSubcategory]
[Project2].[Load_DimTerritory]
[Project2].[Load_SalesManagers]
[Project2].[ResetSequenceObjects]
[Project2].[ShowTableStatusRowCount]
[Project2].[sp_AddPkConstraint]
[Project2].[sp_DropPkConstraint]
[Project2].[TruncateStarSchemaData]

[Project2].[AddForeignKeysToStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author: Benjamin Zhong
-- Create date: 11/16/2024
-- Description:    add foreign keys to star schema
-- =============================================
CREATE PROCEDURE [Project2].[AddForeignKeysToStarSchemaData]
    @UserAuthorizationKey int

AS
BEGIN
    SET NOCOUNT ON
    DECLARE @PrimaryKey VARCHAR(255)
    DECLARE @SQL VARCHAR(MAX)
    DECLARE @FTableName VarChar(255)
    DECLARE @TableName VarChar(255)

    DECLARE PrimaryKeyCursor CURSOR FOR

    SELECT DISTINCT
        '[' + kcu.CONSTRAINT_SCHEMA + '].[' + kcu.TABLE_NAME + ']' as fullqualifiedtablename,
        kcu.COLUMN_NAME as primarykeycolumn,
        kcu.TABLE_NAME as tablename
    FROM INFORMATION_SCHEMA.KEY_COLUMN_USAGE as kcu
    WHERE TABLE_SCHEMA LIKE '%DIMENSION%' AND CONSTRAINT_NAME LIKE '%PK%' AND LOWER(TABLE_NAME)
NOT LIKE '%category%'

    OPEN PrimaryKeyCursor

    FETCH NEXT FROM PrimaryKeyCursor INTO  @FTableName, @PrimaryKey, @TableName
```

```
    While @@FETCH_STATUS = 0
    BEGIN
        SET @SQL = 'ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT FK_'+@TableName+' FOREIGN
KEY (' + @PrimaryKey + ') REFERENCES ' + @FTableName + '(' + @PrimaryKey + ')'
        EXEC (@SQL)
        FETCH NEXT FROM PrimaryKeyCursor INTO @FTableName, @PrimaryKey, @TableName
    END

    CLOSE PrimaryKeyCursor
    DEALLOCATE PrimaryKeyCursor

    --Manual Constraints for DimProduct Table.
    ALTER TABLE [CH01-01-Dimension].[DimProduct]
    ADD CONSTRAINT FK_DimProductSubcategory Foreign Key(ProductSubcategoryKey)
    REFERENCES [CH01-01-Dimension].[DimProductSubcategory](ProductSubcategoryKey)

    ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory]
    ADD CONSTRAINT FK_DimProductCategory Foreign Key(ProductCategoryKey)
    REFERENCES [CH01-01-Dimension].[DimProductCategory](ProductCategoryKey)


    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Add Foreign Keys.',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = -1;

END;
GO
```

Uses

[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]
[Project2].[sp_InitSetup]

[Project2].[DropForeignKeysFromStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
CREATE PROCEDURE [Project2].[DropForeignKeysFromStarSchemaData]
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;

    Declare @ForeignKeyName VARCHAR(255)
    DECLARE @SQL VARCHAR(MAX)
    DECLARE @TableName VARCHAR(255)
    DECLARE ForeignKeyCursor CURSOR FOR

    SELECT fk.name as ForeignKeyName,
        QUOTENAME(OBJECT_SCHEMA_NAME(fk.parent_object_id)) + '.'+t.name as TableName
    FROM sys.foreign_keys as fk
    INNER JOIN sys.tables as t on fk.parent_object_id = t.object_id

    OPEN ForeignKeyCursor

    FETCH NEXT FROM ForeignKeyCursor INTO @ForeignKeyName, @TableName

    WHILE @@FETCH_STATUS = 0
    BEGIN
        SET @SQL = 'ALTER TABLE ' + @TableName + ' DROP CONSTRAINT IF EXISTS ' + @ForeignKeyName
+ ';'
        EXEC(@SQL)

        FETCH NEXT FROM ForeignKeyCursor INTO @ForeignKeyName, @TableName
    END
```

```
    CLOSE ForeignKeyCursor
    DEALLOCATE ForeignKeyCursor

    --Manual Process for Dim.Product Table
    ALTER TABLE [CH01-01-Dimension].[DimProduct] DROP CONSTRAINT IF EXISTS FK_DimProduct-
Subcategory;
    ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] DROP CONSTRAINT IF EXISTS FK_Dim-
ProductCategory;

    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Drop Foreign Keys.',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = -1;

END;
GO
```

Uses

[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]
[Project2].[sp_InitSetup]

[Project2].[Load_Data]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
-- ============================================
-- Author: Dillon Chen/Debugged by: Inderpreet Singh
-- Create date: 11/18/2024
-- Description: Inserts all data into one Fact.Data table.
-- ============================================
CREATE   PROCEDURE [Project2].[Load_Data]
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;

    DECLARE @WorkFlowStepTableRowCount INT;

    -- Insert data into Fact.Data table
    INSERT INTO [CH01-01-Fact].[Data]
    (
        SalesManagerKey,
        OccupationKey,
        TerritoryKey,
        ProductKey,
        CustomerKey,
        ProductCategory,
        SalesManager,
        ProductSubcategory,
        ProductCode,
        ProductName,
        Color,
        ModelName,
        OrderQuantity,
        UnitPrice,
```

```
        ProductStandardCost,
        SalesAmount,
        OrderDate,
        MonthName,
        [Year],
        CustomerName,
        MaritalStatus,
        Gender,
        Education,
        Occupation,
        TerritoryRegion,
        TerritoryCountry,
        TerritoryGroup,
        UserAuthorizationKey
    )
    SELECT
        SM.SalesManagerKey,
        DO.OccupationKey,
        DT.TerritoryKey,
        DP.ProductKey,
        DC.CustomerKey,
        OLD.ProductCategory,
        OLD.SalesManager,
        OLD.ProductSubcategory,
        OLD.ProductCode,
        OLD.ProductName,
        OLD.Color,
        OLD.ModelName,
        OLD.OrderQuantity,
        OLD.UnitPrice,
        OLD.ProductStandardCost,
        OLD.SalesAmount,
        OLD.OrderDate,
        OLD.MonthName,
        OLD.[Year],
        OLD.CustomerName,
        OLD.MaritalStatus,
        OLD.Gender,
        OLD.Education,
        OLD.Occupation,
        OLD.TerritoryRegion,
        OLD.TerritoryCountry,
        OLD.TerritoryGroup,
        @UserAuthorizationKey
    FROM FileUpload.OriginallyLoadedData AS OLD
    INNER JOIN [CH01-01-Dimension].[SalesManagers] AS SM
        ON SM.SalesManager = OLD.SalesManager
    INNER JOIN [CH01-01-Dimension].[DimOccupation] AS DO
        ON DO.Occupation = OLD.Occupation
    INNER JOIN [CH01-01-Dimension].[DimTerritory] AS DT
        ON DT.TerritoryGroup = OLD.TerritoryGroup
        AND DT.TerritoryCountry = OLD.TerritoryCountry
        AND DT.TerritoryRegion = OLD.TerritoryRegion
```

```
    INNER JOIN [CH01-01-Dimension].[DimProduct] AS DP
        ON DP.ProductName = OLD.ProductName
    INNER JOIN [CH01-01-Dimension].[DimCustomer] AS DC
        ON DC.CustomerName = OLD.CustomerName;

    -- Get the row count
    SELECT @WorkFlowStepTableRowCount = @@ROWCOUNT;

    -- Track workflow for the operation
    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Loaded all data into Fact.Data table',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = @WorkFlowStepTableRowCount;
END
GO
```

Uses

[CH01-01-Dimension].[DimCustomer]
[CH01-01-Dimension].[DimOccupation]
[CH01-01-Dimension].[DimProduct]
[CH01-01-Dimension].[DimTerritory]
[CH01-01-Dimension].[SalesManagers]
[CH01-01-Fact].[Data]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_DimCustomer]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
CREATE PROCEDURE [Project2].[Load_DimCustomer]
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON
    DECLARE @WorkFlowStepTableRowCount INT

    INSERT INTO [CH01-01-Dimension].[DimCustomer]
    (
        CustomerName, UserAuthorizationKey
    )
    SELECT
        new.CustomerName,
        @UserAuthorizationKey
    FROM (
        SELECT DISTINCT
        old.CustomerName
        FROM FileUpload.OriginallyLoadedData as old
    ) as new

    -- get rowcount of modified dimcustomer talbe
    SELECT @WorkFlowStepTableRowCount = @@ROWCOUNT;

    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Loading Customer into the DimCustomer Table.',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = @@ROWCOUNT;
END
GO
```

Uses

[CH01-01-Dimension].[DimCustomer]

[FileUpload].[OriginallyLoadedData]

[Process].[usp_TrackWorkFlow]

Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_DimGender]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
CREATE PROCEDURE [Project2].[Load_DimGender]
    @UserAuthorizationKey INT
AS
BEGIN
    DECLARE @WorkFlowStepTableRowCount INT;
    INSERT INTO [CH01-01-Dimension].[DimGender] (
        Gender,
        GenderDescription,
        UserAuthorizationKey
    )
    SELECT DISTINCT OLD.Gender,
        CASE
            WHEN OLD.Gender = 'M' THEN 'Male'
            WHEN OLD.Gender = 'F' THEN 'Female'
        END AS GenderDescription,
        @UserAuthorizationKey
    FROM FileUpload.OriginallyLoadedData AS OLD;
    SELECT @WorkFlowStepTableRowCount = @@ROWCOUNT;
    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Loading Gender data into Gender Table',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = @@ROWCOUNT;
END
GO
```

Uses

[CH01-01-Dimension].[DimGender]

[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_DimMaritalStatus]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
CREATE PROCEDURE [Project2].[Load_DimMaritalStatus]
    @UserAuthorizationKey INT
AS
BEGIN
    DECLARE @WorkFlowStepTableRowCount INT;
    INSERT INTO [CH01-01-Dimension].[DimMaritalStatus] (
        MaritalStatus,
        MaritalStatusDescription,
        UserAuthorizationKey
    )
    SELECT DISTINCT
    OLD.MaritalStatus,
    CASE
            WHEN OLD.MaritalStatus = 'M' THEN 'Married'
            WHEN OLD.MaritalStatus = 'S' THEN 'Single'
        END AS MaritalStatusDescription,
        @UserAuthorizationKey
    FROM FileUpload.OriginallyLoadedData AS OLD;
    SELECT @WorkFlowStepTableRowCount = @@ROWCOUNT;
    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription =  'Loading Data into the DimMaritalStatus Table',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = @@ROWCOUNT;

END
GO
```

Uses

[CH01-01-Dimension].[DimMaritalStatus]

[FileUpload].[OriginallyLoadedData]

[Process].[usp_TrackWorkFlow]

Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_DimOccupation]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
CREATE PROCEDURE [Project2].[Load_DimOccupation]
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;

    DECLARE @WorkFlowStepTableRowCount INT;

    -- Insert data into DimOccupation table
    INSERT INTO [CH01-01-Dimension].[DimOccupation] (
        Occupation,
        UserAuthorizationKey
    )
    SELECT DISTINCT
        O.Occupation,
        @UserAuthorizationKey
    FROM (
        SELECT DISTINCT Occupation
        FROM [FileUpload].[OriginallyLoadedData]
    ) AS O;

    -- Get the row count of inserted rows
    SELECT @WorkFlowStepTableRowCount = @@ROWCOUNT;

    -- Track the workflow step
    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Loading data into the DimOccupation Table',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = @WorkFlowStepTableRowCount;
END
```

```
GO
```

Uses

[CH01-01-Dimension].[DimOccupation]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_DimOrderDate]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
CREATE PROCEDURE [Project2].[Load_DimOrderDate]
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;

    DECLARE @WorkFlowStepTableRowCount INT;

    -- Insert data into DimOrderDate table
    INSERT INTO [CH01-01-Dimension].[DimOrderDate] (
        OrderDate,
        MonthName,
        MonthNumber,
        [Year],
        UserAuthorizationKey
    )
    SELECT DISTINCT
        OrderDate,
        MonthName,
        MonthNumber,
        [Year],
        @UserAuthorizationKey
    FROM [FileUpload].OriginallyLoadedData;

    -- Get the row count of inserted rows
    SELECT @WorkFlowStepTableRowCount = @@ROWCOUNT;

    -- Track the workflow step
    EXEC Process.usp_TrackWorkFlow
        @WorkFlowStepDescription = 'Loading OrderDate data into DimOrderDate table',
```

```
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = @WorkFlowStepTableRowCount;
END
GO
```

Uses

[CH01-01-Dimension].[DimOrderDate]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_DimProduct]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author:      Nafisul Islam Debugged by: Inderpreet Singh
-- Create date: 11/17/2024
-- Description: Loads data into the DimProduct table.
-- =============================================
CREATE   PROCEDURE [Project2].[Load_DimProduct]
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;

    DECLARE @WorkFlowStepTableRowCount INT; -- Declaring the variable

    -- Insert data into DimProduct table
    INSERT INTO [CH01-01-Dimension].[DimProduct] (
        ProductSubcategoryKey,
        ProductCategory,
        ProductSubcategory,
        ProductCode,
        ProductName,
        Color,
        ModelName,
        UserAuthorizationKey
    )
    SELECT DISTINCT
        new.ProductSubcategoryKey,
        new.ProductCategory,
        new.ProductSubcategory,
        new.ProductCode,
        new.ProductName,
```

```
        new.Color,
        new.ModelName,
        @UserAuthorizationKey
    FROM (
        SELECT DISTINCT
            dps.ProductSubcategoryKey,
            dpc.ProductCategory,
            dps.ProductSubcategory,
            old.ProductCode,
            old.ProductName,
            old.Color,
            old.ModelName
        FROM [FileUpload].OriginallyLoadedData AS old
        INNER JOIN [CH01-01-Dimension].[DimProductCategory] AS dpc
            ON old.ProductCategory = dpc.ProductCategory
        INNER JOIN [CH01-01-Dimension].[DimProductSubcategory] AS dps
            ON old.ProductSubcategory = dps.ProductSubcategory
    ) AS new;

    -- Record the number of rows inserted
    SELECT @WorkFlowStepTableRowCount = @@ROWCOUNT;

    -- Track workflow for the operation
    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Loading data into the DimProduct Table',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = @WorkFlowStepTableRowCount;

END
GO
```

Uses

[CH01-01-Dimension].[DimProduct]
[CH01-01-Dimension].[DimProductCategory]
[CH01-01-Dimension].[DimProductSubcategory]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_DimProductCategory]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author:      Nafisul Islam debugged by : Inderpreet Singh
-- Create date: 11/17/2024
-- Description: Loads data into the DimProductCategory table.
-- =============================================
CREATE   PROCEDURE [Project2].[Load_DimProductCategory]
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;

    DECLARE @WorkFlowStepTableRowCount INT; -- Declaring the variable

    -- Insert data into DimProductCategory table
    INSERT INTO [CH01-01-Dimension].[DimProductCategory] (
        ProductCategory,
        UserAuthorizationKey
    )
    SELECT DISTINCT
        new.ProductCategory,
        @UserAuthorizationKey
    FROM (
        SELECT DISTINCT
            old.ProductCategory
        FROM [FileUpload].OriginallyLoadedData AS old
    ) AS new;

    SELECT @WorkFlowStepTableRowCount = @@ROWCOUNT;
```

```
    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Loading data into the DimProductCategory Table',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = @WorkFlowStepTableRowCount;

END
GO
```

Uses

[CH01-01-Dimension].[DimProductCategory]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_DimProductSubcategory]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author:    Nafisul Islam, debugged by:Inderpreet Singh
-- Create date: 11/17/2024
-- Description: Loads data into the DimProductSubcategory table.
-- =============================================
CREATE   PROCEDURE [Project2].[Load_DimProductSubcategory]
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;

    DECLARE @WorkFlowStepTableRowCount INT; -- Declaring the variable

    -- Insert the data from the FileUpload
    INSERT INTO [CH01-01-Dimension].[DimProductSubcategory] (
        ProductSubcategory,
        ProductCategoryKey,
        UserAuthorizationKey
    )
    SELECT DISTINCT
        OLD.ProductSubcategory,
        OLD.ProductCategoryKey,
        @UserAuthorizationKey
    FROM (
        SELECT DISTINCT d.ProductSubcategory, c.ProductCategoryKey
        FROM [FileUpload].OriginallyLoadedData d
        INNER JOIN [CH01-01-Dimension].DimProductCategory c ON d.ProductCategory = c.Product-
Category
    ) AS OLD;
```

```
    SELECT @WorkFlowStepTableRowCount = @@ROWCOUNT;

    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Loading data into the DimProductSubcategory Table',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = @WorkFlowStepTableRowCount;

END;
GO
```

Uses

[CH01-01-Dimension].[DimProductCategory]
[CH01-01-Dimension].[DimProductSubcategory]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_DimTerritory]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
CREATE PROCEDURE [Project2].[Load_DimTerritory]
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;

    DECLARE @WorkFlowStepTableRowCount INT; -- Declaring the variable

    INSERT INTO [CH01-01-Dimension].[DimTerritory] (
        TerritoryGroup,
        TerritoryCountry,
        TerritoryRegion,
        UserAuthorizationKey
    )
    SELECT
        TerritoryGroup,
        TerritoryCountry,
        TerritoryRegion,
        @UserAuthorizationKey
    FROM (
        SELECT DISTINCT
            TerritoryGroup,
            TerritoryCountry,
            TerritoryRegion
        FROM [FileUpload].OriginallyLoadedData
    ) AS T;

    -- Assigning a value to the variable
    SELECT @WorkFlowStepTableRowCount = @@ROWCOUNT;

    EXEC [Process].[usp_TrackWorkFlow]
```

```
        @WorkFlowStepDescription = 'Loading data into the DimTerritory Table',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = @WorkFlowStepTableRowCount; -- Use the variable in EXEC
statement

END
GO
```

Uses

[CH01-01-Dimension].[DimTerritory]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_SalesManagers]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
CREATE PROCEDURE [Project2].[Load_SalesManagers]
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;

    DECLARE @WorkFlowStepTableRowCount INT; -- Declaring the variable

    INSERT INTO [CH01-01-Dimension].[SalesManagers] (
        Category,
        SalesManager,
        Office,
        UserAuthorizationKey
    )
    SELECT DISTINCT
        ProductCategory, -- Adjust this according to the data
        SalesManager,
        CASE
            WHEN SalesManager LIKE N'Maurizio%' OR SalesManager LIKE N'Marco%' THEN 'Redmond'
            WHEN SalesManager LIKE N'Alberto%' OR SalesManager LIKE N'Luis%' THEN 'Seattle'
            ELSE 'Seattle'
        END AS Office,
        @UserAuthorizationKey
    FROM (
        SELECT DISTINCT ProductCategory, SalesManager
        FROM [FileUpload].OriginallyLoadedData
    ) AS S;

    SET @WorkFlowStepTableRowCount = @@ROWCOUNT; -- Assigning a value to the variable
```

```
    EXEC [Process].[usp_TrackWorkFlow]
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepDescription = 'Loading data into the SalesManager Table',
        @WorkFlowStepTableRowCount = @WorkFlowStepTableRowCount; -- Calling the stored procedure

END
GO
```

Uses

[CH01-01-Dimension].[SalesManagers]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[LoadStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- =============================================
-- Author:        YourName
-- Create date:
-- Description:
-- =============================================
CREATE PROCEDURE [Project2].[LoadStarSchemaData]
    -- Add the parameters for the stored procedure here
AS
BEGIN
    SET NOCOUNT ON;

    --
    --    Drop All of the foreign keys prior to truncating tables in the star schema
     --
    EXEC  [Project2].[DropForeignKeysFromStarSchemaData] @UserAuthorizationKey = 1;
    --
    --    Check row count before truncation
    EXEC    [Project2].[ShowTableStatusRowCount]
      @UserAuthorizationKey = 3,  -- Change -1 to the appropriate UserAuthorizationKey
      @TableStatus = N'''Pre-truncate of tables'''
      --
      --    Always truncate the Star Schema Data
    --
    EXEC  [Project2].[TruncateStarSchemaData] @UserAuthorizationKey = 1;
    --
    --    Load the star schema
    --
    EXEC  [Project2].[Load_DimProductCategory] @UserAuthorizationKey = 4;  -- Change -1 to the
appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimProductSubcategory] @UserAuthorizationKey = 4;  -- Change -1 to the
appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimProduct] @UserAuthorizationKey = 5;  -- Change -1 to the
appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_SalesManagers] @UserAuthorizationKey = 6;  -- Change -1 to the
appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimGender] @UserAuthorizationKey = 5;  -- Change -1 to the appropriate
UserAuthorizationKey
    EXEC  [Project2].[Load_DimMaritalStatus] @UserAuthorizationKey = 5;  -- Change -1 to the
```

```
appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimOccupation] @UserAuthorizationKey = 5;  -- Change -1 to the
appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimOrderDate] @UserAuthorizationKey = 5;  -- Change -1 to the
appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimTerritory] @UserAuthorizationKey = 4;  -- Change -1 to the
appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimCustomer] @UserAuthorizationKey = 1;  -- Change -1 to the
appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_Data] @UserAuthorizationKey = 5;  -- Change -1 to the appropriate
UserAuthorizationKey
  --
    --    Recreate all of the foreign keys prior after loading the star schema
    --
     --
    --    Check row count before truncation
    EXEC    [Project2].[ShowTableStatusRowCount]
        @UserAuthorizationKey = 3,  -- Change -1 to the appropriate UserAuthorizationKey
        @TableStatus = N'''Row Count after loading the star schema'''
    --
   EXEC [Project2].[AddForeignKeysToStarSchemaData] @UserAuthorizationKey = 1;  -- Change -1 to
the appropriate UserAuthorizationKey
    --
END;
GO
```

Uses

[Project2].[AddForeignKeysToStarSchemaData]
[Project2].[DropForeignKeysFromStarSchemaData]
[Project2].[Load_Data]
[Project2].[Load_DimCustomer]
[Project2].[Load_DimGender]
[Project2].[Load_DimMaritalStatus]
[Project2].[Load_DimOccupation]
[Project2].[Load_DimOrderDate]
[Project2].[Load_DimProduct]
[Project2].[Load_DimProductCategory]
[Project2].[Load_DimProductSubcategory]
[Project2].[Load_DimTerritory]
[Project2].[Load_SalesManagers]
[Project2].[ShowTableStatusRowCount]
[Project2].[TruncateStarSchemaData]
Project2

[Project2].[ResetSequenceObjects]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
CREATE PROCEDURE [Project2].[ResetSequenceObjects]
    @UserAuthorizationKey int
AS
BEGIN
    SET NOCOUNT ON
    DECLARE SequenceObjectCursor CURSOR FOR
    SELECT DISTINCT
        '[' + schema_name(schema_id) + '].[' + [name] + ']' as SequenceObjectName
    FROM sys.sequences


    OPEN SequenceObjectCursor
    DECLARE @SequenceObjectName NVARCHAR(255)
    DECLARE @SQL VARCHAR(MAX)

    FETCH NEXT FROM SequenceObjectCursor INTO @SequenceObjectName

    WHILE @@FETCH_STATUS = 0
    BEGIN
        SET @SQL = 'ALTER SEQUENCE ' + @SequenceObjectName + ' RESTART WITH 1;'
        EXEC(@SQL)

        FETCH NEXT FROM SequenceObjectCursor INTO @SequenceObjectName
    END

    CLOSE SequenceObjectCursor

    DEALLOCATE SequenceObjectCursor
```

```
    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Reset Sequence Objects.',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = -1;
END
GO
```

Uses

[Process].[usp_TrackWorkFlow]

Project2

[Project2].[ShowTableStatusRowCount]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4
@TableStatus	varchar(64)	64

SQL Script

```
CREATE PROCEDURE [Project2].[ShowTableStatusRowCount]
@UserAuthorizationKey INT,
@TableStatus VARCHAR(64)

AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;



    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.DimCustomer', COUNT(*) FROM
[CH01-01-Dimension].DimCustomer
    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.DimGender', COUNT(*) FROM
[CH01-01-Dimension].DimGender
    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.DimMaritalStatus', COUNT(*)
FROM [CH01-01-Dimension].DimMaritalStatus
    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.DimOccupation', COUNT(*)
FROM [CH01-01-Dimension].DimOccupation
    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.DimOrderDate', COUNT(*) FROM
[CH01-01-Dimension].DimOrderDate
    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.DimProduct', COUNT(*) FROM
[CH01-01-Dimension].DimProduct
    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.DimProductCategory',
COUNT(*) FROM [CH01-01-Dimension].DimProductCategory
    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.DimProductSubcategory',
COUNT(*) FROM [CH01-01-Dimension].DimProductSubcategory
    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.DimTerritory', COUNT(*) FROM
[CH01-01-Dimension].DimTerritory
    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.SalesManagers', COUNT(*)
FROM [CH01-01-Dimension].SalesManagers
```

```
    select TableStatus = @TableStatus, TableName ='CH01-01-Fact.Data', COUNT(*) FROM [CH01-01-
Fact].Data

    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Show Table Status Row Count.',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = -1;
END
GO
```

Uses

[CH01-01-Dimension].[DimCustomer]
[CH01-01-Dimension].[DimGender]
[CH01-01-Dimension].[DimMaritalStatus]
[CH01-01-Dimension].[DimOccupation]
[CH01-01-Dimension].[DimOrderDate]
[CH01-01-Dimension].[DimProduct]
[CH01-01-Dimension].[DimProductCategory]
[CH01-01-Dimension].[DimProductSubcategory]
[CH01-01-Dimension].[DimTerritory]
[CH01-01-Dimension].[SalesManagers]
[CH01-01-Fact].[Data]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[sp_AddColumns]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- =============================================
-- Author:        Arnan Khan
-- Create date: 11/16/2024
-- Description:    Adds all the required columns with the default.
--
--
--
-- =============================================
CREATE   PROCEDURE [Project2].[sp_AddColumns]
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- List of tables where the column needs to be added
    DECLARE @TableName VARCHAR(500), @SQL VARCHAR(MAX);
    DECLARE AddCursor CURSOR FOR

    SELECT DISTINCT
        '[' + t.TABLE_SCHEMA + '].[' + t.TABLE_NAME + ']' as fullqualifiedtablename
    FROM INFORMATION_SCHEMA.Tables as t
    WHERE TABLE_SCHEMA LIKE '%CH01%'

    OPEN AddCursor

    FETCH NEXT FROM AddCursor INTO  @TableName

    While @@FETCH_STATUS = 0
    BEGIN
        SET @SQL = 'ALTER TABLE ' + @TableName + + 'ADD [UserAuthorizationKey] [int] NOT NULL;'
        EXEC (@SQL)
        FETCH NEXT FROM AddCursor INTO @TableName
    END

    CLOSE AddCursor
    DEALLOCATE AddCursor
```

```
    --Convert Keys to Sequence Objects
    ALTER TABLE [CH01-01-Dimension].[DimCustomer]
    ADD CustomerKey INT NOT NULL CONSTRAINT DF_DimCustomer_Key DEFAULT (NEXT VALUE FOR
[PKSequence].[DimCustomerSequenceObject]);
    ALTER TABLE [CH01-01-Dimension].[DimOccupation]
    ADD OccupationKey INT NOT NULL CONSTRAINT DF_DimOccupation_Key DEFAULT(NEXT VALUE FOR
[PKSequence].[DimOccupationSequenceObject]);
    ALTER TABLE [CH01-01-Dimension].[DimProduct]
    ADD ProductKey INT NOT NULL CONSTRAINT DF_DimProduct_Key DEFAULT(NEXT VALUE FOR
[PKSequence].[DimProductSequenceObject]);
    ALTER TABLE [CH01-01-Dimension].[DimTerritory]
    ADD TerritoryKey INT NOT NULL CONSTRAINT DF_DimTerritory_Key DEFAULT(NEXT VALUE FOR
[PKSequence].[DimTerritorySequenceObject]);
    ALTER TABLE [CH01-01-Dimension].[SalesManagers]
    ADD SalesManagerKey INT NOT NULL CONSTRAINT DF_SalesManager_Key DEFAULT(NEXT VALUE FOR
[PKSequence].[SalesManagersSequenceObject]);
    ALTER TABLE [CH01-01-Fact].[Data]
    ADD SalesKey INT NOT NULL CONSTRAINT DF_Sales_Key DEFAULT(NEXT VALUE FOR [PKSequence].[Data-
SequenceObject]);




END;


GO
```

Uses

Project2

Used By

[Project2].[sp_InitSetup]

[Project2].[sp_AddGroupMembers]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- =============================================
-- Author:        Arnan Khan
-- Create date: 11/17/2024
-- Description:
--
-- Add Group Members.
--
-- =============================================
CREATE   PROCEDURE [Project2].[sp_AddGroupMembers]
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
    INSERT INTO DbSecurity.UserAuthorization (GroupMemberFirstName, GroupMemberLastName)
    VALUES
        ('Benjamin', 'Zhong'),
        ('Arnan', 'Khan'),
        ('Luis', 'Diaz'),
        ('Nafisul', 'Islam'),
        ('Dillon', 'Chen'),
        ('Inderpreet', 'Singh');




END;


GO
```

Uses

[DbSecurity].[UserAuthorization]
Project2

Used By

[Project2].[sp_InitSetup]

[Project2].[sp_AddPkConstraint]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
-- ================================================
-- Author:        Arnan Khan
-- Create date: 11/16/2024
-- Description:    Add the PK Constraint.
--
--
--
-- ================================================
CREATE   PROCEDURE [Project2].[sp_AddPkConstraint]
    @UserAuthorizationKey int

AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;



    ALTER TABLE [CH01-01-Dimension].[DimCustomer]  ADD CONSTRAINT PK_CustomerKey PRIMARY
KEY(CustomerKey);
    ALTER TABLE [CH01-01-Dimension].[DimOccupation]  ADD CONSTRAINT PK_OccupationKey PRIMARY
KEY(OccupationKey);
    ALTER TABLE [CH01-01-Dimension].[DimProduct]  ADD CONSTRAINT PK_ProductKey PRIMARY
KEY(ProductKey);
    ALTER TABLE [CH01-01-Dimension].[DimTerritory]  ADD CONSTRAINT PK_TerritoryKey PRIMARY
KEY(TerritoryKey);
    ALTER TABLE [CH01-01-Dimension].[SalesManagers]  ADD CONSTRAINT PK_SalesManagerKey PRIMARY
KEY(SalesManagerKey);
    ALTER TABLE [CH01-01-Fact].[Data]  ADD CONSTRAINT PK_SalesKey PRIMARY KEY(SalesKey);


    EXEC [Process].[usp_TrackWorkFlow]
```

```
        @WorkFlowStepDescription = 'Add PK Constraint.',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = -1;

END;


GO
```

Uses

[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[sp_InitSetup]

[Project2].[sp_CreateSO]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- =============================================
-- Author:        Arnan Khan
-- Create date: 11/16/2024
-- Description:
--
-- Creates all the required Sequence Objects
--
-- =============================================
CREATE   PROCEDURE [Project2].[sp_CreateSO]
AS
BEGIN

    IF NOT EXISTS (SELECT * FROM sys.schemas WHERE name = 'PKSequence')
    BEGIN
        EXEC('CREATE SCHEMA [PKSequence]');
    END

    CREATE SEQUENCE [PKSequence].[DataSequenceObject]
        AS int
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        NO CYCLE
        CACHE

    CREATE SEQUENCE [PKSequence].[DimCustomerSequenceObject]
        AS int
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        NO CYCLE
        CACHE


    CREATE SEQUENCE [PKSequence].[DimOccupationSequenceObject]
```

```
        AS int
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        NO CYCLE
        CACHE

    CREATE SEQUENCE [PKSequence].[DimProductSequenceObject]
        AS int
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        NO CYCLE
        CACHE

    CREATE SEQUENCE [PKSequence].[DimProductCategorySequenceObject]
        AS int
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        NO CYCLE
        CACHE

    CREATE SEQUENCE [PKSequence].[DimProductSubcategorySequenceObject]
        AS int
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        NO CYCLE
        CACHE

    CREATE SEQUENCE [PKSequence].[DimTerritorySequenceObject]
        AS int
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        NO CYCLE
        CACHE

    CREATE SEQUENCE [PKSequence].[SalesManagersSequenceObject]
        AS int
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        NO CYCLE
        CACHE
```

```
    CREATE SEQUENCE [PKSequence].[WorkflowStepsSequenceObject]
        AS int
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        NO CYCLE
        CACHE

    CREATE SEQUENCE [PKSequence].[UserAuthorizationSequenceObject]
        AS int
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        NO CYCLE
        CACHE

END;


GO
```

Uses

Project2

Used By

[Project2].[sp_InitSetup]

[Project2].[sp_CreateTables]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- =============================================
-- Author:        Arnan Khan
-- Create date: 11/16/2024
-- Description:
--
-- Creates All the requried Tables and associated Schemas.
--
-- =============================================
CREATE   PROCEDURE [Project2].[sp_CreateTables]
AS
BEGIN
  -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    IF NOT EXISTS (SELECT * FROM sys.schemas WHERE name = 'Process')
    BEGIN
        EXEC('CREATE SCHEMA [Process]');
    END

    DROP TABLE IF EXISTS [Process].[WorkflowSteps];

    CREATE TABLE [Process].[WorkflowSteps](
        WorkFlowStepKey INT NOT NULL CONSTRAINT [DF_WorkflowSteps_Key] DEFAULT (NEXT VALUE FOR
[PKSequence].[WorkflowStepsSequenceObject]), -- primary key
        WorkFlowStepDescription NVARCHAR (100) NOT NULL,
        WorkFlowStepTableRowCount INT NULL DEFAULT (0),
        StartingDateTime DATETIME2(7) NULL DEFAULT (SYSDATETIME ()),
        EndingDateTime DATETIME2(7) NULL DEFAULT (SYSDATETIME ()),
        ClassTime VARCHAR (5) NULL DEFAULT '10:45',
        UserAuthorizationKey INT NOT NULL
    );
    DROP SCHEMA IF EXISTS [DbSecurity];

    IF NOT EXISTS (SELECT * FROM sys.schemas WHERE name = 'DbSecurity')
    BEGIN
        EXEC('CREATE SCHEMA [DbSecurity]');
```

```
    END

    DROP TABLE IF EXISTS [DbSecurity].[UserAuthorization]

    CREATE TABLE [DbSecurity].[UserAuthorization](
        UserAuthorizationKey INT NOT NULL CONSTRAINT [DF_UserAuthorization_Key] DEFAULT (NEXT
VALUE FOR [PKSequence].[UserAuthorizationSequenceObject]), -- primary key
        ClassTime nvarchar (5) Null Default'10:45',
        [Individual Project] nvarchar (60) null default 'PROJECT 2 RECREATE THE BICLASS DATABASE
STAR SCHEMA',
        GroupMemberLastName nvarchar (35) NOT NULL,
        GroupMemberFirstName nvarchar (25) NOT NULL,
        GroupName nvarchar (20) NOT NULL default 'Group 1',
        DateAdded datetime2 null default(SYSDATETIME())
    )

    DROP TABLE IF EXISTS [CH01-01-Dimension].[DimProductCategory]
    CREATE TABLE [CH01-01-Dimension].[DimProductCategory](
        [ProductCategoryKey] [int] NOT NULL CONSTRAINT [DF_DimProductCategory_Key] DEFAULT (NEXT
VALUE FOR [PKSequence].[DimProductCategorySequenceObject]),
        [ProductCategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
        --[UserAuthorizationKey] [int] NOT NULL,
        [DateAdded] [datetime2] NULL CONSTRAINT [DF_DimProductCategory_DateAdded] DEFAULT
(sysdatetime()),
        [DateofLastUpdate] [datetime2] NULL CONSTRAINT [DF_DimProductCategory_DateofLastUpdate]
DEFAULT (sysdatetime()),
        CONSTRAINT [PK_DimProductCategory] PRIMARY KEY ([ProductCategoryKey])
    )

    DROP TABLE IF EXISTS [CH01-01-Dimension].[DimProductSubcategory]
    CREATE TABLE [CH01-01-Dimension].[DimProductSubcategory](
        [ProductSubcategoryKey] [int] NOT NULL CONSTRAINT [DF_DimProductSubcategory_Key] DEFAULT
(NEXT VALUE FOR [PKSequence].[DimProductSubcategorySequenceObject]),
        [ProductCategoryKey] [int] NOT NULL,
        [ProductSubcategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
        --[UserAuthorizationKey] [int] NOT NULL,
        [DateAdded] [datetime2] NULL CONSTRAINT [DFT_DimProductSubcategory_DateAdded] DEFAULT
(sysdatetime()),
        [DateofLastUpdate] [datetime2] NULL CONSTRAINT [DFT_DimProductSubcategory_DateofLast-
Update] DEFAULT (sysdatetime()),
        CONSTRAINT [PK_DimProductSubcategory] PRIMARY KEY ([ProductSubcategoryKey])
    )

END;


GO
```

Uses

Project2

Used By

[Project2].[sp_InitSetup]

[Project2].[sp_DropColumns]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- =============================================
-- Author:        Arnan Khan
-- Create date: 11/16/2024
-- Description:     Drops the columns that utilize identity keys.
--
--
--
-- =============================================
CREATE   PROCEDURE [Project2].[sp_DropColumns]
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;


    ALTER TABLE [CH01-01-Dimension].[DimCustomer] DROP COLUMN CustomerKey
    ALTER TABLE [CH01-01-Dimension].[DimOccupation] DROP COLUMN OccupationKey
    ALTER TABLE [CH01-01-Dimension].[DimProduct] DROP COLUMN ProductKey
    ALTER TABLE [CH01-01-Dimension].[DimTerritory] DROP COLUMN TerritoryKey
    ALTER TABLE [CH01-01-Dimension].[SalesManagers] DROP COLUMN SalesManagerKey
    ALTER TABLE [CH01-01-Fact].[Data] DROP COLUMN SalesKey



END;


GO
```

Uses

Project2

Used By

[Project2].[sp_InitSetup]

[Project2].[sp_DropPkConstraint]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author:        Arnan Khan
-- Create date: 11/16/2024
-- Description:    Drops the PK Constraint.
--
--
--
-- =============================================
CREATE   PROCEDURE [Project2].[sp_DropPkConstraint]
    @UserAuthorizationKey int

AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- List of tables where the column needs to be added
    DECLARE @tables TABLE (TableName NVARCHAR(128));
    INSERT INTO @tables (TableName)
    VALUES
        ('DimCustomer'),
        ('DimOccupation'),
        ('DimProduct'),
        ('DimTerritory'),
        ('SalesManagers'),
        ('Data'),
        ('Fact');
```

```
    Declare @ConstraintName NVARCHAR(128), @TableName NVARCHAR(128), @SQL1 VARCHAR(MAX);

    DECLARE DropPkCursor CURSOR FOR
    SELECT '['+kcu.TABLE_SCHEMA+'].['+kcu.TABLE_NAME+']' as [TableName], kcu.CONSTRAINT_NAME as
[ConstrainName]
    FROM INFORMATION_SCHEMA.KEY_COLUMN_USAGE as kcu
    WHERE kcu.CONSTRAINT_NAME LIKE '%PK%' AND kcu.TABLE_NAME IN (SELECT * FROM @tables)




    Open DropPkCursor
    FETCH NEXT FROM DropPkCursor INTO @TableName, @ConstraintName

    WHILE @@FETCH_STATUS = 0
    BEGIN
        SET @SQL1 = 'ALTER TABLE ' + @TableName + ' DROP CONSTRAINT ' + '['+@Constraint-
Name+']'+';'
        EXEC(@SQL1)
        FETCH NEXT FROM DropPkCursor INTO @TableName, @ConstraintName
    END

    CLOSE DropPkCursor
    DEALLOCATE DropPkCursor

    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Drop PK Constraints.',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = -1;

END;


GO
```

Uses

[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[sp_InitSetup]

[Project2].[sp_InitSetup]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- =============================================
-- Author:        Arnan Khan
-- Create date: 11/16/2024
-- Description:
--
-- Gloabl Setup. Run this ONCE ONLY.
--
-- =============================================
CREATE   PROCEDURE [Project2].[sp_InitSetup]
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
    exec [Project2].[sp_CreateSO]
    exec [Project2].[sp_CreateTables]
    exec [Project2].[DropForeignKeysFromStarSchemaData] @UserAuthorizationKey = 2;
    exec [Project2].[TruncateStarSchemaData] @UserAuthorizationKey = 2;
    exec [Project2].[sp_DropPkConstraint] @UserAuthorizationKey = 2;
    exec [Project2].[sp_DropColumns]
    exec [Project2].[sp_AddColumns]
    exec [Project2].[sp_AddPkConstraint] @UserAuthorizationKey = 2;
    exec [Project2].[AddForeignKeysToStarSchemaData] @UserAuthorizationKey = 2;
    exec [Project2].[sp_AddGroupMembers]

END;


GO
```

Uses

[Project2].[AddForeignKeysToStarSchemaData]
[Project2].[DropForeignKeysFromStarSchemaData]
[Project2].[sp_AddColumns]

[Project2].[sp_AddGroupMembers]
[Project2].[sp_AddPkConstraint]
[Project2].[sp_CreateSO]
[Project2].[sp_CreateTables]
[Project2].[sp_DropColumns]
[Project2].[sp_DropPkConstraint]
[Project2].[TruncateStarSchemaData]
Project2

[Project2].[TruncateStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4

SQL Script

```
CREATE PROCEDURE [Project2].[TruncateStarSchemaData]
    @UserAuthorizationKey int
AS
BEGIN
    SET NOCOUNT ON
    DECLARE TableCursor CURSOR FOR
    SELECT DISTINCT
        '[' + TABLE_SCHEMA + '].[' + TABLE_NAME + ']' as FullyQualifiedTableName
    FROM INFORMATION_SCHEMA.TABLES
    WHERE TABLE_TYPE = 'Base Table' AND TABLE_SCHEMA LIKE '%CH01%'

    OPEN TableCursor
    DECLARE @TableName NVARCHAR(255)
    DECLARE @SQL VARCHAR(MAX)

    FETCH NEXT FROM TableCursor INTO @TableName

    WHILE @@FETCH_STATUS = 0
    BEGIN
        SET @SQL = 'TRUNCATE TABLE ' + @TableName
        EXEC(@SQL)

        FETCH NEXT FROM TableCursor INTO @TableName
    END

    CLOSE TableCursor

    DEALLOCATE TableCursor
```

```
    EXEC [Process].[usp_TrackWorkFlow]
        @WorkFlowStepDescription = 'Truncate Star Schema Data.',
        @UserAuthorizationKey = @UserAuthorizationKey,
        @WorkFlowStepTableRowCount = -1;
END
GO
```

Uses

[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[LoadStarSchemaData]
[Project2].[sp_InitSetup]

[Utils].[DropProcsInCSCI331FinalProject]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- =============================================
-- Author:        Name
-- Create date:
-- Description:
-- =============================================
create procedure [Utils].[DropProcsInCSCI331FinalProject]
as
begin
    set nocount on;

    --select concat('drop prodcedure if exists  ', schema_name(o.schema_id), '.', name)
    --from sys.objects as o
    --where o.type = 'P'
    --      and o.schema_id = 9;

    drop proc if exists Project1.Load_SalesManagers;
    drop proc if exists Project1.Load_DimProductSubcategory;
    drop proc if exists Project1.Load_DimProductCategory;
    drop proc if exists Project1.Load_DimGender;
    drop proc if exists Project1.Load_DimMaritalStatus;
    drop proc if exists Project1.Load_DimOccupation;
    drop proc if exists Project1.Load_DimOrderDate;
    drop proc if exists Project1.Load_DimTerritory;
    drop proc if exists Project1.Load_DimProduct;
    drop proc if exists Project1.Load_DimCustomer;
    drop proc if exists Project1.Load_Data;
    drop proc if exists Project1.TruncateStarSchemaData;
    drop proc if exists Project1.LoadStarSchemaData;
end;
GO
```

Uses

Utils

Scalar-valued Functions

Objects

Name
Utils.CalculateDataTypeByteStorage

[Utils].[CalculateDataTypeByteStorage]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@DataType	varchar(50)	50

SQL Script

```
-- =============================================
-- Author:        Peter Heller
-- Create date:
-- Description:
-- =============================================
create FUNCTION [Utils].[CalculateDataTypeByteStorage]
(
    -- Add the parameters for the function here
    @DataType varchar(50)
)
RETURNS int
AS
BEGIN
    -- Declare the return variable here
    DECLARE @Result int

    -- Return the result of the function
    RETURN  CASE
                        WHEN CHARINDEX('(', @DataType, 0) > 0
                             AND SUBSTRING(@DataType, 1, 3) = 'var' THEN
                            CAST(SUBSTRING(
                                            @DataType
                                          , CHARINDEX('(', @DataType, 0) + 1
                                          , LEN(@DataType) - CHARINDEX('(', @DataType, 0) - 1
                                        ) AS INT) + 2
                        WHEN CHARINDEX('(', @DataType, 0) > 0
                             AND SUBSTRING(@DataType, 1, 3) = 'cha' THEN
                            CAST(SUBSTRING(
                                            @DataType
                                          , CHARINDEX('(', @DataType, 0) + 1
```

```
                                            , LEN(@DataType) - CHARINDEX('(', @DataType, 0) - 1
                                          ) AS INT)
                        WHEN SUBSTRING(@DataType, 1, 3) = 'int' THEN
                            4
                        WHEN SUBSTRING(@DataType, 1, 3) = 'mon' THEN
                            4
                        WHEN SUBSTRING(@DataType, 1, 3) = 'dat' THEN
                            3
                        ELSE
                            -999
                    END

END
GO
```

Uses

Utils

Sequences

Objects

Name
PKSequence.DataSequenceObject
PKSequence.DimCustomerSequenceObject
PKSequence.DimOccupationSequenceObject
PKSequence.DimProductCategorySequenceObject
PKSequence.DimProductSequenceObject
PKSequence.DimProductSubcategorySequenceObject
PKSequence.DimTerritorySequenceObject
PKSequence.SalesManagersSequenceObject
PKSequence.UserAuthorizationSequenceObject
PKSequence.WorkflowStepsSequenceObject

[PKSequence].[DataSequenceObject]

Properties

Property	Value
Owner	PKSequence

SQL Script

```
CREATE SEQUENCE [PKSequence].[DataSequenceObject]
AS int
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 2147483647
NO CYCLE
CACHE
GO
```

Uses

PKSequence

[PKSequence].[DimCustomerSequenceObject]

Properties

Property	Value
Owner	PKSequence

SQL Script

```
CREATE SEQUENCE [PKSequence].[DimCustomerSequenceObject]
AS int
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 2147483647
NO CYCLE
CACHE
GO
```

Uses

PKSequence

[PKSequence].[DimOccupationSequenceObject]

Properties

Property	Value
Owner	PKSequence

SQL Script

```
CREATE SEQUENCE [PKSequence].[DimOccupationSequenceObject]
AS int
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 2147483647
NO CYCLE
CACHE
GO
```

Uses

PKSequence

[PKSequence].[DimProductCategorySequenceObject]

Properties

Property	Value
Owner	PKSequence

SQL Script

```
CREATE SEQUENCE [PKSequence].[DimProductCategorySequenceObject]
AS int
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 2147483647
NO CYCLE
CACHE
GO
```

Uses

PKSequence

[PKSequence].[DimProductSequenceObject]

Properties

Property	Value
Owner	PKSequence

SQL Script

```
CREATE SEQUENCE [PKSequence].[DimProductSequenceObject]
AS int
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 2147483647
NO CYCLE
CACHE
GO
```

Uses

PKSequence

[PKSequence].[DimProductSubcategorySequenceObject]

Properties

Property	Value
Owner	PKSequence

SQL Script

```
CREATE SEQUENCE [PKSequence].[DimProductSubcategorySequenceObject]
AS int
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 2147483647
NO CYCLE
CACHE
GO
```

Uses

PKSequence

[PKSequence].[DimTerritorySequenceObject]

Properties

Property	Value
Owner	PKSequence

SQL Script

```
CREATE SEQUENCE [PKSequence].[DimTerritorySequenceObject]
AS int
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 2147483647
NO CYCLE
CACHE
GO
```

Uses

PKSequence

[PKSequence].[SalesManagersSequenceObject]

Properties

Property	Value
Owner	PKSequence

SQL Script

```
CREATE SEQUENCE [PKSequence].[SalesManagersSequenceObject]
AS int
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 2147483647
NO CYCLE
CACHE
GO
```

Uses

PKSequence

[PKSequence].[UserAuthorizationSequenceObject]

Properties

Property	Value
Owner	PKSequence

SQL Script

```
CREATE SEQUENCE [PKSequence].[UserAuthorizationSequenceObject]
AS int
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 2147483647
NO CYCLE
CACHE
GO
```

Uses

PKSequence

[PKSequence].[WorkflowStepsSequenceObject]

Properties

Property	Value
Owner	PKSequence

SQL Script

```
CREATE SEQUENCE [PKSequence].[WorkflowStepsSequenceObject]
AS int
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 2147483647
NO CYCLE
CACHE
GO
```

Uses

PKSequence

Users

Objects

Name
dbo
EC3\RedgateBackup
EC3\thehitman
guest
rheller

dbo

Properties

Property	Value
Type	SqlUser
Login Name	sa
Default Schema	dbo

Database Level Permissions

Type	Action
CONNECT	Grant

SQL Script

```
GO
```

EC3\RedgateBackup

Properties

Property	Value
Type	WindowsUser
Login Name	EC3\RedgateBackup
Default Schema	dbo

Database Level Permissions

Type	Action
CONNECT	Grant

SQL Script

```
IF NOT EXISTS (SELECT * FROM master.dbo.syslogins WHERE loginname = N'EC3\RedgateBackup')
CREATE LOGIN [EC3\RedgateBackup] FROM WINDOWS
GO
CREATE USER [EC3\RedgateBackup] FOR LOGIN [EC3\RedgateBackup]
GO
```

EC3\thehitman

Properties

Property	Value
Type	WindowsUser
Login Name	EC3\thehitman
Default Schema	dbo

Database Level Permissions

Type	Action
CONNECT	Grant

SQL Script

```
IF NOT EXISTS (SELECT * FROM master.dbo.syslogins WHERE loginname = N'EC3\thehitman')
CREATE LOGIN [EC3\thehitman] FROM WINDOWS
GO
CREATE USER [EC3\thehitman] FOR LOGIN [EC3\thehitman]
GO
```

guest

Properties

Property	Value
Type	SqlUser
Default Schema	guest

SQL Script

```
GO
```

rheller

Properties

Property	Value
Type	SqlUser
Default Schema	dbo

Database Level Permissions

Type	Action
CONNECT	Grant

SQL Script

```
CREATE USER [rheller] WITHOUT LOGIN
GO
```

Database Roles

Objects

Name
db_accessadmin
db_backupoperator
db_datareader
db_datawriter
db_ddladmin
db_denydatareader
db_denydatawriter
db_owner
db_securityadmin
public

db_accessadmin

Properties

Property	Value
Owner	dbo

db_backupoperator

Properties

Property	Value
Owner	dbo

db_datareader

Properties

Property	Value
Owner	dbo

Members

- rheller

SQL Script

```
ALTER ROLE [db_datareader] ADD MEMBER [rheller]
GO
```

Uses

rheller

db_datawriter

Properties

Property	Value
Owner	dbo

db_ddladmin

Properties

Property	Value
Owner	dbo

db_denydatareader

Properties

Property	Value
Owner	dbo

db_denydatawriter

Properties

Property	Value
Owner	dbo

db_owner

Properties

Property	Value

Owner	dbo

Members

- EC3\RedgateBackup
- EC3\thehitman

SQL Script

```
ALTER ROLE [db_owner] ADD MEMBER [EC3\RedgateBackup]
GO
ALTER ROLE [db_owner] ADD MEMBER [EC3\thehitman]
GO
```

Uses

EC3\RedgateBackup
EC3\thehitman

db_securityadmin

Properties

Property	Value
Owner	dbo

public

Properties

Property	Value
Owner	dbo

Schemas

Objects

Name
CH01-01-Dimension
CH01-01-Fact
DbSecurity
FileUpload
PKSequence
Process
Project2
Utils

CH01-01-Dimension

Properties

Property	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA [CH01-01-Dimension]
AUTHORIZATION [dbo]
GO
```

Used By

[CH01-01-Dimension].[DimCustomer]
[CH01-01-Dimension].[DimGender]
[CH01-01-Dimension].[DimMaritalStatus]
[CH01-01-Dimension].[DimOccupation]
[CH01-01-Dimension].[DimOrderDate]
[CH01-01-Dimension].[DimProduct]
[CH01-01-Dimension].[DimProductCategory]
[CH01-01-Dimension].[DimProductSubcategory]
[CH01-01-Dimension].[DimTerritory]
[CH01-01-Dimension].[SalesManagers]

CH01-01-Fact

Properties

Property	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA [CH01-01-Fact]
AUTHORIZATION [dbo]
GO
```

Used By

[CH01-01-Fact].[Data]

DbSecurity

Properties

Property	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA [DbSecurity]
AUTHORIZATION [dbo]
GO
```

Used By

[DbSecurity].[UserAuthorization]

FileUpload

Properties

Property	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA [FileUpload]
AUTHORIZATION [dbo]
GO
```

Used By

[FileUpload].[OriginallyLoadedData]
[FileUpload].[ProductCategories]
[FileUpload].[ProductSubcategories]

PKSequence

Properties

Property	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA [PKSequence]
AUTHORIZATION [dbo]
GO
```

Used By

[PKSequence].[DataSequenceObject]
[PKSequence].[DimCustomerSequenceObject]
[PKSequence].[DimOccupationSequenceObject]
[PKSequence].[DimProductCategorySequenceObject]
[PKSequence].[DimProductSequenceObject]
[PKSequence].[DimProductSubcategorySequenceObject]
[PKSequence].[DimTerritorySequenceObject]
[PKSequence].[SalesManagersSequenceObject]
[PKSequence].[UserAuthorizationSequenceObject]
[PKSequence].[WorkflowStepsSequenceObject]

Process

Properties

Property	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA [Process]
AUTHORIZATION [dbo]
GO
```

Used By

[Process].[WorkflowSteps]
[Process].[usp_TrackWorkFlow]

Project2

Properties

Property	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA [Project2]
AUTHORIZATION [dbo]
GO
```

Used By

[Project2].[AddForeignKeysToStarSchemaData]
[Project2].[DropForeignKeysFromStarSchemaData]
[Project2].[Load_Data]
[Project2].[Load_DimCustomer]
[Project2].[Load_DimGender]
[Project2].[Load_DimMaritalStatus]
[Project2].[Load_DimOccupation]
[Project2].[Load_DimOrderDate]
[Project2].[Load_DimProduct]
[Project2].[Load_DimProductCategory]
[Project2].[Load_DimProductSubcategory]
[Project2].[Load_DimTerritory]
[Project2].[Load_SalesManagers]
[Project2].[LoadStarSchemaData]
[Project2].[ResetSequenceObjects]
[Project2].[ShowTableStatusRowCount]
[Project2].[sp_AddColumns]
[Project2].[sp_AddGroupMembers]
[Project2].[sp_AddPkConstraint]
[Project2].[sp_CreateSO]
[Project2].[sp_CreateTables]
[Project2].[sp_DropColumns]
[Project2].[sp_DropPkConstraint]
[Project2].[sp_InitSetup]
[Project2].[TruncateStarSchemaData]

Utils

Properties

Property	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA [Utils]
AUTHORIZATION [dbo]
GO
```

Used By

[Utils].[ShowServerUserNameAndCurrentDatabase]
[Utils].[uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint]
[Utils].[uvw_FindTablesStorageBytes]
[Utils].[DropProcsInCSCI331FinalProject]
[Utils].[CalculateDataTypeByteStorage]