G10_3 Project 2: Recreate BiClass

BIClass

Server 10.0.2.2, 12001

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Databases (1)

• BIClass

Server Properties

Property	Value
Product	Microsoft SQL Server
Version	15.0.4063.15
Language	English
Platform	NT x64
Edition	Developer Edition (64-bit)
Engine Edition	3 (Enterprise)
Processors	4
OS Version	6.2 (9200)
Physical Memory	3149
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	
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Databases (1)

• BIClass

■ BIClass Database

Database Properties

Property	Value
SQL Server Version	Max
Compatibility Level	SQL Server 2014
Last backup time	10/29/2020
Last log backup time	-
Creation date	Nov 21 2020
Users	7
Database Encryption Enabled	False
Database Encryption Algorithm	None
Database size	739.25 MB
Unallocated space	46.66 MB

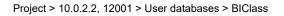
Database Options

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	True
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	Туре	Size	Maxsize	Autogrowth	File Name
BIClass	Data	67.00 MB	unlimited	1.00 MB	/var/opt/mssql/data/BIClass.mdf
BIClass_log	Log	672.25 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	10:01:14 PM Saturday, November 21, 2020	
Last Modified	10:39:26 PM Sunday, November 22, 2020	

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
P∳ <mark>C</mark>	CustomerKey	int	4	NOT NULL	(NEXT VALUE FOR [PkSequence].[Dim- CustomerSequence- Object])
	CustomerName	varchar(255)	255	NOT NULL	
	UserAuthorizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Key Name		Unique
PKP G	PKDimCusto95011E646FD14743	CustomerKey	True

```
CREATE TABLE [CH01-01-Dimension].[DimCustomer]

(

[CustomerKey] [int] NOT NULL CONSTRAINT [DF__DimCustom__Custo__61316BF4] DEFAULT (NEXT VALUE FOR [PkSequence].[DimCustomerSequenceObject]),

[CustomerName] [varchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[UserAuthorizationKey] [int] NOT NULL,

[DateAdded] [datetime2] NULL CONSTRAINT [DF__DimCustom__DateA__7EC1CEDB] DEFAULT (sysdatetime()),

[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF__DimCustom__DateO__7FB5F314] DEFAULT (sysdatetime())

) ON [PRIMARY]

GO

ALTER TABLE [CH01-01-Dimension].[DimCustomer] ADD CONSTRAINT [PK__Dim-_
```

Custo__95011E646FD14743] PRIMARY KEY CLUSTERED ([CustomerKey]) ON [PRIMARY]
GO

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]

[Project2].[Load_DimCustomer]

[Project2].[LoadData]

[Project2].[ShowTableStatusRowCount]

[Project2].[TruncateStarSchemaData]

[CH01-01-Dimension].[DimGender]

Properties

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
Row Count (~)	2	
Created	10:13:13 PM Sunday, November 22, 2020	
Last Modified	10:39:26 PM Sunday, November 22, 2020	

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK	Gender	char(1)	1	NOT NULL	
	GenderDescription	varchar(10)	10	NOT NULL	
	UserAuthorizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Key Name		Unique
PK2 C	PKDimGende8DCABCD7ECB1B8AC	Gender	True

```
CREATE TABLE [CH01-01-Dimension].[DimGender]

(
[Gender] [char] (1) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[GenderDescription] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[UserAuthorizationKey] [int] NOT NULL,

[DateAdded] [datetime2] NULL CONSTRAINT [DF_DimGender_DateA_744F2D60] DEFAULT (sysdatetime()),

[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF_DimGender_DateO_75435199] DEFAULT (sysdatetime())

) ON [PRIMARY]

GO

ALTER TABLE [CH01-01-Dimension].[DimGender] ADD CONSTRAINT [PK_Dim-Gende_8DCABCD7ECB1B8AC] 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	12:08:58 PM Sunday, November 22, 2020	
Last Modified	10:39:26 PM Sunday, November 22, 2020	

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	NULL allowed	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Key Name		Unique
PK2 C	PKDimMaritF50186AB2E3FCDF1	MaritalStatus	True

```
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] NULL CONSTRAINT [DF_DimMarita_DateA_2D32A501] DEFAULT (sysdatetime()),

[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF_DimMarita_DateO_2E26C93A] DEFAULT (sysdatetime())

ON [PRIMARY]

GO

ALTER TABLE [CH01-01-Dimension].[DimMaritalStatus] ADD CONSTRAINT [PK_DimMarit_-F50186AB2E3FCDF1] 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	10:01:24 PM Saturday, November 21, 2020	
Last Modified	10:39:26 PM Sunday, November 22, 2020	

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
P <mark>∕</mark> C	OccupationKey	int	4	NOT NULL	(NEXT VALUE FOR [Pk- Sequence].[Dim- OccupationSequence- Object])
	Occupation	varchar(20)	20	NOT NULL	
	UserAuthorizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PKP G	PKDimOccup742667DA11510881	OccupationKey	True

```
CREATE TABLE [CH01-01-Dimension].[DimOccupation]

(
[OccupationKey] [int] NOT NULL CONSTRAINT [DF__DimOccupa__Occup__65F62111] DEFAULT (NEXT VALUE FOR [PkSequence].[DimOccupationSequenceObject]),

[Occupation] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[UserAuthorizationKey] [int] NOT NULL,

[DateAdded] [datetime2] NULL CONSTRAINT [DF__DimOccupa__DateA__047AA831] DEFAULT (sysdatetime()),

[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF__DimOccupa__DateO__056ECC6A] DEFAULT (sysdatetime())

) ON [PRIMARY]

GO

ALTER TABLE [CH01-01-Dimension].[DimOccupation] ADD CONSTRAINT [PK__Dim-
```

Occup__742667DA11510881] PRIMARY KEY CLUSTERED ([OccupationKey]) ON [PRIMARY]
GO

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]

[Project2].[Load_DimOccupation]

[Project2].[LoadData]

[Project2].[ShowTableStatusRowCount]

[Project2].[TruncateStarSchemaData]

[CH01-01-Dimension].[DimOrderDate]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	1124
Created	10:01:28 PM Saturday, November 21, 2020
Last Modified	10:39:26 PM Sunday, November 22, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK C	OrderDate	date	3	NOT NULL	
	MonthName	varchar(10)	10	NOT NULL	
	MonthNumber	int	4	NOT NULL	
	Year	int	4	NOT NULL	
	UserAuthorizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK	PKDimOrder7680024A6DDAB44B	OrderDate	True

```
CREATE TABLE [CH01-01-Dimension].[DimOrderDate]

(
[OrderDate] [date] NOT NULL,
[MonthName] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[MonthNumber] [int] NOT NULL,
[Year] [int] NOT NULL,
[UserAuthorizationKey] [int] NOT NULL,
[DateAdded] [datetime2] NULL CONSTRAINT [DF_DimOrderD_DateA_0662F0A3] DEFAULT (sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF_DimOrderD_DateO_075714DC] DEFAULT (sysdatetime())

) ON [PRIMARY]
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Tables > CH01-01-Dimension.DimOrderDate

```
GO
ALTER TABLE [CH01-01-Dimension].[DimOrderDate] ADD CONSTRAINT [PK__Dim-Order__7680024A6DDAB44B] PRIMARY KEY CLUSTERED ([OrderDate]) ON [PRIMARY]
GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]

[Project2].[Load_DimOrderDate]

[Project2].[Load_DimProduct]

[Project2].[LoadStarSchemaData]

[Project2].[ShowTableStatusRowCount]

[Project2].[TruncateStarSchemaData]

[CH01-01-Dimension].[DimProduct]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	130
Created	3:37:21 AM Sunday, November 22, 2020
Last Modified	10:39:26 PM Sunday, November 22, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
₽ <mark>%</mark> C	ProductKey	int	4	NOT NULL	(NEXT VALUE FOR [PkSequence].[Dim- ProductSequence- Object])
FK	ProductSubCategoryKey	int	4	NOT NULL	
	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	NULL allowed	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK	PKDimProduA15E99B35DAD4F80	ProductKey	True

Foreign Keys

Name	Columns
FK_DimProduct_DimProductSubcategory	ProductSubCategoryKey->[CH01-01-Dimension].[DimProductSubCategory].[ProductSubCategorykey]

SQL Script

```
CREATE TABLE [CH01-01-Dimension].[DimProduct]
[ProductKey] [int] NOT NULL CONSTRAINT [DF DimProduc Produ 53A266AC] DEFAULT (NEXT
VALUE FOR [PkSequence].[DimProductSequenceObject]),
[ProductSubCategoryKey] [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,
[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] NULL CONSTRAINT [DF DimProduc DateA 20E1DCB5] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF DimProduc DateO 21D600EE] DEFAULT
(sysdatetime())
ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimProduct] ADD CONSTRAINT [PK DimProdu -
A15E99B35DAD4F80] PRIMARY KEY CLUSTERED ([ProductKey]) ON [PRIMARY]
ALTER TABLE [CH01-01-Dimension].[DimProduct] ADD CONSTRAINT [FK DimProduct DimProduct-
Subcategory] FOREIGN KEY ([ProductSubCategoryKey]) REFERENCES [CH01-01-Dimension].[Dim-
ProductSubCategory] ([ProductSubCategorykey])
```

Uses

[CH01-01-Dimension].[DimProductSubCategory] CH01-01-Dimension

Used By

[Project2].[Load_DimProduct]
[Project2].[LoadData]
[Project2].[LoadDimProduct]
[Project2].[ShowTableStatusRowCount]
[Project2].[TruncateStarSchemaData]

[CH01-01-Dimension].[DimProductCategory]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	3
Created	10:03:24 PM Saturday, November 21, 2020
Last Modified	10:39:26 PM Sunday, November 22, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
P <mark>∕</mark> C	ProductCategorykey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[Dim-ProductCategory-SequenceObject])
	ProductCategory	varchar(20)	20	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
PKP G	PKDimProduB33642729EDA5DCB	ProductCategorykey	True

```
CREATE TABLE [CH01-01-Dimension].[DimProductCategory]

(
[ProductCategorykey] [int] NOT NULL CONSTRAINT [DF_DimProduc_Produ_7814D14C] DEFAULT
(NEXT VALUE FOR [PKSequence].[DimProductCategorySequenceObject]),
[ProductCategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[UserAuthorizationKey] [int] NOT NULL,
[DateAdded] [datetime2] NULL CONSTRAINT [DF_DimProduc_DateA_0E04126B] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF_DimProduc_DateO_0EF836A4] DEFAULT
(sysdatetime())
) ON [PRIMARY]

GO
ALTER TABLE [CH01-01-Dimension].[DimProductCategory] ADD CONSTRAINT [PK DimProduc_-
```

B33642729EDA5DCB] PRIMARY KEY CLUSTERED ([ProductCategorykey]) ON [PRIMARY]
GO

Uses

CH01-01-Dimension

Used By

[CH01-01-Dimension].[DimProductSubCategory]

[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	10:03:46 PM Saturday, November 21, 2020
Last Modified	10:39:26 PM Sunday, November 22, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PKP C	ProductSubCategorykey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[Dim- ProductSubCategory- SequenceObject])
FK	ProductCategoryKey	int	4	NOT NULL	
	ProductSubCategory	varchar(20)	20	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	PKDimProdu30E35839AC867CF1	ProductSubCategorykey	True

Foreign Keys

Name	Columns
FK_DimProductSubcategory_DimProductCategory	ProductCategoryKey->[CH01-01-Dimension].[DimProduct-Category].[ProductCategorykey]

```
CREATE TABLE [CH01-01-Dimension].[DimProductSubCategory]

(
[ProductSubCategorykey] [int] NOT NULL CONSTRAINT [DF__DimProduc__Produ__7BE56230]
```

```
DEFAULT (NEXT VALUE FOR [PKSequence].[DimProductSubCategorySequenceObject]),

[ProductCategoryKey] [int] NOT NULL,

[ProductSubCategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[UserAuthorizationKey] [int] NOT NULL,

[DateAdded] [datetime2] NULL CONSTRAINT [DF__DimProduc__DateA__OFEC5ADD] DEFAULT

(sysdatetime()),

[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF__DimProduc__DateO__10E07F16] DEFAULT

(sysdatetime())

ON [PRIMARY]

GO

ALTER TABLE [CH01-01-Dimension].[DimProductSubCategory] ADD CONSTRAINT [PK__Dim-
Produ__30E35839AC867CF1] PRIMARY KEY CLUSTERED ([ProductSubCategorykey]) ON [PRIMARY]

GO

ALTER TABLE [CH01-01-Dimension].[DimProductSubCategory] ADD CONSTRAINT [FK_DimProduct-
Subcategory_DimProductCategory] FOREIGN KEY ([ProductCategoryKey]) REFERENCES [CH01-01-
Dimension].[DimProductCategory] ([ProductCategorykey])
```

Uses

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

Used By

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

[CH01-01-Dimension].[DimTerritory]

Properties

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
Row Count (~)	10	
Created	11:44:50 PM Saturday, November 21, 2020	
Last Modified	10:39:26 PM Sunday, November 22, 2020	

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK P C	TerritoryKey	int	4	NOT NULL	(NEXT VALUE FOR [Pk-Sequence].[DimTerritory-SequenceObject])
	TerritoryGroup	varchar(20)	20	NOT NULL	
	TerritoryCountry	varchar(20)	20	NOT NULL	
	TerritoryRegion	varchar(20)	20	NOT NULL	
	UserAuthorizationKey	int	4	NOT NULL	
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())
	DateOfLastUpdate	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK	PKDimTerriC54B735D174290E8	TerritoryKey	True

```
CREATE TABLE [CH01-01-Dimension].[DimTerritory]

(
[TerritoryKey] [int] NOT NULL CONSTRAINT [DF__DimTerrit__Terri__13BCEBC1] DEFAULT (NEXT VALUE FOR [PkSequence].[DimTerritorySequenceObject]),

[TerritoryGroup] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[TerritoryRegion] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[TerritoryRegion] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[UserAuthorizationKey] [int] NOT NULL,

[DateAdded] [datetime2] NULL CONSTRAINT [DF__DimTerrit__DateA__14B10FFA] DEFAULT (sysdatetime()),

[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF__DimTerrit__DateO_15A53433] DEFAULT
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Tables > CH01-01-Dimension.DimTerritory

```
(sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [CH01-01-Dimension].[DimTerritory] ADD CONSTRAINT [PK__DimTerri__-
C54B735D174290E8] PRIMARY KEY CLUSTERED ([TerritoryKey]) ON [PRIMARY]
GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]

[Project2].[Load_DimTerritory]

[Project2].[LoadData]

[Project2].[LoadDimTerritory]

[Project2].[ShowTableStatusRowCount]

[Project2].[TruncateStarSchemaData]

[CH01-01-Dimension].[SalesManagers]

Properties

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
Row Count (~)	9	
Created	11:45:08 AM Sunday, November 22, 2020	
Last Modified	10:39:26 PM Sunday, November 22, 2020	

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK <mark>P</mark> C	SalesManagerKey	int	4	NOT NULL	(NEXT VALUE FOR [Pk- Sequence].[Sales- ManagersSequence- Object])
	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 G	PKSalesManB619AC13F146D843	SalesManagerKey	True

```
CREATE TABLE [CH01-01-Dimension].[SalesManagers]

(
[SalesManagerKey] [int] NOT NULL CONSTRAINT [DF__SalesMana__Sales__155B1B70] DEFAULT (NEXT VALUE FOR [PkSequence].[SalesManagersSequenceObject]),

[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__SalesMana__DateA__164F3FA9] DEFAULT (sysdatetime()),
```

```
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF_SalesMana_DateO_174363E2] DEFAULT (sysdatetime())

ON [PRIMARY]

GO

ALTER TABLE [CH01-01-Dimension]. [SalesManagers] ADD CONSTRAINT [PK_SalesMan_-B619AC13F146D843] PRIMARY KEY CLUSTERED ([SalesManagerKey]) ON [PRIMARY]

GO
```

Uses

CH01-01-Dimension

Used By

[CH01-01-Fact].[Data]

[Project2].[Load_SalesManagers]

[Project2].[LoadData]

[Project2].[LoadSalesManagers]

[Project2].[ShowTableStatusRowCount]

[Project2].[TruncateStarSchemaData]

☐ [CH01-01-Fact].[Data]

Properties

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
Row Count (~)	1000	
Created	2:12:59 AM Sunday, November 22, 2020	
Last Modified	10:39:26 PM Sunday, November 22, 2020	

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK <mark>P</mark> C	SalesKey	int	4	NOT NULL	(NEXT VALUE FOR [PKSequence].[Data-SequenceObject])
FK	SalesManagerKey	int	4	NULL allowed	
FK	OccupationKey	int	4	NULL allowed	
FK	TerritoryKey	int	4	NULL allowed	
	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	NULL allowed
	DateOfLastUpdate	datetime2	8	NULL allowed

Indexes

Key	Name	Key Columns	Unique
PK C	PKDataC104F6F1BB65B5D4	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_DimTerritory	TerritoryKey->[CH01-01-Dimension].[DimTerritory].[TerritoryKey]
FK_Data_SalesManagers	SalesManagerKey->[CH01-01-Dimension].[SalesManagers].[SalesManagerKey]

```
CREATE TABLE [CH01-01-Fact].[Data]

(
[SalesKey] [int] NOT NULL CONSTRAINT [DF_Data_SalesKey_4A18FC72] DEFAULT (NEXT VALUE FOR [PKSequence].[DataSequenceObject]),

[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,

[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] NULL,
[DateOfLastUpdate] [datetime2] NULL
) ON [PRIMARY]
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [PK Data C104F6F1BB65B5D4] PRIMARY
KEY CLUSTERED ([SalesKey]) ON [PRIMARY]
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 DimOccupation] FOREIGN KEY
([OccupationKey]) REFERENCES [CH01-01-Dimension].[DimOccupation] ([OccupationKey])
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK Data DimOrderDate] FOREIGN KEY
([OrderDate]) REFERENCES [CH01-01-Dimension].[DimOrderDate] ([OrderDate])
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK Data DimTerritory] FOREIGN KEY
([TerritoryKey]) REFERENCES [CH01-01-Dimension].[DimTerritory] ([TerritoryKey])
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK Data SalesManagers] FOREIGN KEY
([SalesManagerKey]) REFERENCES [CH01-01-Dimension].[SalesManagerS] ([SalesManagerKey])
```

Uses

Project > 10.0.2.2, 12001 > User databases > BIClass > Tables > CH01-01-Fact.Data

[CH01-01-Dimension].[DimGender]

[CH01-01-Dimension].[DimMaritalStatus]

[CH01-01-Dimension].[DimOccupation]

[CH01-01-Dimension].[DimOrderDate]

[CH01-01-Dimension].[DimTerritory]

[CH01-01-Dimension].[SalesManagers]

CH01-01-Fact

Used By

[Project2].[LoadData] [Project2].[ShowTableStatusRowCount] [Project2].[TruncateStarSchemaData]

[DbSecurity].[UserAuthorization]

Properties

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
Row Count (~)	5	
Created	10:30:23 PM Sunday, November 22, 2020	
Last Modified	10:30:23 PM Sunday, November 22, 2020	

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
P <mark>/</mark> C	UserAuthorizationKey	int	4	NOT NULL	(NEXT VALUE FOR [PkSequence].[User-Authorization-SequenceObject])
	ClassTime	nchar(5)	10	NULL allowed	('10:45')
	Individual Project	nvarchar(60)	120	NULL allowed	('PROJECT 2 RECREATE THE BICLASS DATABASE STAR SCHEMA')
	GroupMemberLastName	nvarchar(35)	70	NOT NULL	
	GroupMemberFirstName	nvarchar(25)	50	NOT NULL	
	GroupName	nvarchar(20)	40	NOT NULL	('G10_3')
	DateAdded	datetime2	8	NULL allowed	(sysdatetime())

Indexes

Key	Name	Key Columns	Unique
PK G	PK_UserAuth_0FEC36CB355D902D	UserAuthorizationKey	True

```
CREATE TABLE [DbSecurity].[UserAuthorization]

(
[UserAuthorizationKey] [int] NOT NULL CONSTRAINT [DF_UserAutho_UserA_2B9F624A]

DEFAULT (NEXT VALUE FOR [PkSequence].[UserAuthorizationSequenceObject]),

[ClassTime] [nchar] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NULL CONSTRAINT [DF_User-Autho_Class_2C938683] DEFAULT ('10:45'),

[Individual Project] [nvarchar] (60) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
```

```
CONSTRAINT [DF_UserAutho_Indiv_2D87AABC] 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_2E7BCEF5] DEFAULT ('G10_3'),

[DateAdded] [datetime2] NULL CONSTRAINT [DF_UserAutho_DateA_2F6FF32E] DEFAULT

(sysdatetime())

) ON [PRIMARY]

GO

ALTER TABLE [DbSecurity].[UserAuthorization] ADD CONSTRAINT [PK_User-Auth_OFEC36CB355D902D] PRIMARY KEY CLUSTERED ([UserAuthorizationKey]) ON [PRIMARY]

GO
```

DbSecurity

Used By

[Process].[CalculateTimeSpentByEachMember]

[FileUpload].[OriginallyLoadedData]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Неар	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]
GΩ
```

Uses

FileUpload

Used By

Soleimany, Ishraq Khan

```
[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].[LoadData]
[Project2].[LoadDimProduct]
Author: Trisha Espejo, Patryck
Golebiewski, Xihao Huang, Ben
```

Project > 10.0.2.2, 12001 > User databases > BlClass > Tables > FileUpload.OriginallyLoadedData

[Project2].[LoadDimTerritory] [Project2].[LoadSalesManagers]

[FileUpload].[ProductCategories]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Неар	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

III [FileUpload].[ProductSubcategories]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Неар	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 (~)	16	
Created	9:55:40 PM Saturday, November 21, 2020	
Last Modified	9:55:40 PM Saturday, November 21, 2020	

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PK <mark>P</mark> C	WorkFlowStepKey	int	4	NOT NULL	(NEXT VALUE FOR [Pk- Sequence].[Wo rkflowSteps- Sequence- Object])
	WorkFlowStepDescription	nvarchar(100)	200	NOT NULL	
	WorkFlowStepTableRowCount	int	4	NULL allowed	((0))
	StartingDateTime	datetime2	8	NULL allowed	(sysdatetime())
	EndingDateTime	datetime2	8	NULL allowed	(sysdatetime())
	ClassTime	char(5)	5	NULL allowed	('10:45')
	UserAuthorizationKey	int	4	NOT NULL	

Indexes

Key	Name	Key Columns	Unique
PK G	PKWorkFlow27726CBFFD891908	WorkFlowStepKey	True

```
CREATE TABLE [Process].[WorkFlowSteps]

(
[WorkFlowStepKey] [int] NOT NULL CONSTRAINT [DF__WorkFlowS__WorkF__4C364F0E] DEFAULT
(NEXT VALUE FOR [PkSequence].[WorkflowStepsSequenceObject]),

[WorkFlowStepDescription] [nvarchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[WorkFlowStepTableRowCount] [int] NULL CONSTRAINT [DF__WorkFlowS__WorkF__4D2A7347] DEFAULT ((0)),

[StartingDateTime] [datetime2] NULL CONSTRAINT [DF__WorkFlowS__Start__4E1E9780] DEFAULT
```

```
(sysdatetime()),
[EndingDateTime] [datetime2] NULL CONSTRAINT [DF_WorkFlowS_Endin_4F12BBB9] DEFAULT
(sysdatetime()),
[ClassTime] [char] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NULL CONSTRAINT [DF_Work-FlowS_Class_5006DFF2] DEFAULT ('10:45'),
[UserAuthorizationKey] [int] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [Process].[WorkFlowSteps] ADD CONSTRAINT [PK_WorkFlow_27726CBFFD891908]
PRIMARY KEY CLUSTERED ([WorkFlowStepKey]) ON [PRIMARY]
GO
```

Process

Used By

[Process].[CalculateTimeSpentByEachMember] [Process].[usp_CalculateTimeSpentAtEachStep] [Process].[usp_TrackWorkFlow] [Project2].[RestartSequence]

■ Views

Objects

Name

Utils. Show Server User Name And Current Database

 $Utils.uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint$

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

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

```
--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
                  INFORMATION SCHEMA. TABLES
         FROM
        ) 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
```

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

```
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
```

 $[Utils]. [uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint] \\ Utils$

■ Stored Procedures

Objects

Name
Process.CalculateTimeSpentByEachMember
Process.usp_CalculateTimeSpentAtEachStep
Process.usp_TrackWorkFlow
Project2.AddForeignKeysToStarSchemaData
Project2.DropForeignKeysFromStarSchemaData
Project2.Load_Data
Project2.Load_DimCustomer
Project2.Load_DimGender
Project2.Load_DimMaritalStatus
Project2.Load_DimOccupation
Project2.Load_DimOrderDate
Project2.Load_DimProduct
Project2.Load_DimProductCategory
Project2.Load_DimProductSubcategory
Project2.Load_DimTerritory
Project2.Load_SalesManagers
Project2.LoadData
Project2.LoadDimProduct
Project2.LoadDimTerritory
Project2.LoadSalesManagers
Project2.LoadStarSchemaData
Project2.RestartSequence
Project2.ShowTableStatusRowCount
Project2.TruncateStarSchemaData
Utils.DropProcsInCSCl331FinalProject

[Process].[CalculateTimeSpentByEachMember]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
Create PROCEDURE [Process].[CalculateTimeSpentByEachMember]
AS
BEGIN
   SELECT SecurityDB.UserAuthorizationKey
        , GroupMember = CONCAT (
           SecurityDB.GroupMemberFirstName
            , SecurityDB.GroupMemberLastName
        , NumberOfProcedures = COUNT(WorkFlow.UserAuthorizationKey)
        , TotalTimeSpent = CONCAT (
           SUM (DATEDIFF (MILLISECOND, WorkFlow.StartingDateTime, WorkFlow.EndingDate-
Time))
            , 'ms'
   FROM Process.WorkFlowSteps AS WorkFlow
   INNER JOIN DbSecurity.UserAuthorization AS SecurityDB ON SecurityDB.User-
AuthorizationKey = WorkFlow.UserAuthorizationKey
   GROUP BY SecurityDB.UserAuthorizationKey
        , SecurityDB.GroupMemberFirstName
        , SecurityDB.GroupMemberLastName
END;
GO
```

Uses

[DbSecurity].[UserAuthorization] [Process].[WorkFlowSteps] Process

[Process].[usp_CalculateTimeSpentAtEachStep]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

Uses

[Process].[WorkFlowSteps]

Process

[Process].[usp_TrackWorkFlow]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Process].[usp_TrackWorkFlow] (
   @UserAuthorizationKey INT
   , @WorkFlowStepDescription NVARCHAR(100)
    , @WorkFlowStepTableRowCount INT
   , @StartingDateTime DATETIME2(7)
    , @EndingDateTime DATETIME2(7)
AS
BEGIN
   INSERT INTO Process.WorkFlowSteps (
        UserAuthorizationKey
       , WorkFlowStepDescription
        , WorkFlowStepTableRowCount
        , StartingDateTime
        , EndingDateTime
   VALUES (
        @UserAuthorizationKey
        , @WorkFlowStepDescription
        , @WorkFlowStepTableRowCount
        , @StartingDateTime
        , @EndingDateTime
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Process.usp_TrackWorkFlow

END;
GO

Uses

[Process].[WorkFlowSteps]

Process

Used By

[Project2].[AddForeignKeysToStarSchemaData]

[Project2].[DropForeignKeysFromStarSchemaData]

[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].[LoadData]

[Project2].[LoadDimProduct]

[Project2].[LoadDimTerritory]

[Project2].[LoadSalesManagers]

[Project2].[LoadStarSchemaData]

[Project2].[RestartSequence]

[Project2].[TruncateStarSchemaData]

[Project2].[AddForeignKeysToStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[AddForeignKeysToStarSchemaData]
@GroupMemberUserAuthorityKey INT
AS
BEGIN
   DECLARE @CurrentDateTime AS DATETIME2(7) = SYSDATETIME(),
   @EndingDateTime as datetime2
   SET NOCOUNT ON
ALTER TABLE [CH01-01-Fact].[Data] WITH CHECK ADD CONSTRAINT [FK Data DimCustomer]
FOREIGN KEY([CustomerKey])
REFERENCES [CH01-01-Dimension].[DimCustomer] ([CustomerKey])
ALTER TABLE [CH01-01-Fact].[Data] CHECK CONSTRAINT [FK Data DimCustomer]
ALTER TABLE [CH01-01-Fact].[Data] WITH CHECK ADD CONSTRAINT [FK_Data_DimGender]
FOREIGN KEY([Gender])
REFERENCES [CH01-01-Dimension].[DimGender] ([Gender])
ALTER TABLE [CH01-01-Fact].[Data] CHECK CONSTRAINT [FK Data DimGender]
ALTER TABLE [CH01-01-Fact].[Data] WITH CHECK ADD CONSTRAINT [FK Data DimMarital-
Status] FOREIGN KEY([MaritalStatus])
REFERENCES [CH01-01-Dimension].[DimMaritalStatus] ([MaritalStatus])
ALTER TABLE [CH01-01-Fact].[Data] CHECK CONSTRAINT [FK Data DimMaritalStatus]
ALTER TABLE [CH01-01-Fact].[Data] WITH CHECK ADD CONSTRAINT [FK_Data_DimOccupation]
FOREIGN KEY([OccupationKey])
REFERENCES [CH01-01-Dimension].[DimOccupation] ([OccupationKey])
```

```
ALTER TABLE [CH01-01-Fact].[Data] CHECK CONSTRAINT [FK Data DimOccupation]
ALTER TABLE [CH01-01-Fact].[Data] WITH CHECK ADD CONSTRAINT [FK Data DimOrderDate]
FOREIGN KEY([OrderDate])
REFERENCES [CH01-01-Dimension].[DimOrderDate] ([OrderDate])
ALTER TABLE [CH01-01-Fact].[Data] CHECK CONSTRAINT [FK Data DimOrderDate]
ALTER TABLE [CH01-01-Fact].[Data] WITH CHECK ADD CONSTRAINT [FK Data DimTerritory]
FOREIGN KEY([TerritoryKey])
REFERENCES [CH01-01-Dimension].[DimTerritory] ([TerritoryKey])
ALTER TABLE [CH01-01-Fact].[Data] CHECK CONSTRAINT [FK Data DimTerritory]
ALTER TABLE [CH01-01-Fact].[Data] WITH CHECK ADD CONSTRAINT [FK Data SalesManagers]
FOREIGN KEY([SalesManagerKey])
REFERENCES [CH01-01-Dimension].[SalesManagers] ([SalesManagerKey])
ALTER TABLE [CH01-01-Fact].[Data] CHECK CONSTRAINT [FK Data SalesManagers]
ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] WITH CHECK ADD CONSTRAINT [FK -
DimProductSubcategory_DimProductCategory]
FOREIGN KEY ([ProductCategoryKey])
REFERENCES [CH01-01-Dimension].[DimProductCategory]([ProductCategoryKey])
ALTER TABLE [CH01-01-Dimension].[DimProduct] WITH CHECK ADD CONSTRAINT [FK DimProduct -
DimProductSubcategory]
FOREIGN KEY ([ProductSubcategoryKey])
REFERENCES [CH01-01-Dimension].[DimProductSubcategory]([ProductSubcategoryKey])
Set @EndingDateTime = SYSDATETIME();
EXEC Process.usp TrackWorkFlow
    @UserAuthorizationKey = @GroupMemberUserAuthorityKey
     , @StartingDateTime = @CurrentDateTime
     ,@EndingDateTime = @EndingDateTime
    , @WorkFlowStepDescription = 'Add Foreign Key'
    , @WorkFlowStepTableRowCount = @@RowCount
End:
GΟ
```

[Process].[usp_TrackWorkFlow]

Project2

Used By

[Project2].[DropForeignKeysFromStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[DropForeignKeysFromStarSchemaData]
   @GroupMemberUserAuthorityKey INT
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @CurrentDateTime datetime2 = SYSDATETIME(),
   @EndingDateTime datetime2;
--Drops the foreign key for DimCustomer
ALTER TABLE [CH01-01-Fact].[Data]
DROP CONSTRAINT FK Data DimCustomer;
--drops foreign key for DimOccupation
ALTER TABLE [CH01-01-Fact].Data
DROP CONSTRAINT FK_Data_DimOccupation ;
--drops foreign key for DimOrderDate
ALTER TABLE [CH01-01-Fact].Data
DROP CONSTRAINT FK_Data_DimOrderDate;
--drops foreign key for Gender
ALTER TABLE [CH01-01-Fact].Data
DROP CONSTRAINT FK Data DimGender ;
--drops foreign key for Marital Status
ALTER TABLE [CH01-01-Fact].Data
DROP CONSTRAINT FK Data DimMaritalStatus ;
--drops foreign key for DimTerritory
ALTER TABLE [CH01-01-Fact].Data
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Drop-ForeignKeysFromStarSchemaData

```
DROP CONSTRAINT FK Data DimTerritory;
--drops foreign key for SalesManager
ALTER TABLE [CH01-01-Fact].Data
DROP CONSTRAINT FK Data SalesManagers;
Alter TABLE [CH01-01-Dimension].[DimProductSubCategory]
drop CONSTRAINT FK DimProductSubcategory DimProductCategory;
ALTER table [CH01-01-Dimension].[DimProduct]
drop CONSTRAINT [FK_DimProduct_DimProductSubcategory] ;
Set @EndingDateTime = SYSDATETIME();
EXEC Process.usp_TrackWorkFlow
    @UserAuthorizationKey = @GroupMemberUserAuthorityKey
   , @StartingDateTime = @CurrentDateTime
   , @EndingDateTime = @EndingDateTime
    , @WorkFlowStepDescription = 'Drop Foreign Keys'
    , @WorkFlowStepTableRowCount = @@RowCount
END;
GO
```

Uses

[Process].[usp_TrackWorkFlow] Project2

Used By

[Project2].[Load_Data]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
-- Author: YourName
-- Create date:
-- Description:
-- @GroupMemberUserAuthorizationKey is the
-- UserAuthorizationKey of the Group Member who completed
-- this stored procedure.
CREATE PROCEDURE [Project2].[Load Data]
   {\tt @GroupMemberUserAuthorizationKey\ int}
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   /***** Script for SelectTopNRows command from SSMS *****/
   PRINT 'insert your statements within the Begin\End block which is the equivalentof
the Java { \ }'
END;
GO
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load Data	
Uses	

Project2

[Project2].[Load_DimCustomer]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[Load DimCustomer]
@GroupMemberAuthorizationKey INT
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   DECLARE @StartingDateTime AS DATETIME2(7) = SYSDATETIME()
        , @EndingDateTime AS DATETIME2(7)
        , @RowCount AS INT
   INSERT INTO [CH01-01-Dimension].[DimCustomer](CustomerName, UserAuthorizationKey,
DateAdded, DateofLastUpdate)
   SELECT DISTINCT old.CustomerName, @GroupMemberAuthorizationKey, SYSDATETIME() AS
DateAdded, SYSDATETIME() AS DateofLastUpdate
   FROM [FileUpload].[OriginallyLoadedData] AS old
   SET @RowCount = (
           SELECT Count(*)
            FROM [CH01-01-DIMENSION].DimCustomer
   SET @EndingDateTime = SYSDATETIME();
EXEC Process.usp TrackWorkFlow
\verb§@UserAuthorizationKey = \verb§@GroupMemberAuthorizationKey \\
, @StartingDateTime = @StartingDateTime
,@EndingDateTime = @EndingDateTime
```

```
, @WorkFlowStepDescription = 'Load DimCustomer'
, @WorkFlowStepTableRowCount = @RowCount
END;
GO
```

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

Used By

[Project2].[Load_DimGender]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[Load DimGender]
@GroupMemberAuthorizationKey INT
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   DECLARE @CurrentDateTime datetime2 = SYSDATETIME(),
           @EndingDateTime datetime2,
           @RowCount INT
   INSERT INTO [CH01-01-Dimension].[DimGender] (Gender, GenderDescription , User-
AuthorizationKey, DateAdded, DateofLastUpdate)
   SELECT distinct old.Gender,GenderDescription =
   CASE Old.Gender
       WHEN 'M' THEN 'Male'
       ELSE 'Female'
   END
     @GroupMemberAuthorizationKey,
      SYSDATETIME() AS DateAdded,
      SYSDATETIME() AS DateofLastUpdate
   FROM [FileUpload].[OriginallyLoadedData] AS old
   SET @RowCount = (
           SELECT Count(*)
           FROM [CH01-01-Dimension].DimGender
   SET @EndingDateTime = SYSDATETIME();
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load_-DimGender

```
EXEC Process.usp_TrackWorkFlow

@UserAuthorizationKey = @GroupMemberAuthorizationKey

, @StartingDateTime = @CurrentDateTime

, @EndingDateTime = @EndingDateTime

, @WorkFlowStepDescription = 'Load DimGender'

, @WorkFlowStepTableRowCount = @RowCount

END
GO
```

Uses

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

Used By

[Project2].[Load_DimMaritalStatus]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[Load_DimMaritalStatus]
@GroupMemberAuthorizationKey INT
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   DECLARE @StartingDateTime AS DATETIME2(7) = SYSDATETIME()
        , @EndingDateTime AS DATETIME2(7)
        , @RowCount AS INT
   INSERT INTO [CH01-01-Dimension].[DimMaritalStatus]
    ( MaritalStatus ,
       MaritalStatusDescription,
    UserAuthorizationKey,
    DateAdded,
     DateofLastUpdate
   SELECT distinct old.MaritalStatus,
   MaritalStatusDescription =
   CASE Old.MaritalStatus
       WHEN 'S' THEN 'Single'
       ELSE 'Married'
   END
    ),
   @GroupMemberAuthorizationKey,
    SYSDATETIME() AS DATEADD,
     SYSDATETIME() AS DateofLastUpdate
```

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

Used By

[Project2].[Load_DimOccupation]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[Load DimOccupation] @UserAuthorizationKey INT
AS
BEGIN
   DECLARE @StartingDateTime AS DATETIME2(7) = SYSDATETIME()
      , @EndingDateTime AS DATETIME2(7)
        , @Rowcount AS INT
   SET NOCOUNT ON
   INSERT INTO [CH01-01-Dimension].[DimOccupation] (
       Occupation
        , UserAuthorizationKey
        , DateAdded
   SELECT DISTINCT Occupation
        , @UserAuthorizationKey
        , @StartingDateTime
   FROM FileUpload.OriginallyLoadedData
   SET @Rowcount = (
           SELECT Count(*)
           FROM [CH01-01-DIMENSION].[DimOccupation]
   SET @EndingDateTime = SYSDATETIME();
   EXEC Process.usp_TrackWorkFlow
        @UserAuthorizationKey = @UserAuthorizationKey
        , @WorkFlowStepDescription = 'Setting up the DimOccupation table using Load_Dim-
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load_DimOccupation

```
Occupation'
, @WorkFlowStepTableRowCount = @Rowcount
, @StartingDateTime = @StartingDateTime
, @EndingDateTime = @EndingDateTime

END;

GO
```

Uses

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

Used By

[Project2].[Load_DimOrderDate]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[Load DimOrderDate] @UserAuthorizationKey INT
AS
BEGIN
   DECLARE @StartingDateTime AS DATETIME2(7) = SYSDATETIME()
      , @EndingDateTime AS DATETIME2(7)
        , @Rowcount AS INT
   SET NOCOUNT ON
   INSERT INTO [CH01-01-Dimension].[DimOrderDate] (
       OrderDate
        , [MonthName]
        , MonthNumber
        , [Year]
        , UserAuthorizationKey
        , DateAdded
   SELECT DISTINCT loadedData.OrderDate
        , loadedData.[MonthName]
        , loadedData.MonthNumber
        , loadedData.[Year]
        , @UserAuthorizationKey
        , @StartingDateTime
   FROM FileUpload.OriginallyLoadedData AS loadedData
   SET @Rowcount = (
           SELECT Count(*)
            FROM [CH01-01-DIMENSION].[DimOrderDate]
```

```
SET @EndingDateTime = SYSDATETIME();

EXEC Process.usp_TrackWorkFlow
    @UserAuthorizationKey = @UserAuthorizationKey
    , @WorkFlowStepDescription = 'Setting up the DimOrderDate table using Load_Dim-OrderDate'

, @WorkFlowStepTableRowCount = @Rowcount
    , @StartingDateTime = @StartingDateTime
    , @EndingDateTime = @EndingDateTime

END;
```

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

Used By

[Project2].[Load_DimProduct]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[Load DimProduct]
@UserAuthorizationKey INT
AS
BEGIN
   DECLARE @StartingDateTime AS DATETIME2 = SYSDATETIME()
        , @EndingDateTime as DateTime2
        , @Rowcount AS INT
   SET NOCOUNT ON
   INSERT INTO [CH01-01-Dimension].[DimProduct] (
       ProductCategory
       , ProductName
        , ProductSubCategory
        , ProductSubCategorykey
        , ProductCode
        , ModelName
        , Color
        , UserAuthorizationKey
        , DateAdded
   SELECT DISTINCT loadedData.ProductCategory
        , loadedData.ProductName
        , loadedData.ProductSubcategory
        , subCategoryTable.ProductSubcategoryKey
        , loadedData.ProductCode
        , loadedData.ModelName
        , loadedData.Color
```

```
, @UserAuthorizationKey
        , @StartingDateTime
   FROM FileUpload.OriginallyLoadedData AS loadedData
   INNER JOIN[CH01-01-Dimension].[DimProductSubCategory] AS subCategoryTable
    ON loadedData.ProductSubCategory = subCategoryTable.ProductSubcategory
 SET @Rowcount = (
            SELECT Count(*)
            FROM [CH01-01-DIMENSION].[DimOrderDate]
   SET @EndingDateTime = SYSDATETIME();
   EXEC Process.usp TrackWorkFlow
       @UserAuthorizationKey = @UserAuthorizationKey
, @WorkFlowStepDescription = 'Setting up the DimProduct table using Load_Dim-Product'
        , @WorkFlowStepTableRowCount = @Rowcount
        , @StartingDateTime = @StartingDateTime
        , @EndingDateTime = @EndingDateTime
END;
GO
```

Uses

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

Used By

[Project2].[Load_DimProductCategory]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[Load DimProductCategory]
   @GroupMemberUserAuthorityKey INT
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @CurrentDateTime datetime2 = SYSDATETIME(),
       @EndingDateTime datetime2
        ,@RowCount AS INT;
   INSERT INTO [CH01-01-Dimension].[DimProductCategory]
   (ProductCategory, UserAuthorizationKey, DateAdded, DateOfLastUpdate)
   SELECT DISTINCT old.ProductCategory
   , @GroupMemberUserAuthorityKey
    , @CurrentDateTime
    , @CurrentDateTime
   from FileUpload.OriginallyLoadedData as old
   SET @RowCount = (
           SELECT Count(*)
            FROM [CH01-01-Dimension].DimProductCategory
   Set @EndingDateTime = SYSDATETIME();
   EXEC Process.usp TrackWorkFlow
    @UserAuthorizationKey = @GroupMemberUserAuthorityKey
    , @StartingDateTime = @CurrentDateTime
    ,@EndingDateTime = @EndingDateTime
    , @WorkFlowStepDescription = 'Load DimProductCategory'
    , @WorkFlowStepTableRowCount = @RowCount
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load_-DimProductCategory

END;		
GO		

Uses

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

Used By

[Project2].[Load_DimProductSubcategory]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[Load DimProductSubcategory]
   @GroupMemberUserAuthorityKey INT
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @CurrentDateTime datetime2 = SYSDATETIME(),
        @EndingDateTime datetime2,
        @RowCount INT;
   INSERT INTO [CH01-01-Dimension].[DimProductSubCategory]
    ( ProductCategoryKey, ProductSubCategory, UserAuthorizationKey, DateAdded, DateOf-
LastUpdate)
   SELECT DISTINCT new.ProductCategoryKey
   , old.ProductSubCategory
    , @GroupMemberUserAuthorityKey
    , @CurrentDateTime
    ,@CurrentDateTime
   FROM FileUpload.OriginallyLoadedData AS old
        INNER JOIN [CH01-01-Dimension].[DimProductCategory] AS new
           ON old.ProductCategory = new.ProductCategory
           Set @EndingDateTime = SYSDATETIME();
   SET @RowCount = (
           SELECT Count(*)
            FROM [CH01-01-Dimension].DimProductSubCategory
        ) ;
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load_-DimProductSubcategory

```
EXEC Process.usp_TrackWorkFlow

@UserAuthorizationKey = @GroupMemberUserAuthorityKey
, @StartingDateTime = @CurrentDateTime
, @EndingDateTime = @EndingDateTime
, @WorkFlowStepDescription = 'Load DimProductSubCategory'
, @WorkFlowStepTableRowCount = @RowCount
END;
GO
```

Uses

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

Used By

[Project2].[Load_DimTerritory]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE procedure [Project2].[Load_DimTerritory]
   @UserAuthorizationKey int
as
begin
   set nocount on;
   declare @CurrentTime datetime2 = SYSDATETIME(),
   @Rowcount as int,
   @EndingDateTime datetime2;
   insert into [CH01-01-Dimension].[DimTerritory]
        (TerritoryGroup, TerritoryCountry, TerritoryRegion,
       UserAuthorizationKey, DateAdded
   select distinct
       old.TerritoryGroup, old.TerritoryCountry, old.TerritoryRegion,
           @UserAuthorizationKey, @CurrentTime
   from FileUpload.originallyLoadedData as old
   Set @Rowcount=(select count(*) from [CH01-01-Dimension].[DimTerritory])
   Set @EndingDateTime = SYSDATETIME();
EXEC Process.usp_TrackWorkFlow
        @UserAuthorizationKey = @UserAuthorizationKey
        , @WorkFlowStepDescription = 'Load DimTerritory'
        , @WorkFlowStepTableRowCount = @Rowcount
        , @StartingDateTime = @CurrentTime
        , @EndingDateTime = @EndingDateTime
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load_DimTerritory

E	ND;	
G	0	

Uses

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

Used By

[Project2].[Load_SalesManagers]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE procedure [Project2].[Load_SalesManagers]
   @UserAuthorizationKey int
as
begin
   set nocount on;
   declare @StartingDateTime AS DATETIME2 = SYSDATETIME()
        , @EndingDateTime AS DATETIME2 = SYSDATETIME()
        , @Rowcount AS INT
   insert into [CH01-01-Dimension].[SalesManagers]
        (SalesManager, Category, UserAuthorizationKey, DateAdded
   select distinct SalesManager, ProductCategory,@UserAuthorizationKey, @StartingDate-
   from FileUpload.OriginallyLoadedData
   SET @RowCount = (
           SELECT Count(*)
            FROM [CH01-01-Dimension].SalesManagers
   SET @EndingDateTime = SYSDATETIME();
EXEC Process.usp TrackWorkFlow
       @UserAuthorizationKey = @UserAuthorizationKey
        , @WorkFlowStepDescription = 'Load SalesManager'
        , @WorkFlowStepTableRowCount = @Rowcount
        , @StartingDateTime = @StartingDateTime
        , @EndingDateTime = @EndingDateTime
END;
GO
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load_SalesManagers

Uses

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

Used By

[Project2].[LoadData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[LoadData] @UserAuthorizationKey INT
AS
BEGIN
   DECLARE @StartingDateTime AS DATETIME2(7) = SYSDATETIME()
        , @EndingDateTime AS DATETIME2(7)
        , @RowCount AS INT
   SET NOCOUNT ON
   INSERT INTO [CH01-01-Fact].Data
             [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
        , DateAdded
        , DateOfLastUpdate
SELECT top(1000)
     chsm.[SalesManagerKey]
    , chdo.[OccupationKey]
    , chdt.[TerritoryKey]
    , chdp.[ProductKey]
    , chdc.[CustomerKey]
    , orld.[ProductCategory]
    , orld.[SalesManager]
    , orld.[ProductSubcategory]
    , orld.[ProductCode]
    , orld.[ProductName]
    , orld.[Color]
    , orld.[ModelName]
    , orld.[OrderQuantity]
    , orld.[UnitPrice]
    , orld.[ProductStandardCost]
    , orld.[SalesAmount]
    , orld.[OrderDate]
    , orld.[MonthName]
    , orld.[MonthNumber]
    , orld.[Year]
    , orld.[CustomerName]
    , orld. [MaritalStatus]
    , orld.[Gender]
    , orld.[Education]
    , orld.[Occupation]
    , orld.[TerritoryRegion]
    , orld.[TerritoryCountry]
    , orld.[TerritoryGroup]
    , @UserAuthorizationKey
    , @StartingDateTime
    , @EndingDateTime
FROM FileUpload.OriginallyLoadedData AS orld
    INNER JOIN [CH01-01-Dimension].DimProduct AS chdp
        ON chdp.ProductName = orld.ProductName
    INNER JOIN [CH01-01-Dimension].DimTerritory AS chdt
        ON chdt.TerritoryGroup = orld.TerritoryGroup
```

```
AND chdt.TerritoryCountry = orld.TerritoryCountry
            AND chdt.TerritoryRegion = orld.TerritoryRegion
        INNER JOIN [CH01-01-Dimension].DimCustomer AS chdc
           ON chdc.CustomerName = orld.CustomerName
        INNER JOIN [CH01-01-Dimension]. SalesManagers AS chsm
           ON chsm.SalesManager = orld.SalesManager
        INNER JOIN [CH01-01-Dimension].DimOccupation AS chdo
           ON chdo.Occupation = orld.Occupation
   SET @RowCount = (
           SELECT Count(*)
            FROM [CH01-01-Fact].Data
   SET @EndingDateTime = SYSDATETIME();
   EXEC Process.usp TrackWorkFlow
       @UserAuthorizationKey = @UserAuthorizationKey
        , @WorkFlowStepDescription = 'Loading original data back into the Fact table'
        , @WorkFlowStepTableRowCount = @RowCount
        , @StartingDateTime = @StartingDateTime
        , @EndingDateTime = @EndingDateTime
END
GO
```

Uses

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

Used By

[Project2].[LoadDimProduct]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
Create PROCEDURE [Project2].[LoadDimProduct]
@UserAuthorizationKey INT
AS
BEGIN
   DECLARE @StartingDateTime AS DATETIME2(7) = SYSDATETIME()
        , @EndingDateTime AS DATETIME2(7) = SYSDATETIME()
   SET NOCOUNT ON
   INSERT INTO [CH01-01-Dimension].[DimProduct] (
       ProductName
       , ProductCategory
        , ProductSubCategory
        , ProductSubCategorykey
        , ProductCode
        , ModelName
        , Color
        , UserAuthorizationKey
        , DateAdded
   SELECT DISTINCT loadedData.ProductCategory
        , loadedData.ProductName
        , loadedData.ProductSubcategory
        , subCategoryTable.ProductSubcategoryKey
        , loadedData.ModelName
        , loadedData.ProductCode
        , loadedData.Color
        , @UserAuthorizationKey
```

```
, @StartingDateTime
FROM FileUpload.OriginallyLoadedData AS loadedData
INNER JOIN [CH01-01-DIMENSION].DimProductSubcategory AS subCategoryTable
ON loadedData.ProductSubCategory = subCategoryTable.ProductSubcategory

SET @EndingDateTime = SYSDATETIME();

EXEC Process.usp_TrackWorkFlow
    @UserAuthorizationKey = @UserAuthorizationKey
    , @WorkFlowStepDescription = 'Setting up the DimProduct table using Load_Dim-Product'
    , @WorkFlowStepTableRowCount = @@Rowcount
    , @StartingDateTime = @StartingDateTime
    , @EndingDateTime = @EndingDateTime
END;
```

Uses

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

[Project2].[LoadDimTerritory]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE procedure [Project2].[LoadDimTerritory]
   @UserAuthorizationKey int
as
begin
   set nocount on;
   declare @CurrentTime datetime2 = SYSDATETIME()--,
   -- @EndingDateTime DATETIME2
   insert into [CH01-01-Dimension].[DimTerritory]
        (TerritoryGroup, TerritoryCountry, TerritoryRegion,
       UserAuthorizationKey, DateAdded
   select distinct
       old.TerritoryGroup, old.TerritoryCountry, old.TerritoryRegion,
            @UserAuthorizationKey, @CurrentTime
   from FileUpload.originallyLoadedData as old
   -- SET @EndingDateTime = SYSDATETIME();
EXEC Process.usp TrackWorkFlow
        @UserAuthorizationKey = @UserAuthorizationKey
        , @WorkFlowStepDescription = 'Load DimTerritory'
        , @WorkFlowStepTableRowCount = @@Rowcount
        , @StartingDateTime = @CurrentTime
        , @EndingDateTime =@CurrentTime --@EndingDateTime
END:
GO
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.LoadDim-Territory

Uses

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

[Project2].[LoadSalesManagers]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
create procedure [Project2].[LoadSalesManagers]
   @UserAuthorizationKey int
as
begin
   set nocount on;
   declare @CurrentTime datetime2 = SYSDATETIME();
   insert into [CH01-01-Dimension].[SalesManagers]
       (SalesManager, Category, UserAuthorizationKey, DateAdded
   select distinct orig.SalesManager, orig.ProductCategory,@UserAuthorizationKey,
@CurrentTime
   from FileUpload.OriginallyLoadedData as orig
EXEC Process.usp TrackWorkFlow
        @UserAuthorizationKey = @UserAuthorizationKey
        , @WorkFlowStepDescription = 'Load SalesManager'
        , @WorkFlowStepTableRowCount = @@Rowcount
        , @StartingDateTime = @CurrentTime
        , @EndingDateTime = @CurrentTime
END;
GO
```

Uses

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

[Project2].[LoadStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project2].[LoadStarSchemaData]
   @GroupMemberUserAuthorityKey INT
AS
BEGIN
   SET NOCOUNT ON;
   declare @StartingDateTime AS DATETIME2 = SYSDATETIME()
        , @EndingDateTime AS DATETIME2 = SYSDATETIME()
        , @Rowcount AS INT
   exec Project2.RestartSequence 2;
   -- Drop foreign keys before truncation
   exec [Project2].[DropForeignKeysFromStarSchemaData] 4; --Ishraq
   -- Truncate all data
   exec Project2.TruncateStarSchemaData 5; -- Ben
   -- Load all the data into their respective tables
   exec [Project2].[Load DimTerritory] 1 ; --Xihao
   exec [Project2].[Load SalesManagers] 1 ; --Xihao
   exec [Project2].[Load DimProductCategory] 2 ; --Trisha
   exec [Project2].[Load DimProductSubcategory] 2; --Trisha
   exec [Project2].[Load DimOccupation] 3 ; --Patryck
   exec [Project2].[Load_DimOrderDate] 3 ; --Patryck
   exec [Project2].[Load DimProduct] 3; --Patryck
   exec [Project2].[Load DimGender] 4 ; --Ishraq
   exec [Project2].[Load DimMaritalStatus] 4; --Ishraq
   exec [Project2].[Load_DimCustomer] 4 ; --Ishraq
   exec [Project2].[LoadData] 5; --Ben
```

Uses

```
[CH01-01-Dimension].[DimOrderDate]
[Process].[usp TrackWorkFlow]
[Project2].[AddForeignKeysToStarSchemaData]
[Project2].[DropForeignKeysFromStarSchemaData]
[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].[LoadData]
[Project2].[RestartSequence]
[Project2].[TruncateStarSchemaData]
Project2
```

[Project2].[RestartSequence]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
Create PROCEDURE [Project2].[RestartSequence]
    @GroupMemberUserAuthorityKey INT
AS
BEGIN
   SET NOCOUNT ON;
DECLARE @CurrentDateTime datetime2 = SYSDATETIME(),
        @EndingDateTime datetime2;
TRUNCATE TABLE Process.WorkFlowSteps;
alter sequence PkSequence.WorkflowStepsSequenceObject
RESTART with 1;
alter SEQUENCE [PKSequence].[DimProductCategorySequenceObject]
RESTART with 1;
alter SEQUENCE [PKSequence].[DimProductSubCategorySequenceObject]
RESTART with 1;
alter SEQUENCE PkSequence.DimCustomerSequenceObject
RESTART with 1;
alter SEQUENCE PkSequence.DimOccupationSequenceObject
RESTART with 1;
alter SEQUENCE PkSequence.DimProductSequenceObject
RESTART with 1;
alter SEQUENCE PkSequence.DimTerritorySequenceObject
RESTART with 1;
alter SEQUENCE PkSequence.DataSequenceObject
RESTART with 1;
alter SEQUENCE PkSequence.SalesManagersSequenceObject
RESTART with 1;
Set @EndingDateTime = SYSDATETIME();
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Restart-Sequence

```
EXEC Process.usp_TrackWorkFlow
   @UserAuthorizationKey = @GroupMemberUserAuthorityKey
   , @StartingDateTime = @CurrentDateTime
   ,@EndingDateTime = @EndingDateTime
   , @WorkFlowStepDescription = 'Restart Sequence'
   , @WorkFlowStepTableRowCount = @@RowCount
end;
GO
```

Uses

[Process].[WorkFlowSteps]
[Process].[usp_TrackWorkFlow]
Project2

Used By

[Project2].[ShowTableStatusRowCount]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
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
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Show-TableStatusRowCount

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

[Project2].[TruncateStarSchemaData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
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 @CurrentDateTime datetime2 = SYSDATETIME(),
        @EndingDateTime datetime2;
    -- Start of dropping tables --
   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].[DimProductCategory];
   TRUNCATE TABLE [CH01-01-Dimension].[DimProductSubCategory];
   TRUNCATE TABLE [CH01-01-Dimension].DimTerritory;
   TRUNCATE TABLE [CH01-01-Dimension].SalesManagers;
   TRUNCATE TABLE [CH01-01-Fact].Data;
Set @EndingDateTime = SYSDATETIME();
EXEC Process.usp_TrackWorkFlow
     {\tt @UserAuthorizationKey} = {\tt @GroupMemberUserAuthorizationKey}
```

```
, @StartingDateTime = @CurrentDateTime
, @EndingDateTime = @EndingDateTime
, @WorkFlowStepDescription = 'Truncate all table'
, @WorkFlowStepTableRowCount = @@RowCount
end;
GO
```

Uses

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

Used By

[Utils].[DropProcsInCSCl331FinalProject]

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

```
-- 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
```

Project > 10.0.2.2, 12001 > User databases > BIClass > Programmability > Functions > Scalar-valued Functions > Utils.CalculateDataTypeByteStorage

```
, 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
```

Uses

Utils

Sequences

Objects

Name
PkSequence.DataSequenceObject
PkSequence.DimCustomerSequenceObject
PkSequence.DimOccupationSequenceObject
PkSequence.DimProductCategorySequenceObject
PkSequence.DimProductSequenceObject
PkSequence.DimProductSubCategorySequenceObject
PkSequence.DimTerritorySequenceObject
PkSequence.ProductSequenceObject
PkSequence.SalesManagersSequenceObject
PkSequence.UserAuthorizationSequenceObject
PkSequence.WorkflowStepsSequenceObject

[PkSequence].[DataSequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

```
CREATE SEQUENCE [PkSequence].[DataSequenceObject]

AS int

START WITH 1

INCREMENT BY 1

MINVALUE 1

MAXVALUE 2147483647

NO CYCLE

CACHE

GO
```

Uses

[PkSequence].[DimCustomerSequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

[PkSequence].[DimOccupationSequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

[PkSequence].[DimProductCategorySequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

[PkSequence].[DimProductSequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

[PkSequence].[DimProductSubCategorySequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

[PkSequence].[DimTerritorySequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

```
CREATE SEQUENCE [PkSequence].[DimTerritorySequenceObject]

AS int

START WITH 1

INCREMENT BY 1

MINVALUE 1

MAXVALUE 2147483647

NO CYCLE

CACHE

GO
```

Uses

[PkSequence].[ProductSequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

[PkSequence].[SalesManagersSequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

[PkSequence].[UserAuthorizationSequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses

[PkSequence].[WorkflowStepsSequenceObject]

Properties

Property	Value
Owner	PkSequence

SQL Script

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

Uses



Objects

Name	
dbo	
EC3\RedgateBackup	
EC3\thehitman	
guest	
rheller	



Property	Value
Туре	SqlUser
Login Name	sa
Default Schema	dbo

Database Level Permissions

Туре	Action
CONNECT	Grant

SQL Script

GO



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

Database Level Permissions

Туре	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
```



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

Database Level Permissions

Туре	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
```



Property	Value
Туре	SqlUser
Default Schema	guest

SQL Script

GO	



Property	Value
Туре	SqlUser
Default Schema	dbo

Database Level Permissions

Туре	Action
CONNECT	Grant

SQL Script

CREATE USER [rheller] WITHOUT LOGIN GO

La Database Roles

Objects

lame
lb_accessadmin
lb_backupoperator
lb_datareader
lb_datawriter
lb_ddladmin
lb_denydatareader
lb_denydatawriter
lb_owner
lb_securityadmin
public

db_accessadmin

Properties

Property	Value
Owner	dbo

db_backupoperator

Properties

Duamanti	V-I
Property	Value

Owner	dbo
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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

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

Property	Value
Owner	dbo

△ Schemas

Objects

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

△ CH01-01-Dimension

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[CH01-01-Dimension].[DimCustomer]

[CH01-01-Dimension].[DimGender]

[CH01-01-Dimension].[DimMaritalStatus]

[CH01-01-Dimension].[DimOccupation]

[CH01-01-Dimension].[DimOrderDate]

[CH01-01-Dimension].[DimProduct]

[CH01-01-Dimension].[DimProductCategory]

[CH01-01-Dimension].[DimProductSubCategory]

[CH01-01-Dimension].[DimTerritory]

[CH01-01-Dimension].[SalesManagers]

△ CH01-01-Fact

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[CH01-01-Fact].[Data]

♣ DbSecurity

Properties

Property	Value
Owner	dbo

SQL Script

CREATE SCHEMA [DbSecurity]
AUTHORIZATION [dbo]
GO

Used By

[DbSecurity].[UserAuthorization]

♣ FileUpload

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

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

△ PkSequence

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[PkSequence].[DataSequenceObject]

[PkSequence]. [DimCustomerSequenceObject]

[PkSequence].[DimOccupationSequenceObject]

[PkSequence].[DimProductCategorySequenceObject]

[PkSequence].[DimProductSequenceObject]

[PkSequence].[DimProductSubCategorySequenceObject]

[PkSequence].[DimTerritorySequenceObject]

[PkSequence].[ProductSequenceObject]

[PkSequence].[SalesManagersSequenceObject]

[PkSequence]. [User Authorization Sequence Object]

[PkSequence].[WorkflowStepsSequenceObject]

⚠ Process

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[Process].[WorkFlowSteps]

[Process].[CalculateTimeSpentByEachMember]

[Process].[usp_CalculateTimeSpentAtEachStep]

[Process].[usp_TrackWorkFlow]

△ Project2

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[Project2].[AddForeignKeysToStarSchemaData]

[Project2].[DropForeignKeysFromStarSchemaData]

[Project2].[Load_Data]

[Project2].[Load_DimCustomer]

[Project2].[Load_DimGender]

[Project2].[Load_DimMaritalStatus]

[Project2].[Load_DimOccupation]

[Project2].[Load_DimOrderDate]

[Project2].[Load_DimProduct]

[Project2].[Load_DimProductCategory]

[Project2].[Load_DimProductSubcategory]

[Project2].[Load_DimTerritory]

 $[Project 2]. [Load_Sales Managers] \\$

[Project2].[LoadData]

[Project2].[LoadDimProduct]

[Project2].[LoadDimTerritory]

[Project2].[LoadSalesManagers]

[Project2].[LoadStarSchemaData]

[Project2].[RestartSequence]

[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]