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	15.0.4249.2
Language	English
Platform	NT x64
Edition	Developer Edition (64-bit)
Engine Edition	3 (Enterprise)
Processors	12
OS Version	6.2 (9200)
Physical Memory	5024
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	Oct 29 2022
Users	7
Database Encryption Enabled	False
Database Encryption Algorithm	None
Database size	845.50 MB
Unallocated space	69.58 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
Log reuse wait	LOG_BACKUP
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	106.00 MB	unlimited	1.00 MB	/var/opt/mssql/data/BIClass.mdf
BIClass_log	Log	739.50 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	10:45:47 PM Tuesday, November 8, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
	CustomerName	varchar(30)	30	NULL allowed	
	userAuthorizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NOT NULL	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NOT NULL	(sysdatetime())
PK C	CustomerKey	int	4	NOT NULL	(NEXT VALUE FOR [PkSequence].[DimCustomerCustomerKey])

Indexes

Key	Name	Key Columns	Unique
PK C	PK__DimCusto__95011E6452BCF41C	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,
[DateAdded] [datetime2] NOT NULL CONSTRAINT [DF_DimCustomer_DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NOT NULL CONSTRAINT [DF_DimCustomer_DateOfLastUpdate]
DEFAULT (sysdatetime()),
[CustomerKey] [int] NOT NULL CONSTRAINT [DFT_SalesManagers_CustomerKey] DEFAULT (NEXT
VALUE FOR [PkSequence].[DimCustomerCustomerKey])
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimCustomer] ADD CONSTRAINT [PK__Dim-
Custo__95011E6452BCF41C] 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]
[Project2].[TruncateStarSchemaData]

[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	10:45:47 PM Tuesday, November 8, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	Gender	char(1)	1	NOT NULL	
	GenderDescription	varchar(6)	6	NOT NULL	
	userAuthorizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NOT NULL	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NOT NULL	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK C	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,
[DateAdded] [datetime2] NOT NULL CONSTRAINT [DF_DimGender_DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NOT NULL CONSTRAINT [DF_DimGender_DateOfLastUpdate]
DEFAULT (sysdatetime())
) 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]
[Project2].[TruncateStarSchemaData]

[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	10:45:47 PM Tuesday, November 8, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	MaritalStatus	char(1)	1	NOT NULL	
	MaritalStatusDescription	varchar(7)	7	NOT NULL	
	userAuthorizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NOT NULL	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NOT NULL	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK C	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,
[DateAdded] [datetime2] NOT NULL CONSTRAINT [DF_DimMaritalStatus_DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NOT NULL CONSTRAINT [DF_DimMaritalStatus_DateOfLast-
Update] DEFAULT (sysdatetime())
) 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]
[Project2].[TruncateStarSchemaData]

[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	10:45:47 PM Tuesday, November 8, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	OccupationKey	int	4	NOT NULL	(NEXT VALUE FOR [Pk-Sequence].[Dim-OccupationOccupation-Key])
	Occupation	varchar(20)	20	NULL allowed	
	userAuthorizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NOT NULL	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NOT NULL	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK C	PK_DimOccupation	OccupationKey	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimOccupation]
(
[OccupationKey] [int] NOT NULL CONSTRAINT [DFT_DimOccupation_OccupationKey] DEFAULT
(NEXT VALUE FOR [PkSequence].[DimOccupationOccupationKey]),
[Occupation] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[userAuthorizationKey] [int] NOT NULL,
[DateAdded] [datetime2] NOT NULL CONSTRAINT [DF_DimOccupation_DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NOT NULL CONSTRAINT [DF_DimOccupation_DateOfLastUpdate]
DEFAULT (sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimOccupation] ADD CONSTRAINT [PK_DimOccupation]
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]
[Project2].[TruncateStarSchemaData]

[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	10:45:47 PM Tuesday, November 8, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	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	
	DateAdded	datetime2	8	NOT NULL	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NOT NULL	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK C	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,
[DateAdded] [datetime2] NOT NULL CONSTRAINT [DF_DimOrderDate_DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NOT NULL CONSTRAINT [DF_DimOrderDate_DateOfLastUpdate]
DEFAULT (sysdatetime())
) 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]
[Project2].[TruncateStarSchemaData]

[CH01-01-Dimension].[DimProduct]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	130
Created	5:39:02 PM Thursday, November 3, 2022
Last Modified	10:45:47 PM Tuesday, November 8, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	ProductKey	int	4	NOT NULL	(NEXT VALUE FOR [PkSequence].[Dim-ProductProductKey])
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	
	DateAdded	datetime2	8	NOT NULL	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NOT NULL	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK C	PK__DimProdu__A15E99B3E27177EF	ProductKey	True

Foreign Keys

Name	Columns
FK_DimProduct_ProductSubcategory	ProductSubcategoryKey->[CH01-01-Dimension].[DimProduct-Subcategory].[ProductSubcategoryKey]

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimProduct]
(
[ProductKey] [int] NOT NULL CONSTRAINT [DFT_DimProduct_ProductKey] DEFAULT (NEXT VALUE
FOR [PkSequence].[DimProductProductKey]),
[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,
[DateAdded] [datetime2] NOT NULL CONSTRAINT [DFT_DimProduct_DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NOT NULL CONSTRAINT [DFT_DimProduct_DateOfLastUpdate]
DEFAULT (sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProduct] ADD CONSTRAINT [PK__DimProdu__-
A15E99B3E27177EF] PRIMARY KEY CLUSTERED ([ProductKey]) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProduct] ADD CONSTRAINT [FK_DimProduct_Product-
Subcategory] FOREIGN KEY ([ProductSubcategoryKey]) REFERENCES [CH01-01-Dimension].[Dim-
ProductSubcategory] ([ProductSubcategoryKey])
GO
```

Uses

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

Used By

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

[CH01-01-Dimension].[DimProductCategory]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	3
Created	5:39:02 PM Thursday, November 3, 2022
Last Modified	10:45:47 PM Tuesday, November 8, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	ProductCategoryKey	int	4	NOT NULL	(NEXT VALUE FOR [PkSequence].[DimProductCategoryProductCategoryKey])
	productCategory	varchar(20)	20	NOT NULL	
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NULL allowed	(sysdatetime())
	userAuthrizationKey	int	4	NOT NULL	

Indexes

Key	Name	Key Columns	Unique
PK C	PK_ProductCategoryKey	ProductCategoryKey	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimProductCategory]
(
[ProductCategoryKey] [int] NOT NULL CONSTRAINT [DFT_DimProductCategory_ProductCategory-
Key] DEFAULT (NEXT VALUE FOR [PkSequence].[DimProductCategoryProductCategoryKey]),
[productCategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[DateAdded] [datetime2] NULL CONSTRAINT [DF_DimProductCatetory_DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF_DimProductCatetory_DateOfLastUpdate]
DEFAULT (sysdatetime()),
[userAuthrizationKey] [int] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProductCategory] ADD CONSTRAINT [PK_ProductCategory-
Key] 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]
[Project2].[TruncateStarSchemaData]

[CH01-01-Dimension].[DimProductSubcategory]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	17
Created	5:43:30 PM Thursday, November 3, 2022
Last Modified	10:45:47 PM Tuesday, November 8, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	ProductSubcategoryKey	int	4	NOT NULL	(NEXT VALUE FOR [PkSequence].[Dim-ProductSubcategory-ProductSubcategory-Key])
FK	productCategoryKey	int	4	NULL allowed	
	productSubcategory	varchar(20)	20	NULL allowed	
	userAuthrizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK C	PK_ProductSubcategoryKey	ProductSubcategoryKey	True

Foreign Keys

Name	Columns
FK_ProductSubcategory_ProductCategory	productCategoryKey->[CH01-01-Dimension].[DimProduct-Category].[ProductCategoryKey]

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimProductSubcategory]
(
[ProductSubcategoryKey] [int] NOT NULL CONSTRAINT [DFT_DimProductSubcategory_Product-
SubcategoryKey] DEFAULT (NEXT VALUE FOR [PkSequence].[DimProductSubcategoryProduct-
```

```
SubcategoryKey]),
[productCategoryKey] [int] NULL,
[productSubcategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[userAuthrizationKey] [int] NOT NULL,
[DateAdded] [datetime2] NULL CONSTRAINT [DF_DimSubProductCatetory_DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF_DimSubProductCatetory_DateOfLast-
Update] DEFAULT (sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] ADD CONSTRAINT [PK_Product-
SubcategoryKey] PRIMARY KEY CLUSTERED ([ProductSubcategoryKey]) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] ADD CONSTRAINT [FK_Product-
Subcategory_ProductCategory] FOREIGN KEY ([productCategoryKey]) REFERENCES [CH01-01-
Dimension].[DimProductCategory] ([ProductCategoryKey])
GO
```

Uses

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

Used By

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

[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	10:45:47 PM Tuesday, November 8, 2022

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	
	DateAdded	datetime2	8	NOT NULL	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NOT NULL	(sysdatetime())
PK C	TerritoryKey	int	4	NOT NULL	(NEXT VALUE FOR [Pk-Sequence].[DimTerritory-TerritoryKey])

Indexes

Key	Name	Key Columns	Unique
PK C	PK__DimTerri__C54B735D813BBCA6	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,
[DateAdded] [datetime2] NOT NULL CONSTRAINT [DF_DimTerritory_DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NOT NULL CONSTRAINT [DF_DimTerritory_DateOfLastUpdate]
DEFAULT (sysdatetime()),
[TerritoryKey] [int] NOT NULL CONSTRAINT [DFT_DimTerritory_TerritoryKey] DEFAULT (NEXT
VALUE FOR [PkSequence].[DimTerritoryTerritoryKey])
```

```
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimTerritory] ADD CONSTRAINT [PK__DimTerri__-
C54B735D813BBCA6] 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]
[Project2].[TruncateStarSchemaData]

[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	10:45:47 PM Tuesday, November 8, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	SalesManagerKey	int	4	NOT NULL	(NEXT VALUE FOR [Pk-Sequence].[DimSales-ManagerSalesManager-Key])
	Category	varchar(20)	20	NULL allowed	
	SalesManager	varchar(50)	50	NULL allowed	
	Office	varchar(50)	50	NULL allowed	
	UserAuthorizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK C	PK_SalesManagers	SalesManagerKey	True

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[SalesManagers]
(
[SalesManagerKey] [int] NOT NULL CONSTRAINT [DFT_SalesManagers_SalesManagerKey] DEFAULT (NEXT VALUE FOR [PkSequence].[DimSalesManagerSalesManagerKey]),
[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,
[DateAdded] [datetime2] NULL CONSTRAINT [DF_SalesManager_DateAdded] DEFAULT (sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF_SalesManager_DateOfLastUpdate]
```

```
DEFAULT (sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[SalesManagers] ADD CONSTRAINT [PK_SalesManagers]
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]
[Project2].[TruncateStarSchemaData]

[CH01-01-Fact].[Data]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	60398
Created	8:59:58 PM Wednesday, December 2, 2015
Last Modified	10:45:47 PM Tuesday, November 8, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	SalesKey	int	4	NOT NULL	
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	
	DateAdded	datetime2	8	NOT NULL	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NOT NULL	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK C	PK_Data	SalesKey	True

Foreign Keys

Name	Columns
FK_Data_DimCustomer	CustomerKey->[CH01-01-Dimension].[DimCustomer].[CustomerKey]
FK_Data_DimGender	Gender->[CH01-01-Dimension].[DimGender].[Gender]
FK_Data_DimMaritalStatus	MaritalStatus->[CH01-01-Dimension].[DimMaritalStatus].[MaritalStatus]
FK_Data_DimOccupation	OccupationKey->[CH01-01-Dimension].[DimOccupation].[OccupationKey]
FK_Data_DimOrderDate	OrderDate->[CH01-01-Dimension].[DimOrderDate].[OrderDate]
FK_Data_DimProduct	ProductKey->[CH01-01-Dimension].[DimProduct].[ProductKey]
FK_Data_DimTerritory	TerritoryKey->[CH01-01-Dimension].[DimTerritory].[TerritoryKey]
FK_Data_SalesManagers	SalesManagerKey->[CH01-01-Dimension].[SalesManagers].[SalesManagerKey]

SQL Script

```
CREATE TABLE [CH01-01-Fact].[Data]
(
[SalesKey] [int] NOT NULL,
[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,
[DateAdded] [datetime2] NOT NULL CONSTRAINT [DF_Data_DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NOT NULL CONSTRAINT [DF_Data_DateOfLastUpdate] DEFAULT
(sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [PK_Data] PRIMARY KEY CLUSTERED
([SalesKey]) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_Data_DimCustomer] FOREIGN KEY
([CustomerKey]) REFERENCES [CH01-01-Dimension].[DimCustomer] ([CustomerKey])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_Data_DimGender] FOREIGN KEY
([Gender]) REFERENCES [CH01-01-Dimension].[DimGender] ([Gender])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_Data_DimMaritalStatus] FOREIGN KEY
([MaritalStatus]) REFERENCES [CH01-01-Dimension].[DimMaritalStatus] ([MaritalStatus])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_Data_DimOccupation] FOREIGN KEY
([OccupationKey]) REFERENCES [CH01-01-Dimension].[DimOccupation] ([OccupationKey])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_Data_DimOrderDate] FOREIGN KEY
([OrderDate]) REFERENCES [CH01-01-Dimension].[DimOrderDate] ([OrderDate])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_Data_DimProduct] FOREIGN KEY
([ProductKey]) REFERENCES [CH01-01-Dimension].[DimProduct] ([ProductKey])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_Data_DimTerritory] FOREIGN KEY
([TerritoryKey]) REFERENCES [CH01-01-Dimension].[DimTerritory] ([TerritoryKey])
GO
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_Data_SalesManagers] FOREIGN KEY
([SalesManagerKey]) 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]
[Project2].[TruncateStarSchemaData]

[DbSecurity].[UserAuthorization]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	1
Created	5:39:02 PM Thursday, November 3, 2022
Last Modified	5:39:02 PM Thursday, November 3, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	UserAuthorizationKey	int	4	NOT NULL	(NEXT VALUE FOR [PkSequence].[User-AuthorizationKey])
	ClassTime	nchar(5)	10	NULL allowed	('10:45')
	IndividualProject	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	('Group2')
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK C	PK__UserAuth__0FEC36CB10B0C8D3	UserAuthorizationKey	True

SQL Script

```
CREATE TABLE [DbSecurity].[UserAuthorization]
(
[UserAuthorizationKey] [int] NOT NULL CONSTRAINT [DFT_UserAuthorization_User-
AuthorizationKey] DEFAULT (NEXT VALUE FOR [PkSequence].[UserAuthorizationKey]),
[ClassTime] [nchar] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NULL CONSTRAINT [DF__User-
Autho__Class__0AF29B96] DEFAULT ('10:45'),
[IndividualProject] [nvarchar] (60) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
CONSTRAINT [DF__UserAutho__Indiv__0BE6BFCF] 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__UserAutho__Group__0CDAE408] DEFAULT ('Group2'),
[DateAdded] [datetime2] NULL CONSTRAINT [DF__UserAutho__DateA__0DCF0841] DEFAULT
(sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [DbSecurity].[UserAuthorization] ADD CONSTRAINT [PK__User-
Auth__0FEC36CB10B0C8D3] PRIMARY KEY CLUSTERED ([UserAuthorizationKey]) ON [PRIMARY]
GO
```

Uses

DbSecurity

[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
Row Count (~)	13
Created	5:39:02 PM Thursday, November 3, 2022
Last Modified	5:39:02 PM Thursday, November 3, 2022

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK	WorkFlowStepKey	int	4	NOT NULL	(NEXT VALUE FOR [Pk-Sequence].[WorkFlowStep-Key])
	WorkFlowStepDescription	nvarchar(100)	200	NOT NULL	
	WorkFlowStepTableRowCount	int	4	NULL allowed	((0))
	StartingDateDate	datetime2	8	NULL allowed	(sysdatetime())
	EndingDateTime	datetime2	8	NULL allowed	(sysdatetime())
	ClassTime	char(5)	5	NULL allowed	('10:45')
	UserAuthorizationKey	int	4	NOT NULL	

Indexes

Key	Name	Key Columns	Unique
PK	PK_WorkFlowSteps	WorkFlowStepKey	True

SQL Script

```
CREATE TABLE [Process].[WorkflowSteps]
(
[WorkFlowStepKey] [int] NOT NULL CONSTRAINT [DFT_WorkflowSteps_WorkflowStepKey] DEFAULT (NEXT VALUE FOR [PkSequence].[WorkFlowStepKey]),
[WorkFlowStepDescription] [nvarchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[WorkFlowStepTableRowCount] [int] NULL CONSTRAINT [DF__WorkflowS__WorkF__119F9925] DEFAULT ((0)),
[StartingDateDate] [datetime2] NULL CONSTRAINT [DF__WorkflowS__Start__1293BD5E] DEFAULT (sysdatetime()),
[EndingDateTime] [datetime2] NULL CONSTRAINT [DF__WorkflowS__Endin__1387E197] DEFAULT
```

```
(sysdatetime()),
[ClassTime] [char] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NULL CONSTRAINT [DF__-
WorkflowS__Class__147C05D0] DEFAULT ('10:45'),
[UserAuthorizationKey] [int] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [Process].[WorkflowSteps] ADD CONSTRAINT [PK_WorkFlowSteps] PRIMARY KEY
CLUSTERED ([WorkFlowStepKey]) ON [PRIMARY]
GO
```

Uses

Process

Used By

[Process].[usp_TrackWorkFlows]
[Project2].[TruncateStarSchemaData]

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('(', Data-
Type, 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('(', Data-
Type, 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_TrackWorkFlows
Project2.AddForeignKeysToStarSchemaData
Project2.CreateSequences
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.preparation
Project2.ShowTableStatusRowCount
Project2.TruncateStarSchemaData
Utils.DropProcsInCSCI331FinalProject

[Process].[usp_TrackWorkFlows]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@WorkFlowDescription	nvarchar(100)	200
@WorkFlowStepTableRowCount	int	4
@StartingDateTime	datetime2	8
@EndingDateTime	datetime2	8
@UserAuthorizationKey	int	4

SQL Script

```
-- ============================================
-- Author: Jasmine Kim
-- Create date: 10/30/2022
-- Description:    Keep track of the WorkFlow
-- ============================================
CREATE procedure [Process].[usp_TrackWorkFlows]
    @WorkFlowDescription NVARCHAR(100),
    @WorkFlowStepTableRowCount INT,
    @StartingDateTime DATETIME2,
    @EndingDateTime DATETIME2,
    @UserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;

    INSERT INTO process.WorkflowSteps
    (
        WorkFlowStepKey,
        WorkFlowStepDescription,
        WorkFlowStepTableRowCount,
        StartingDateDate,
        EndingDateTime,
        UserAuthorizationKey
    )
    VALUES
```

```
    (   NEXT VALUE FOR PkSequence.WorkFlowStepKey,       -- WorkFlowStepKey - int
        @WorkFlowDescription,     -- WorkFlowStepDescription - nvarchar(100)
        @WorkFlowStepTableRowCount, -- WorkFlowStepTableRowCount - int
        @StartingDateTime, -- StartingDateDate - datetime2(7)
        @EndingDateTime, -- EndingDateTime - datetime2(7)
        @UserAuthorizationKey -- UserAuthorizationKey - int
    )

END;

GO
```

Uses

[Process].[WorkflowSteps]
Process
[PkSequence].[WorkFlowStepKey]

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].[TruncateStarSchemaData]

[Project2].[AddForeignKeysToStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
-- =============================================
-- Author:        Jasmine Kim
-- Create date: 11/2/2022
-- Description:    Adding Foreign Keys
-- =============================================
CREATE PROCEDURE [Project2].[AddForeignKeysToStarSchemaData]
@GroupMemberUserAuthorizationKey AS INT
AS
BEGIN
    SET NOCOUNT ON;
    -- interfering with SELECT statements.
    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Adding Foreign Keys';
    DECLARE @WorkFlowStepTableRowCount INT =0;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;


    ALTER TABLE [CH01-01-Dimension].DimProduct
        ADD CONSTRAINT FK_DimProduct_ProductSubcategory
            FOREIGN KEY (ProductSubcategoryKey) REFERENCES [CH01-01-Dimension].Dim-
ProductSubcategory (ProductSubcategoryKey);

    ALTER TABLE [CH01-01-Dimension].DimProductSubcategory
        ADD CONSTRAINT FK_ProductSubcategory_ProductCategory
            FOREIGN KEY    (productCategoryKey) REFERENCES [CH01-01-Dimension].Dim-
ProductCategory (ProductCategoryKey);

    ALTER TABLE [CH01-01-Fact].DATA
        ADD CONSTRAINT FK_Data_DimCustomer
            FOREIGN KEY (CustomerKey) REFERENCES [CH01-01-Dimension].DimCustomer
(CustomerKey)
```

```
    ALTER TABLE [CH01-01-Fact].Data
        ADD CONSTRAINT FK_Data_DimGender
            FOREIGN KEY (Gender) REFERENCES [CH01-01-Dimension].DimGender (Gender)

    ALTER TABLE [CH01-01-Fact].Data
        ADD CONSTRAINT FK_Data_DimMaritalStatus
            FOREIGN KEY (MaritalStatus) REFERENCES [CH01-01-Dimension].DimMaritalStatus
(MaritalStatus)

    ALTER TABLE [CH01-01-Fact].Data
        ADD CONSTRAINT FK_Data_DimProduct
            FOREIGN KEY (ProductKey) REFERENCES [CH01-01-Dimension].DimProduct(Product-
Key)

    ALTER TABLE [CH01-01-Fact].Data
        ADD CONSTRAINT FK_Data_DimOccupation
            FOREIGN KEY (OccupationKey) REFERENCES [CH01-01-Dimension].DimOccupation
(OccupationKey)

    ALTER TABLE [CH01-01-Fact].Data
        ADD CONSTRAINT FK_Data_SalesManagers
            FOREIGN KEY (SalesManagerKey) REFERENCES [CH01-01-Dimension].SalesManagers
(SalesManagerKey)

    ALTER TABLE [CH01-01-Fact].Data
        ADD CONSTRAINT FK_Data_DimOrderDate
            FOREIGN KEY (OrderDate) REFERENCES [CH01-01-Dimension].DimOrderDate (Order-
Date)

    ALTER TABLE [CH01-01-Fact].Data
        ADD CONSTRAINT FK_Data_DimTerritory
            FOREIGN KEY (TerritoryKey) REFERENCES [CH01-01-Dimension].Dim-
Territory(TerritoryKey)









/*

        ALTER TABLE [Process].[WorkflowSteps]  WITH CHECK ADD  CONSTRAINT [FK_Workflow-
Steps_UserAuthorization] FOREIGN KEY([UserAuthorizationKey])
    REFERENCES [DbSecurity].[UserAuthorization] ([UserAuthorizationKey])
    GO

    ALTER TABLE [Process].[WorkflowSteps] CHECK CONSTRAINT [FK_WorkflowSteps_User-
Authorization]
    GO
*/



    SELECT @EndingDateTime = SYSDATETIME();
```

```
    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberUserAuthorizationKey;
PRINT 'Foreign Keys Added back'
END;
GO
```

Uses

[Process].[usp_TrackWorkFlows]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[CreateSequences]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- =============================================
-- Author:        Jasmine Kim
-- Create date: 11/2/2022
-- Description:    Creates Sequences
-- =============================================

CREATE PROCEDURE [Project2].[CreateSequences]

AS
BEGIN

    DROP SEQUENCE IF EXISTS PkSequence.DimProductProductKey
    CREATE SEQUENCE PkSequence.DimProductProductKey
        AS INT
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        CACHE


    DROP SEQUENCE IF EXISTS PkSequence.DimProductSubcategoryProductSubcategoryKey
    CREATE SEQUENCE PkSequence.DimProductSubcategoryProductSubcategoryKey
        AS INT
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        CACHE



    DROP SEQUENCE IF EXISTS PkSequence.DimProductCategoryProductCategoryKey
    CREATE SEQUENCE PkSequence.DimProductCategoryProductCategoryKey
        AS INT
        START WITH 1
        INCREMENT BY 1
```

```
        MINVALUE 1
        MAXVALUE 2147483647
        CACHE


    DROP SEQUENCE IF EXISTS PkSequence.DimOccupationOccupationKey
    CREATE SEQUENCE PkSequence.DimOccupationOccupationKey
        AS INT
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        CACHE


    DROP SEQUENCE IF EXISTS PkSequence.DimTerritoryTerritoryKey
    CREATE SEQUENCE PkSequence.DimTerritoryTerritoryKey
        AS INT
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        CACHE


    DROP SEQUENCE IF EXISTS PkSequence.DimCustomerCustomerKey
    CREATE SEQUENCE PkSequence.DimCustomerCustomerKey
        AS INT
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        CACHE


    DROP SEQUENCE IF EXISTS PkSequence.DataSalesKey
    CREATE SEQUENCE PkSequence.DataSalesKey
        AS INT
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        CACHE


    DROP SEQUENCE IF EXISTS PkSequence.DimManagerSalesManagerSalesKey
    CREATE SEQUENCE PkSequence.DimManagerSalesManagerSalesKey
        AS INT
        START WITH 1
        INCREMENT BY 1
        MINVALUE 1
        MAXVALUE 2147483647
        CACHE
```

```
    DROP SEQUENCE IF EXISTS PkSequence.WorkFlowStepKey
    CREATE SEQUENCE PkSequence.WorkFlowStepKey
    AS INT
    START WITH 1
    INCREMENT BY 1
    MINVALUE 1
    MAXVALUE 2147483647
    CACHE


    DROP SEQUENCE IF EXISTS  PkSequence.UserAuthorizationKey
    CREATE SEQUENCE PkSequence.UserAuthorizationKey
    AS INT
    START WITH 1
    INCREMENT BY 1
    MINVALUE 1
    MAXVALUE 2147483647
    CACHE

END;

 EXEC [Project2].[CreateSequences]


GO
```

Uses

Project2

[Project2].[DropForeignKeysFromStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
-- ============================================
-- Author:        Jasmine Kim
-- Create date: 10/30/2022
-- Description:    Drop the Foreign Keys From the Star Schema
-- ============================================
CREATE PROCEDURE [Project2].[DropForeignKeysFromStarSchemaData]
    @GroupMemberUserAuthorizationKey INT
AS
BEGIN
    SET NOCOUNT ON;


    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Dropping All Foreign Keys';
    DECLARE @WorkFlowStepTableRowCount INT= 0;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;


    ALTER TABLE [CH01-01-Fact].Data
        DROP CONSTRAINT FK_Data_DimCustomer;

    ALTER TABLE [CH01-01-Fact].Data
        DROP CONSTRAINT FK_Data_DimGender;

    ALTER TABLE [CH01-01-Fact].Data
        DROP CONSTRAINT FK_Data_DimMaritalStatus;

    ALTER TABLE [CH01-01-Fact].Data
        DROP CONSTRAINT FK_Data_DimProduct;
```

```
    ALTER TABLE [CH01-01-Fact].Data
        DROP CONSTRAINT FK_Data_DimOccupation;

    ALTER TABLE [CH01-01-Fact].Data
        DROP CONSTRAINT FK_Data_SalesManagers;

    ALTER TABLE [CH01-01-Fact].Data
        DROP CONSTRAINT FK_Data_DimOrderDate;

    ALTER TABLE [CH01-01-Fact].Data
        DROP CONSTRAINT FK_Data_DimTerritory;

    ALTER TABLE [CH01-01-Dimension].DimProduct
        DROP CONSTRAINT FK_DimProduct_ProductSubcategory;

    ALTER TABLE [CH01-01-Dimension].DimProductSubcategory
        DROP CONSTRAINT FK_ProductSubcategory_ProductCategory;

    PRINT 'All foreign keys dropped'

    SELECT @EndingDateTime = SYSDATETIME();

    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberUserAuthorizationKey;

end
GO
```

Uses

[Process].[usp_TrackWorkFlows]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[Load_Data]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
-- =============================================
-- Author:        Jasmine Kim
-- Create date: 11/5/2022
-- Description:    Loading Data Table
--
-- @GroupMemberUserAuthorizationKey is the
-- UserAuthorizationKey of the Group Member who completed
-- this stored procedure.
--
-- =============================================
CREATE PROCEDURE [Project2].[Load_Data]
    @GroupMemberUserAuthorizationKey INT
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading Data Table';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;
    /****** Script for SelectTopNRows command from SSMS  ******/

    INSERT INTO [CH01-01-Fact].Data
    (
        SalesKey,
        SalesManagerKey,
        OccupationKey,
        TerritoryKey,
        ProductKey,
        CustomerKey,
```

```
        ProductCategory,
        SalesManager,
        ProductSubcategory,
        ProductCode,
        ProductName,
        Color,
        ModelName,
        OrderQuantity,
        UnitPrice,
        ProductStandardCost,
        SalesAmount,
        OrderDate,
        MonthName,
        MonthNumber,
        Year,
        CustomerName,
        MaritalStatus,
        Gender,
        Education,
        Occupation,
        TerritoryRegion,
        TerritoryCountry,
        TerritoryGroup,
        userAuthorizationKey
    )
    SELECT DISTINCT
       old.SalesKey,
       sm.SalesManagerKey,    -- SalesManagerKey - int
        do.OccupationKey,    -- OccupationKey - int
        dt.TerritoryKey,    -- TerritoryKey - int
        dp.ProductKey,    -- ProductKey - int
        dc.CustomerKey,    -- CustomerKey - int
        old.ProductCategory,    -- ProductCategory - varchar(20)
        old.SalesManager,    -- SalesManager - varchar(20)
        old.ProductSubcategory,    -- ProductSubcategory - varchar(20)
        old.ProductCode,    -- ProductCode - varchar(10)
        old.ProductName,    -- ProductName - varchar(40)
        old.Color,    -- Color - varchar(10)
        old.ModelName,    -- ModelName - varchar(30)
        old.OrderQuantity,    -- OrderQuantity - int
        old.UnitPrice,    -- UnitPrice - money
        old.ProductStandardCost,    -- ProductStandardCost - money
        old.SalesAmount,    -- SalesAmount - money
        old.OrderDate,    -- OrderDate - date
        old.MonthName,    -- MonthName - varchar(10)
        old.MonthNumber,    -- MonthNumber - int
        old.year,    -- Year - int
        old.CustomerName,    -- CustomerName - varchar(30)
        old.MaritalStatus,    -- MaritalStatus - char(1)
        old.Gender,    -- Gender - char(1)
        old.Education,    -- Education - varchar(20)
        old.Occupation,    -- Occupation - varchar(20)
        old.TerritoryRegion,    -- TerritoryRegion - varchar(20)
```



```
        old.TerritoryCountry,    -- TerritoryCountry - varchar(20)
        old.TerritoryGroup,    -- TerritoryGroup - varchar(20)
        @GroupMemberUserAuthorizationKey       -- userAuthorizationKey - int

       FROM FileUpload.OriginallyLoadedData AS old
        INNER JOIN [CH01-01-Dimension].SalesManagers AS sm
            ON sm.SalesManager = old.SalesManager AND
               sm.Category = old.ProductCategory
        INNER JOIN [CH01-01-Dimension].DimOccupation AS do
            ON do.Occupation = old.Occupation
        INNER JOIN [CH01-01-Dimension].DimTerritory AS dt
            ON dt.TerritoryCountry = old.TerritoryCountry AND
               dt.TerritoryGroup = old.TerritoryGroup 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

    SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Fact].Data;
    SELECT @EndingDateTime = SYSDATETIME();

    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberUserAuthorizationKey;
    PRINT 'Loaded Data Table'

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_TrackWorkFlows]
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)
@GroupMemberAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author:        Jasmine Kim
-- Create date: 11/5/2022
-- Description:    Loading DimCustomer Table
-- =============================================
CREATE PROCEDURE [Project2].[Load_DimCustomer]
@GroupMemberAuthorizationKey AS INT
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading DimCustomer Table';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;

    INSERT INTO [CH01-01-Dimension].DimCustomer
    (
        CustomerName,
        userAuthorizationKey
    )
    SELECT DISTINCT
        old.CustomerName,
        @GroupMemberAuthorizationKey
    FROM FileUpload.OriginallyLoadedData AS old

    SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Dimension].DimCustomer;
    SELECT @EndingDateTime = SYSDATETIME();

    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
```

```
@StartingDateTime, @EndingDateTime, @GroupMemberAuthorizationKey;
PRINT 'Loaded DimCustomer Table'

END
GO
```

Uses

[CH01-01-Dimension].[DimCustomer]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlows]
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)
@GroupMemberAuthorizationKey	int	4

SQL Script

```
-- ============================================
-- Author:        Jasmine Kim
-- Create date: 11/5/2022
-- Description:    Load DimGender Table
-- ============================================
CREATE PROCEDURE [Project2].[Load_DimGender]
@GroupMemberAuthorizationKey AS INT
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading DimGender Table';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;

    INSERT INTO [CH01-01-Dimension].DimGender
    (
        Gender,
        GenderDescription,
        UserAuthorizationKey
    )
    SELECT DISTINCT
        old.Gender, -- Gender - char(1)
        GenderDescription= CASE
                               WHEN old.Gender ='M' THEN 'Male'
                               WHEN old.Gender = 'F' THEN 'Female'
                               ELSE 'Unknown'
                               End,
```

```
        @GroupMemberAuthorizationKey
    FROM FileUpload.OriginallyLoadedData AS old



    SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Dimension].DimGender;
    SELECT @EndingDateTime = SYSDATETIME();
    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberAuthorizationKey;
PRINT 'Loaded DimGender Table'
END;
GO
```

Uses

[CH01-01-Dimension].[DimGender]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlows]
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)
@GroupMemberAuthorizationKey	int	4

SQL Script

```
-- ============================================
-- Author:        Jasmine Kim
-- Create date: 11/5/2022
-- Description:    Load Marital Status Table
-- ============================================
CREATE PROCEDURE [Project2].[Load_DimMaritalStatus]
@GroupMemberAuthorizationKey AS INT
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading MaritalStatus Table';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;

    INSERT INTO [CH01-01-Dimension].DimMaritalStatus
    (
        MaritalStatus,
        MaritalStatusDescription,
        UserAuthorizationKey
    )
    SELECT DISTINCT
       old.MaritalStatus, -- MaritalStatus - char(1)
       MaritalStatusDescription = CASE
                                      WHEN old.MaritalStatus = 'M' THEN 'Married'
                                      WHEN old.MaritalStatus = 'S' THEN 'Single'
                                      ELSE 'Unknown'
                                      END
       ,@GroupMemberAuthorizationKey
```

```
    FROM FileUpload.OriginallyLoadedData AS old


    SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Dimension].DimMarital-
Status;
    SELECT @EndingDateTime = SYSDATETIME();


    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberAuthorizationKey;
PRINT 'Loaded MaritalStatus Table'


END
GO
```

Uses

[CH01-01-Dimension].[DimMaritalStatus]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlows]
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)
@GroupMemberAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author:        Jasmine Kim
-- Create date: 11/5/2022
-- Description:    Load DimOccupation Table
-- =============================================
CREATE PROCEDURE [Project2].[Load_DimOccupation]
@GroupMemberAuthorizationKey AS INT
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading DimOccupation Table';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;

    INSERT INTO [CH01-01-Dimension].DimOccupation
    (
        Occupation,
        userAuthorizationKey
    )
    SELECT DISTINCT
        old.occupation,
        @GroupMemberAuthorizationKey
    FROM FileUpload.OriginallyLoadedData AS old


    SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Dimension].Dim-
Occupation;
```

```
    SELECT @EndingDateTime = SYSDATETIME();

    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberAuthorizationKey;

PRINT 'Loaded DimOccupation Table'

END
GO
```

Uses

[CH01-01-Dimension].[DimOccupation]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlows]
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)
@GroupMemberAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author:        Jasmine Kim
-- Create date: 11/5/2022
-- Description:    Loading DimOrderDate Table
-- =============================================
CREATE PROCEDURE [Project2].[Load_DimOrderDate]
@GroupMemberAuthorizationKey AS INT
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading DimOrderDate Table';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;

    INSERT INTO [CH01-01-Dimension].DimOrderDate
    (
        OrderDate,
        MonthName,
        MonthNumber,
        Year,
        userAuthorizationKey
    )
    SELECT DISTINCT
        old.OrderDate,
        DATENAME(MONTH, old.OrderDate),
        DATEPART(MONTH, old.OrderDate),
        year (old.orderDate),
```

```
        @GroupMemberAuthorizationKey


    FROM FileUpload.OriginallyLoadedData AS old


    SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Dimension].DimOrder-
Date;
    SELECT @EndingDateTime = SYSDATETIME();


    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberAuthorizationKey;


PRINT 'Loaded DimOrderDate Table'


END
GO
```

Uses

[CH01-01-Dimension].[DimOrderDate]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlows]
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)
@GroupMemberUserAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author:        Jasmine Kim
-- Create date: 11/02/2022
-- Description:    Load DimProduct
-- =============================================
CREATE PROCEDURE [Project2].[Load_DimProduct]
    @GroupMemberUserAuthorizationKey AS INT
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.

    SET NOCOUNT ON;
    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading Product table';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;

    INSERT INTO [CH01-01-Dimension].DimProduct
    (
        ProductSubcategoryKey,
        ProductCategory,
        ProductSubcategory,
        ProductCode,
        ProductName,
        Color,
        ModelName,
        userAuthorizationKey

    )
    SELECT
```

```
        DISTINCT ps.ProductSubcategoryKey,
        old.ProductCategory, -- ProductCategory - varchar(20)
        old.ProductSubcategory, -- ProductSubcategory - varchar(20)
        old.productCode, -- ProductCode - varchar(10)
        old.ProductName, -- ProductName - varchar(40)
        old.Color, -- Color - varchar(10)
        old.ModelName,  -- ModelName - varchar(30)
        @GroupMemberUserAuthorizationKey

    FROM FileUpload.OriginallyLoadedData AS old
        INNER JOIN [CH01-01-Dimension].DimProductSubcategory AS ps
            ON ps.ProductSubcategory = old.ProductSubcategory

    SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Dimension].DimProduct-
Category;
    SELECT @EndingDateTime = SYSDATETIME();



    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberUserAuthorizationKey;
    PRINT 'Product table loaded.'

END




GO
```

Uses

[CH01-01-Dimension].[DimProduct]
[CH01-01-Dimension].[DimProductCategory]
[CH01-01-Dimension].[DimProductSubcategory]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlows]
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)
@GroupMemberUserAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author:        Jasmine Kim
-- Create date: 10/30/22
-- Description:    Load ProductCategory Table
-- =============================================
CREATE PROCEDURE [Project2].[Load_DimProductCategory]
    @GroupMemberUserAuthorizationKey AS INT
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;


    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading DimProductCategory';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;

    INSERT INTO [CH01-01-Dimension].DimProductCategory
    (
        productCategory,
        userAuthrizationKey
    )
    SELECT DISTINCT
        old.ProductCategory,      -- productCatetory - varchar(20)
        @GroupMemberUserAuthorizationKey       -- userAuthrizationKey - int

    FROM FileUpload.OriginallyLoadedData AS old

    SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Dimension].DimProduct-
```

```
Category;
    SELECT @EndingDateTime = SYSDATETIME();

    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberUserAuthorizationKey;

END


GO
```

Uses

[CH01-01-Dimension].[DimProductCategory]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlows]
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)
@GroupMemberUserAuthorizationKey	int	4

SQL Script

```
-- ============================================
-- Author:        Jasmine Kim
-- Create date: 10/30/2022
-- Description:    Load Product Subcategory Table
-- ============================================
CREATE PROCEDURE [Project2].[Load_DimProductSubcategory]
    @GroupMemberUserAuthorizationKey AS INT
AS
BEGIN
    SET NOCOUNT ON; --added to prevent extra result sets from
    -- interfering with SELECT statements.
    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading DimProductSubcategory';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;


    INSERT INTO [CH01-01-Dimension].DimProductSubcategory
    (
        ProductSubcategory,
        productCategoryKey,
        userAuthrizationKey

    )
    SELECT DISTINCT
        old.ProductSubcategory,      -- ProductSubcategory - varchar(20)
        pc.productCategoryKey,
        @GroupMemberUserAuthorizationKey       -- userAuthrizationKey - int
     FROM FileUpload.OriginallyLoadedData AS old
        INNER JOIN [CH01-01-Dimension].DimProductCategory AS pc
            ON pc.productCategory = old.ProductCategory;
```

```
     SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Dimension].DimProduct-
Subcategory;
    SELECT @EndingDateTime = SYSDATETIME();


     EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberUserAuthorizationKey;


    PRINT 'ProductSubcategory Table loaded'
END;
GO
```

Uses

[CH01-01-Dimension].[DimProductCategory]
[CH01-01-Dimension].[DimProductSubcategory]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlows]
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)
@GroupMemberAuthorizationKey	int	4

SQL Script

```
-- ============================================
-- Author:        Jasmine Kim
-- Create date: 11/5/2022
-- Description:    Loading DimTerritory Table
-- ============================================
CREATE PROCEDURE [Project2].[Load_DimTerritory]
@GroupMemberAuthorizationKey AS INT
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading DimTerritory Table';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;

    INSERT INTO [CH01-01-Dimension].DimTerritory
    (
        TerritoryGroup,
        TerritoryCountry,
        TerritoryRegion,
        userAuthorizationKey

    )
    SELECT DISTINCT
        old.TerritoryGroup,
        old.TerritoryCountry,
        old.TerritoryRegion,
        @GroupMemberAuthorizationKey
```

```
    FROM FileUpload.OriginallyLoadedData AS old


    SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Dimension].Dim-
Territory;
    SELECT @EndingDateTime = SYSDATETIME();


    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberAuthorizationKey;
    PRINT 'Loaded DimTerritory Table'


    END
GO
```

Uses

[CH01-01-Dimension].[DimTerritory]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlows]
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)
@GroupMemberUserAuthorizationKey	int	4

SQL Script

```
-- =============================================
-- Author:        Jasmine Kim
-- Create date: 11/2/2022
-- Description:    Load SalesManager Table
-- =============================================
CREATE PROCEDURE [Project2].[Load_SalesManagers]
@GroupMemberUserAuthorizationKey AS INT
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Loading SalesManagers Table';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;

    INSERT INTO [CH01-01-Dimension].SalesManagers
    (
        Category,
        SalesManager,
        Office,
        UserAuthorizationKey
    )
    SELECT DISTINCT
        old.ProductCategory,
        old.SalesManager,
        Office = CASE
                    WHEN old.SalesManager LIKE 'Marco%' THEN
```

```
                        'Redmond'
                    WHEN old.SalesManager LIKE 'Alberto%' THEN
                        'Seattle'
                    WHEN old.SalesManager LIKE 'Maurizio%' THEN
                        'Redmond'
                    ELSE
                        'Seattle'
                END,
        @GroupMemberUserAuthorizationKey
    FROM FileUpload.OriginallyLoadedData AS old
    --ORDER BY old.SalesManagerKey;

    SELECT @WorkFlowStepTableRowCount =  COUNT(*) FROM [CH01-01-Dimension].Sales-
Managers;
    SELECT @EndingDateTime = SYSDATETIME();

    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberUserAuthorizationKey;

    PRINT 'Loaded SalesManager Table'
END
GO
```

Uses

[CH01-01-Dimension].[SalesManagers]
[FileUpload].[OriginallyLoadedData]
[Process].[usp_TrackWorkFlows]
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] @GroupMemberUserAuthorization-
Key = 1;
    --
    --    Check row count before truncation
    EXEC    [Project2].[ShowTableStatusRowCount]
        --@GroupMemberUserAuthorizationKey = 1  -- Change -1 to the appropriate User-
AuthorizationKey
        @TableStatus = N'''Pre-truncate of tables'''
    --
    --    Always truncate the Star Schema Data
    --
    EXEC [Project2].[TruncateStarSchemaData] @GroupMemberUserAuthorizationKey = 1;
    --
    --    Load the star schema
    --
    EXEC  [Project2].[Load_DimProductCategory] @GroupMemberUserAuthorizationKey = 1;  -
- Change -1 to the appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimProductSubcategory] @GroupMemberUserAuthorizationKey = 1;
-- Change -1 to the appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimProduct] @GroupMemberUserAuthorizationKey = 1;  -- Change
-1 to the appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_SalesManagers] @GroupMemberUserAuthorizationKey = 1;  --
Change -1 to the appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimGender] @GroupMemberUserAuthorizationKey = 1;  -- Change -1
to the appropriate UserAuthorizationKey
```

```
    EXEC  [Project2].[Load_DimMaritalStatus] @GroupMemberAuthorizationKey = 1;  --
Change -1 to the appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimOccupation] @GroupMemberAuthorizationKey = 1;  -- Change
-1 to the appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimOrderDate] @GroupMemberAuthorizationKey = 1;  -- Change -
1 to the appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimTerritory] @GroupMemberAuthorizationKey = 1;  -- Change -
1 to the appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_DimCustomer] @GroupMemberAuthorizationKey = 1;  -- Change -1
to the appropriate UserAuthorizationKey
    EXEC  [Project2].[Load_Data] @GroupMemberUserAuthorizationKey = 1;  -- 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]
        --@GroupMemberUserAuthorizationKey = -1,  -- Change -1 to the appropriate User-
AuthorizationKey
        @TableStatus = N'''Row Count after loading the star schema'''
    --
   EXEC [Project2].[AddForeignKeysToStarSchemaData] @GroupMemberUserAuthorizationKey =
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].[preparation]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- =============================================
-- Author:        Jasmine Kim
-- Create date: 11/2/22
-- Description:    Creates ProductCategory, ProductSubcategory, WorflowSteps, User-Authorization tables
-- =============================================
CREATE PROCEDURE [Project2].[preparation]

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

    --ProductCategory
    DROP TABLE IF EXISTS [CH01-01-Dimension].[DimProductCategory]
    CREATE TABLE [CH01-01-Dimension].[DimProductCategory](
    [ProductCategoryKey] [INT] NOT NULL,
    [productCategory] [VARCHAR](20) NOT NULL,
    [DateAdded] [DATETIME2](7) NULL,
    [DateOfLastUpdate] [DATETIME2](7) NULL,
    [userAuthrizationKey] [INT] NOT NULL,
     CONSTRAINT [PK_ProductCategoryKey] PRIMARY KEY CLUSTERED
    (
        [ProductCategoryKey] ASC
    )WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_-ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
    ) ON [PRIMARY]

    ALTER TABLE [CH01-01-Dimension].[DimProductCategory]
    ADD CONSTRAINT DFT_DimProductCategory_ProductCategoryKey
        DEFAULT (NEXT VALUE FOR PkSequence.DimProductCategoryProductCategoryKey)
        FOR ProductCategoryKey;

    ALTER TABLE [CH01-01-Dimension].[DimProductCategory] ADD  CONSTRAINT [DF_DimProduct-Catetory_DateAdded]  DEFAULT (SYSDATETIME()) FOR [DateAdded]
```

```
    ALTER TABLE [CH01-01-Dimension].[DimProductCategory] ADD  CONSTRAINT [DF_DimProduct-
Catetory_DateOfLastUpdate]  DEFAULT (SYSDATETIME()) FOR [DateOfLastUpdate]



    --ProductSubcategory table
    DROP TABLE IF EXISTS [CH01-01-Dimension].[DimProductSubcategory];
    CREATE TABLE [CH01-01-Dimension].[DimProductSubcategory](
    [ProductSubcategoryKey] [INT] NOT NULL,
    productCategoryKey INT NULL,
    productSubcategory VARCHAR (20) NULL,
    [userAuthrizationKey] [INT] NOT NULL,
    [DateAdded] [DATETIME2](7) NULL,
    [DateOfLastUpdate] [DATETIME2](7) NULL,
     CONSTRAINT [PK_ProductSubcategoryKey] PRIMARY KEY CLUSTERED
    (
        [ProductSubcategoryKey] ASC
    )WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_-
ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
    ) ON [PRIMARY]

    ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory]
    ADD CONSTRAINT DFT_DimProductSubcategory_ProductSubcategoryKey
        DEFAULT (NEXT VALUE FOR PkSequence.DimProductSubcategoryProductSubcategoryKey)
        FOR ProductSubcategoryKey;

    ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] ADD  CONSTRAINT [DF_DimSub-
ProductCatetory_DateAdded]  DEFAULT (SYSDATETIME()) FOR [DateAdded]



    ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] ADD  CONSTRAINT [DF_DimSub-
ProductCatetory_DateOfLastUpdate]  DEFAULT (SYSDATETIME()) FOR [DateOfLastUpdate]



    --UserAuthorization
    DROP TABLE IF EXISTS DbSecurity.UserAuthorization
    CREATE TABLE [DbSecurity].[UserAuthorization](
    [UserAuthorizationKey] [INT] NOT NULL,
    [ClassTime] [NCHAR](5) NULL,
    [IndividualProject] [NVARCHAR](60) NULL,
    [GroupMemberLastName] [NVARCHAR](35) NOT NULL,
    [GroupMemberFirstName] [NVARCHAR](25) NOT NULL,
    [GroupName] [NVARCHAR](20) NOT NULL,
    [DateAdded] [DATETIME2](7) NULL,
    PRIMARY KEY CLUSTERED
    (
        [UserAuthorizationKey] ASC
    )WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_-
ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
    ) ON [PRIMARY]

    ALTER TABLE DbSecurity.UserAuthorization
    ADD CONSTRAINT DFT_UserAuthorization_UserAuthorizationKey
        DEFAULT (NEXT VALUE FOR PkSequence.UserAuthorizationKey)
        FOR UserAuthorizationKey;
```

```
    ALTER TABLE [DbSecurity].[UserAuthorization] ADD  DEFAULT ('10:45') FOR [ClassTime]


    ALTER TABLE [DbSecurity].[UserAuthorization] ADD  DEFAULT ('PROJECT 2 RECREATE THE
BICLASS DATABASE STAR SCHEMA') FOR [IndividualProject]


    ALTER TABLE [DbSecurity].[UserAuthorization] ADD  DEFAULT ('Group2') FOR [Group-
Name]


    ALTER TABLE [DbSecurity].[UserAuthorization] ADD  DEFAULT (SYSDATETIME()) FOR [Date-
Added]


    --Workflow Table
    DROP TABLE IF EXISTS process.WorkflowSteps
    CREATE TABLE [Process].[WorkflowSteps](
    [WorkFlowStepKey] [INT] NOT NULL,
    [WorkFlowStepDescription] [NVARCHAR](100) NOT NULL,
    [WorkFlowStepTableRowCount] [INT] NULL,
    [StartingDateDate] [DATETIME2](7) NULL,
    [EndingDateTime] [DATETIME2](7) NULL,
    [ClassTime] [CHAR](5) NULL,
    [UserAuthorizationKey] [INT] NOT NULL,
     CONSTRAINT [PK_WorkFlowSteps] PRIMARY KEY CLUSTERED
    (
        [WorkFlowStepKey] ASC
    )WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_-
ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
    ) ON [PRIMARY]

    ALTER TABLE process.WorkflowSteps
    ADD CONSTRAINT DFT_WorkflowSteps_WorkflowStepKey
        DEFAULT (NEXT VALUE FOR PkSequence.WorkFlowStepKey)
        FOR WorkFlowStepKey;


    ALTER TABLE [Process].[WorkflowSteps] ADD  DEFAULT ((0)) FOR [WorkFlowStepTableRow-
Count]


    ALTER TABLE [Process].[WorkflowSteps] ADD  DEFAULT (SYSDATETIME()) FOR [Starting-
DateDate]


    ALTER TABLE [Process].[WorkflowSteps] ADD  DEFAULT (SYSDATETIME()) FOR [EndingDate-
Time]


    ALTER TABLE [Process].[WorkflowSteps] ADD  DEFAULT ('10:45') FOR [ClassTime];
```

```
    --dimProduct
        --first dropping the table to drop the identity property.
    DROP TABLE IF EXISTS [CH01-01-Dimension].[DimProduct]

    --re-creating the table. This time, no identity property. Adding the other three
columns.
    CREATE TABLE [CH01-01-Dimension].[DimProduct](
    [ProductKey] [INT] NOT NULL,
    [ProductSubcategoryKey] [INT] NULL,
    [ProductCategory] [VARCHAR](20) NULL,
    [ProductSubcategory] [VARCHAR](20) NULL,
    [ProductCode] [VARCHAR](10) NULL,
    [ProductName] [VARCHAR](40) NULL,
    [Color] [VARCHAR](10) NULL,
    [ModelName] [VARCHAR](30) NULL,
    userAuthorizationKey INT NOT NULL,
    DateAdded DATETIME2 NOT NULL
        CONSTRAINT DFT_DimProduct_DateAdded DEFAULT (SYSDATETIME()),
    DateOfLastUpdate DATETIME2 NOT NULL
        CONSTRAINT DFT_DimProduct_DateOfLastUpdate DEFAULT (SYSDATETIME()),
     CONSTRAINT [PK__DimProdu__A15E99B3E27177EF] PRIMARY KEY CLUSTERED
    (
    [ProductKey] ASC
    )WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_-
ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
    ) ON [PRIMARY]
    --setting the default of primary key to sequence
    ALTER TABLE [CH01-01-Dimension].[DimProduct]
    ADD CONSTRAINT DFT_DimProduct_ProductKey
        DEFAULT (NEXT VALUE FOR PkSequence.DimProductProductKey)
        FOR ProductKey;

    PRINT '4 tables created';

-- ADDING 3 columns to each table
--DimGender
    ALTER TABLE [CH01-01-Dimension].DimGender
        ADD userAuthorizationKey INT NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimGender
        ADD DateAdded datetime2 (7) NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimGender
        ADD DateOfLastUpdate datetime2 (7) NOT null

    ALTER TABLE  [CH01-01-Dimension].DimGender ADD  CONSTRAINT [DF_DimGender_DateAdded]
DEFAULT (SYSDATETIME()) FOR [DateAdded]
    ALTER TABLE  [CH01-01-Dimension].DimGender ADD  CONSTRAINT [DF_DimGender_DateOfLast-
Update]  DEFAULT (SYSDATETIME()) FOR [DateOfLastUpdate]

--DimMaritalStatus
    ALTER TABLE [CH01-01-Dimension].DimMaritalStatus
        ADD userAuthorizationKey INT NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimMaritalStatus
        ADD DateAdded datetime2 (7) NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimMaritalStatus
```

```
        ADD DateOfLastUpdate datetime2 (7) NOT null

    ALTER TABLE  [CH01-01-Dimension].DimMaritalStatus ADD  CONSTRAINT [DF_DimMarital-
Status_DateAdded]  DEFAULT (SYSDATETIME()) FOR [DateAdded]
    ALTER TABLE  [CH01-01-Dimension].DimMaritalStatus ADD  CONSTRAINT [DF_DimMarital-
Status_DateOfLastUpdate]  DEFAULT (SYSDATETIME()) FOR [DateOfLastUpdate]

--DimOccupation
    ALTER TABLE [CH01-01-Dimension].DimOccupation
        ADD userAuthorizationKey INT NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimOccupation
        ADD DateAdded datetime2 (7) NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimOccupation
        ADD DateOfLastUpdate datetime2 (7) NOT null

    ALTER TABLE  [CH01-01-Dimension].DimOccupation ADD  CONSTRAINT [DF_DimOccupation_-
DateAdded]  DEFAULT (SYSDATETIME()) FOR [DateAdded]
    ALTER TABLE  [CH01-01-Dimension].DimOccupation ADD  CONSTRAINT [DF_DimOccupation_-
DateOfLastUpdate]  DEFAULT (SYSDATETIME()) FOR [DateOfLastUpdate]

    ALTER TABLE [CH01-01-Dimension].DimOccupation
        ADD CONSTRAINT DFT_DimOccupation_OccupationKey
            DEFAULT (NEXT VALUE FOR PkSequence.DimOccupationOccupationKey) FOR
OccupationKey

--DimOrderDate
    ALTER TABLE [CH01-01-Dimension].DimOrderDate
        ADD userAuthorizationKey INT NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimOrderDate
        ADD DateAdded datetime2 (7) NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimOrderDate
        ADD DateOfLastUpdate datetime2 (7) NOT null

    ALTER TABLE  [CH01-01-Dimension].DimOrderDate ADD  CONSTRAINT [DF_DimOrderDate_Date-
Added]  DEFAULT (SYSDATETIME()) FOR [DateAdded]
    ALTER TABLE  [CH01-01-Dimension].DimOrderDate ADD  CONSTRAINT [DF_DimOrderDate_Date-
OfLastUpdate]  DEFAULT (SYSDATETIME()) FOR [DateOfLastUpdate]

--DimTerritory
    ALTER TABLE [CH01-01-Dimension].DimTerritory
        ADD userAuthorizationKey INT NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimTerritory
        ADD DateAdded datetime2 (7) NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimTerritory
        ADD DateOfLastUpdate datetime2 (7) NOT null

    ALTER TABLE  [CH01-01-Dimension].DimTerritory ADD  CONSTRAINT [DF_DimTerritory_Date-
Added]  DEFAULT (SYSDATETIME()) FOR [DateAdded]
    ALTER TABLE  [CH01-01-Dimension].DimTerritory ADD  CONSTRAINT [DF_DimTerritory_Date-
OfLastUpdate]  DEFAULT (SYSDATETIME()) FOR [DateOfLastUpdate]

    ALTER TABLE [CH01-01-Dimension].DimTerritory
        DROP CONSTRAINT PK__DimTerri__C54B735D813BBCA6
    ALTER TABLE [CH01-01-Dimension].DimTerritory
        DROP COLUMN TerritoryKey
```

```
    ALTER TABLE [CH01-01-Dimension].DimTerritory
        ADD TerritoryKey INT NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimTerritory
        ADD CONSTRAINT PK__DimTerri__C54B735D813BBCA6 PRIMARY KEY (TerritoryKey);

    ALTER TABLE [CH01-01-Dimension].DimTerritory
        ADD CONSTRAINT DFT_DimTerritory_TerritoryKey
            DEFAULT (NEXT VALUE FOR PkSequence.DimTerritoryTerritoryKey) FOR Territory-
Key

--DimCustomer
    ALTER TABLE [CH01-01-Dimension].DimCustomer
        ADD userAuthorizationKey INT NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimCustomer
        ADD DateAdded datetime2 (7) NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimCustomer
        ADD DateOfLastUpdate datetime2 (7) NOT null

    ALTER TABLE  [CH01-01-Dimension].DimCustomer ADD  CONSTRAINT [DF_DimCustomer_Date-
Added]  DEFAULT (SYSDATETIME()) FOR [DateAdded]
    ALTER TABLE  [CH01-01-Dimension].DimCustomer ADD  CONSTRAINT [DF_DimCustomer_DateOf-
LastUpdate]  DEFAULT (SYSDATETIME()) FOR [DateOfLastUpdate]

    ALTER TABLE [CH01-01-Dimension].DimCustomer
        DROP CONSTRAINT PK__DimCusto__95011E6452BCF41C
    ALTER TABLE [CH01-01-Dimension].DimCustomer
        DROP COLUMN CustomerKey
    ALTER TABLE [CH01-01-Dimension].DimCustomer
        ADD CustomerKey INT NOT NULL
    ALTER TABLE [CH01-01-Dimension].DimCustomer
        ADD CONSTRAINT PK__DimCusto__95011E6452BCF41C PRIMARY KEY (CustomerKey);



    ALTER TABLE [CH01-01-Dimension].DimCustomer
        ADD CONSTRAINT DFT_SalesManagers_CustomerKey
            DEFAULT (NEXT VALUE FOR PkSequence.DimCustomerCustomerKey) FOR CustomerKey

--Data
    ALTER TABLE [CH01-01-Fact].Data
        ADD userAuthorizationKey INT NOT NULL
    ALTER TABLE [CH01-01-Fact].Data
        ADD DateAdded datetime2 (7) NOT NULL
    ALTER TABLE [CH01-01-Fact].Data
        ADD DateOfLastUpdate datetime2 (7) NOT null

    ALTER TABLE  [CH01-01-Fact].Data ADD  CONSTRAINT [DF_Data_DateAdded]  DEFAULT
(SYSDATETIME()) FOR [DateAdded]
    ALTER TABLE  [CH01-01-Fact].Data ADD  CONSTRAINT [DF_Data_DateOfLastUpdate]
DEFAULT (SYSDATETIME()) FOR [DateOfLastUpdate]

    ALTER TABLE  [CH01-01-Fact].Data
        ADD CONSTRAINT DFT_Data_SalesKey
            DEFAULT (NEXT VALUE FOR PkSequence.dataSalesKey) FOR SalesKey
```

```
--SalesManager

    ALTER TABLE [CH01-01-Dimension].SalesManagers
        ADD UserAuthorizationKey INT NOT NULL
    ALTER TABLE [CH01-01-Dimension].SalesManagers
        ADD DateAdded datetime2 (7) NULL
    ALTER TABLE [CH01-01-Dimension].SalesManagers
        ADD DateOfLastUpdate DATETIME2 (7) NULL


    ALTER TABLE [CH01-01-Dimension].SalesManagers
        ADD CONSTRAINT DF_SalesManager_DateAdded DEFAULT (SYSDATETIME()) FOR DateAdded

    ALTER TABLE [CH01-01-Dimension].SalesManagers
        ADD CONSTRAINT DF_SalesManager_DateOfLastUpdate DEFAULT (SYSDATETIME()) FOR
DateOfLastUpdate

    ALTER TABLE [CH01-01-Dimension].SalesManagers
        ADD CONSTRAINT DFT_SalesManagers_SalesManagerKey
            DEFAULT (NEXT VALUE FOR PkSequence.DimSalesManagerSalesManagerKey) FOR
SalesManagerKey

END;


GO
```

Uses

Project2

[Project2].[ShowTableStatusRowCount]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
create PROCEDURE [Project2].[ShowTableStatusRowCount]
@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.DimProduct-
Category', COUNT(*) FROM [CH01-01-Dimension].DimProductCategory
    select TableStatus = @TableStatus, TableName ='CH01-01-Dimension.DimProduct-
Subcategory', 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
```

```
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]
Project2

Used By

[Project2].[LoadStarSchemaData]

[Project2].[TruncateStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
-- ============================================
-- Author:        Jasmine Kim
-- Create date: 10/30/2022
-- Description:    Truncating Tables
-- ============================================
CREATE PROCEDURE [Project2].[TruncateStarSchemaData]
    @GroupMemberUserAuthorizationKey INT

AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
    DECLARE @WorkFlowDescription NVARCHAR(100) = 'Truncating Tables and Restarting
Sequences';
    DECLARE @WorkFlowStepTableRowCount INT;
    DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
    DECLARE @EndingDateTime DATETIME2;

    TRUNCATE TABLE [CH01-01-Fact].[Data]
    TRUNCATE TABLE [CH01-01-Dimension].DimCustomer
    TRUNCATE TABLE [CH01-01-Dimension].DimGender
    TRUNCATE TABLE [CH01-01-Dimension].DimMaritalStatus
    TRUNCATE TABLE [CH01-01-Dimension].DimOccupation
    TRUNCATE TABLE [CH01-01-Dimension].DimOrderDate
    TRUNCATE TABLE [CH01-01-Dimension].DimProduct
    TRUNCATE TABLE [CH01-01-Dimension].DimTerritory
    TRUNCATE TABLE [CH01-01-Dimension].SalesManagers
    TRUNCATE TABLE [CH01-01-Dimension].DimProductCategory
    TRUNCATE TABLE [CH01-01-Dimension].DimProductSubcategory
```

```
    TRUNCATE TABLE Process.WorkflowSteps

    ALTER SEQUENCE PkSequence.DataSalesKey
    RESTART WITH 1;

    ALTER SEQUENCE PkSequence.DimCustomerCustomerKey
    RESTART WITH 1;

    ALTER SEQUENCE PkSequence.DimOccupationOccupationKey
    RESTART WITH 1;

    ALTER SEQUENCE PkSequence.DimProductCategoryProductCategoryKey
    RESTART WITH 1;


    ALTER SEQUENCE PkSequence.DimProductProductKey
    RESTART WITH 1;

    ALTER SEQUENCE PkSequence.DimProductSubcategoryProductSubcategoryKey
    RESTART WITH 1;

    ALTER SEQUENCE PkSequence.DimSalesManagerSalesManagerKey
    RESTART WITH 1;

    ALTER SEQUENCE PkSequence.DimTerritoryTerritoryKey
    RESTART WITH 1;

    ALTER SEQUENCE PkSequence.UserAuthorizationKey
    RESTART WITH 1;

    ALTER SEQUENCE PkSequence.WorkFlowStepKey
    RESTART WITH 1;

    SELECT @WorkFlowStepTableRowCount =  0;
    SELECT @EndingDateTime = SYSDATETIME();

    EXEC process.usp_trackWorkFlows @WorkFlowDescription, @WorkFlowStepTableRowCount,
@StartingDateTime, @EndingDateTime, @GroupMemberUserAuthorizationKey;

    PRINT 'tables truncated and sequences restarted'
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].[WorkflowSteps]
[Process].[usp_TrackWorkFlows]
Project2

Used By

[Project2].[LoadStarSchemaData]

[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('(', @Data-
Type, 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('(', @Data-
Type, 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.DataSalesKey
PkSequence.DimCustomerCustomerKey
PkSequence.DimOccupationOccupationKey
PkSequence.DimProductCategoryProductCategoryKey
PkSequence.DimProductProductKey
PkSequence.DimProductSubcategoryProductSubcategoryKey
PkSequence.DimSalesManagerSalesManagerKey
PkSequence.DimTerritoryTerritoryKey
PkSequence.UserAuthorizationKey
PkSequence.WorkFlowStepKey

[PkSequence].[DataSalesKey]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

PkSequence

[PkSequence].[DimCustomerCustomerKey]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

PkSequence

[PkSequence].[DimOccupationOccupationKey]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

PkSequence

[PkSequence].[DimProductCategoryProductCategoryKey]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

PkSequence

[PkSequence].[DimProductProductKey]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

PkSequence

[PkSequence].[DimProductSubcategoryProductSubcategoryKey]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

PkSequence

[PkSequence].[DimSalesManagerSalesManagerKey]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

PkSequence

[PkSequence].[DimTerritoryTerritoryKey]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

PkSequence

[PkSequence].[UserAuthorizationKey]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

PkSequence

[PkSequence].[WorkFlowStepKey]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

PkSequence

Used By

[Process].[usp_TrackWorkFlows]

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\Redgate-Backup')
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
group2
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]

group2

Properties

Property	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA [group2]
AUTHORIZATION [dbo]
GO
```

PkSequence

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[PkSequence].[DataSalesKey]
[PkSequence].[DimCustomerCustomerKey]
[PkSequence].[DimOccupationOccupationKey]
[PkSequence].[DimProductCategoryProductCategoryKey]
[PkSequence].[DimProductProductKey]
[PkSequence].[DimProductSubcategoryProductSubcategoryKey]
[PkSequence].[DimSalesManagerSalesManagerKey]
[PkSequence].[DimTerritoryTerritoryKey]
[PkSequence].[UserAuthorizationKey]
[PkSequence].[WorkFlowStepKey]

Process

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[Process].[WorkflowSteps]
[Process].[usp_TrackWorkFlows]

Project2

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[Project2].[AddForeignKeysToStarSchemaData]
[Project2].[CreateSequences]
[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].[preparation]
[Project2].[ShowTableStatusRowCount]
[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]