# localhost, 13001 Documentation

# **BIClass**

Server localhost,13001

Author carlo

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# **Iocalhost,13001**

## Databases (1)

## ■ BIClass

## **Server Properties**

| Property        | Value                        |  |  |
|-----------------|------------------------------|--|--|
| Product         | Microsoft SQL Server         |  |  |
| Version         | 15.0.4345.5                  |  |  |
| Language        | English                      |  |  |
| Platform        | NT x64                       |  |  |
| Edition         | Developer Edition (64-bit)   |  |  |
| Engine Edition  | 3 (Enterprise)               |  |  |
| Processors      | 20                           |  |  |
| OS Version      | 6.2 (9200)                   |  |  |
| Physical Memory | 12720                        |  |  |
| Is Clustered    | False                        |  |  |
| Root Directory  | C:\                          |  |  |
| Collation       | SQL_Latin1_General_CP1_CI_AS |  |  |

## Server Settings

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

## **Advanced Server Settings**

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

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

| □ User databases |  |
|------------------|--|
|------------------|--|

Databases (1)

■ BIClass

## **∃ BIClass Database**

## **Database Properties**

| Property                      | Value           |
|-------------------------------|-----------------|
| SQL Server Version            | SqlServer2019   |
| Compatibility Level           | SQL Server 2014 |
| Last backup time              | 10/29/2020      |
| Last log backup time          | -               |
| Creation date                 | Apr 13 2024     |
| Users                         | 7               |
| Database Encryption Enabled   | False           |
| Database Encryption Algorithm | None            |
| Database size                 | 135.13 MB       |
| Unallocated space             | 49.32 MB        |

## **Database Options**

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

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

## Files

| Name        | Туре | Size     | Maxsize    | Autogrowth    | File Name                          |
|-------------|------|----------|------------|---------------|------------------------------------|
| BIClass     | Data | 67.00 MB | unlimited  | 1.00 MB       | /var/opt/mssql/data/BIClass.mdf    |
| BIClass_log | Log  | 68.13 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 (~) | 0                                 |  |
| Created       | 1:29:04 AM Sunday, April 14, 2024 |  |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |  |

#### Columns

| Key                | Name                 | Data Type   | Max Length (Bytes) | Nullability  | Default   |
|--------------------|----------------------|-------------|--------------------|--------------|---|
| ₽ <mark>%</mark> G | CustomerKey          | int         | 4                  | NOT NULL     | (NEXT VALUE FOR [Pk-<br>Sequence].[DimCustomer-<br>SequenceObject]) |
|                    | CustomerName         | varchar(30) | 30                 | NULL allowed |   |
|                    | UserAuthorizationKey | int         | 4                  | NULL allowed |   |
|                    | DateAdded            | datetime2   | 8                  | NULL allowed | (sysdatetime())   |
|                    | DateOfLastUpdate     | datetime2   | 8                  | NULL allowed | (sysdatetime())   |

#### Indexes

| Key | y Name                     |             | Unique |
|-----|----------------------------|-------------|--------|
| PK  | PKDimCusto95011E6452BCF41C | CustomerKey | True   |

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

(
[CustomerKey] [int] NOT NULL CONSTRAINT [DF_DimCustom_Custo_42ACE4D4] DEFAULT (NEXT VALUE FOR [PkSequence].[DimCustomerSequenceObject]),

[CustomerName] [varchar] (30) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[UserAuthorizationKey] [int] NULL,

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

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

) ON [PRIMARY]

GO

ALTER TABLE [CH01-01-Dimension].[DimCustomer] ADD CONSTRAINT [PK__DimCusto__95011E6452BCF41C]

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

GO
```

CH01-01-Dimension

## Used By

[CH01-01-Fact].[Data] [Project2].[Load\_Data] [Project2].[Load\_DimCustomer] [Project2].[ShowTableStatusRowCount]

## [CH01-01-Dimension].[DimGender]

#### **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Collation     | SQL_Latin1_General_CP1_CI_AS      |
| Row Count (~) | 0                                 |
| Created       | 2:11:53 AM Sunday, April 14, 2024 |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |

#### Columns

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

#### Indexes

| Key      | Name         | Key Columns | Unique |
|----------|--------------|-------------|--------|
| PKP<br>C | PK_DimGender | Gender      | True   |

```
CREATE TABLE [CH01-01-Dimension].[DimGender]
[Gender] [char] (1) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[GenderDescription] [varchar] (6) COLLATE SQL Latin1 General CP1 CI AS NOT NULL,
[UserAuthorizationKey] [int] NULL CONSTRAINT [DF_DimGender_UserAuthorizationKey] DEFAULT ((1)),
[DateAdded] [datetime2] NULL CONSTRAINT [DF_DimGender_DateAdded] DEFAULT (sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF DimGender DateOfLastUpdate] DEFAULT
(sysdatetime())
) ON [PRIMARY]
ALTER TABLE [CH01-01-Dimension].[DimGender] ADD CONSTRAINT [PK DimGender] PRIMARY KEY CLUSTERED
([Gender]) ON [PRIMARY]
```

Project > localhost,13001 > User databases > BIClass > Tables > CH01-01-Dimension.DimGender

#### Uses

CH01-01-Dimension

## **Used By**

[CH01-01-Fact].[Data]
[Project2].[Load\_Data]
[Project2].[Load\_DimGender]
[Project2].[ShowTableStatusRowCount]
[Project2].[TruncateStarSchemaData]

## [CH01-01-Dimension].[DimMaritalStatus]

#### **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Collation     | SQL_Latin1_General_CP1_CI_AS      |
| Row Count (~) | 0                                 |
| Created       | 2:12:41 AM Sunday, April 14, 2024 |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |

#### Columns

| Key      | Name                     | Data Type  | Max Length (Bytes) | Nullability  | Default         |
|----------|--------------------------|------------|--------------------|--------------|-----------------|
| PKP<br>C | MaritalStatus            | char(1)    | 1                  | NOT NULL     |                 |
|          | MaritalStatusDescription | varchar(7) | 7                  | NOT NULL     |                 |
|          | UserAuthorizationKey     | int        | 4                  | NULL allowed | ((1))           |
|          | DateAdded                | datetime2  | 8                  | NULL allowed | (sysdatetime()) |
|          | DateOfLastUpdate         | datetime2  | 8                  | NULL allowed | (sysdatetime()) |

#### Indexes

| Key      | Name                | Key Columns   | Unique |
|----------|---------------------|---------------|--------|
| PKP<br>C | PK_DimMaritalStatus | 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,
[User Authorization Key] \ [int] \ NULL \ CONSTRAINT \ [DF\_DimMarital Status\_User Authorization Key] \ DEFAULT
[DateAdded] [datetime2] NULL CONSTRAINT [DF_DimMaritalStatus_DateAdded] DEFAULT (sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF DimMaritalStatus DateOfLastUpdate] DEFAULT
(sysdatetime())
) ON [PRIMARY]
ALTER TABLE [CH01-01-Dimension].[DimMaritalStatus] ADD CONSTRAINT [PK DimMaritalStatus] PRIMARY
KEY CLUSTERED ([MaritalStatus]) ON [PRIMARY]
GO
```

Project > localhost,13001 > User databases > BIClass > Tables > CH01-01-Dimension.DimMaritalStatus

#### Uses

CH01-01-Dimension

## **Used By**

[CH01-01-Fact].[Data] [Project2].[Load\_Data] [Project2].[Load\_DimMaritalStatus]

[Project 2]. [Show Table Status Row Count]

[Project2].[TruncateStarSchemaData]

## [CH01-01-Dimension].[DimOccupation]

#### **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Collation     | SQL_Latin1_General_CP1_CI_AS      |
| Row Count (~) | 0                                 |
| Created       | 2:13:39 AM Sunday, April 14, 2024 |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |

#### Columns

| Key | Name                 | Data Type   | Max Length (Bytes) | Nullability  | Default   |
|-----|----------------------|-------------|--------------------|--------------|---|
| PKG | OccupationKey        | int         | 4                  | NOT NULL     | (NEXT VALUE FOR [Pk-<br>Sequence].[DimOccupation-<br>SequenceObject]) |
|     | Occupation           | varchar(20) | 20                 | NULL allowed |   |
|     | UserAuthorizationKey | int         | 4                  | NULL allowed |   |
|     | DateAdded            | datetime2   | 8                  | NULL allowed | (sysdatetime())   |
|     | DateOfLastUpdate     | datetime2   | 8                  | NULL allowed | (sysdatetime())   |

#### Indexes

| Key | Name             | Key Columns   | Unique |
|-----|------------------|---------------|--------|
| PK  | PK_DimOccupation | OccupationKey | True   |

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

(
[OccupationKey] [int] NOT NULL CONSTRAINT [DF_DimOccupa_Occup__5D60DB10] DEFAULT (NEXT VALUE FOR [PkSequence].[DimOccupationSequenceObject]),

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

[UserAuthorizationKey] [int] NULL,

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

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

) ON [PRIMARY]

GO

ALTER TABLE [CH01-01-Dimension].[DimOccupation] ADD CONSTRAINT [PK_DimOccupation] PRIMARY KEY CLUSTERED ([OccupationKey]) ON [PRIMARY]

GO
```

CH01-01-Dimension

## Used By

[CH01-01-Fact].[Data]
[Project2].[Load\_Data]
[Project2].[Load\_DimOccupation]
[Project2].[ShowTableStatusRowCount]

[Project2].[TruncateStarSchemaData]

## [CH01-01-Dimension].[DimOrderDate]

#### **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Collation     | SQL_Latin1_General_CP1_CI_AS      |
| Row Count (~) | 0                                 |
| Created       | 2:14:18 AM Sunday, April 14, 2024 |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |

#### Columns

| Key  | Name                 | Data Type   | Max Length (Bytes) | Nullability  | Default         |
|------|----------------------|-------------|--------------------|--------------|-----------------|
| PK C | OrderDate            | date        | 3                  | NOT NULL     |                 |
|      | MonthName            | varchar(10) | 10                 | NULL allowed |                 |
|      | MonthNumber          | int         | 4                  | NULL allowed |                 |
|      | Year                 | int         | 4                  | NULL allowed |                 |
|      | UserAuthorizationKey | int         | 4                  | NULL allowed | ((1))           |
|      | DateAdded            | datetime2   | 8                  | NULL allowed | (sysdatetime()) |
|      | DateOfLastUpdate     | datetime2   | 8                  | NULL allowed | (sysdatetime()) |

#### Indexes

| Key | Name              | Key Columns | Unique |
|-----|-------------------|-------------|--------|
| PK  | PK_DimOrderDate_1 | OrderDate   | True   |

```
CREATE TABLE [CH01-01-Dimension].[DimOrderDate]
[OrderDate] [date] NOT NULL,
[MonthName] [varchar] (10) COLLATE SQL Latin1 General CP1 CI AS NULL,
[MonthNumber] [int] NULL,
[Year] [int] NULL,
[UserAuthorizationKey] [int] NULL CONSTRAINT [DF_DimOrderDate_UserAuthorizationKey] DEFAULT
[DateAdded] [datetime2] NULL CONSTRAINT [DF_DimOrderDate_DateAdded] DEFAULT (sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF_DimOrderDate_DateOfLastUpdate] DEFAULT
(sysdatetime())
) ON [PRIMARY]
ALTER TABLE [CH01-01-Dimension].[DimOrderDate] ADD CONSTRAINT [PK DimOrderDate 1] PRIMARY KEY
```

```
CLUSTERED ([OrderDate]) ON [PRIMARY]

GO
```

CH01-01-Dimension

#### **Used By**

[CH01-01-Fact].[Data]
[Project2].[Load\_Data]
[Project2].[Load\_DimOrderDate]
[Project2].[ShowTableStatusRowCount]
[Project2].[TruncateStarSchemaData]

# [CH01-01-Dimension].[DimProduct]

## **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Collation     | SQL_Latin1_General_CP1_CI_AS      |
| Row Count (~) | 0                                 |
| Created       | 3:34:23 AM Sunday, April 14, 2024 |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |

## Columns

| Key                 | Name                  | Data Type   | Max Length (Bytes) | Nullability  | Default  |
|---------------------|-----------------------|-------------|--------------------|--------------|--|
| PK <mark>P</mark> C | ProductKey            | int         | 4                  | NOT NULL     | (NEXT VALUE FOR [Pk-<br>Sequence].[DimProduct-<br>SequenceObject]) |
| FK                  | ProductSubcategoryKey | int         | 4                  | NULL allowed |  |
|                     | ProductCategory       | varchar(20) | 20                 | NULL allowed |  |
|                     | ProductSubcategory    | varchar(20) | 20                 | NULL allowed |  |
|                     | ProductCode           | varchar(10) | 10                 | NULL allowed |  |
|                     | ProductName           | varchar(40) | 40                 | NULL allowed |  |
|                     | Color                 | varchar(10) | 10                 | NULL allowed |  |
|                     | ModelName             | varchar(30) | 30                 | NULL allowed |  |
|                     | UserAuthorizationKey  | int         | 4                  | NULL allowed |  |
|                     | DateAdded             | datetime2   | 8                  | NULL allowed | (sysdatetime())  |
|                     | DateOfLastUpdate      | datetime2   | 8                  | NULL allowed | (sysdatetime())  |

## Indexes

| Key         | Name                       | Key Columns | Unique |
|-------------|----------------------------|-------------|--------|
| PK <b>P</b> | PKDimProduA15E99B3E27177EF | ProductKey  | True   |

## Foreign Keys

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

#### **SQL Script**

```
CREATE TABLE [CH01-01-Dimension].[DimProduct]
[ProductKey] [int] NOT NULL CONSTRAINT [DF DimProduc Produ 10E07F16] DEFAULT (NEXT VALUE FOR
[PkSequence].[DimProductSequenceObject]),
[ProductSubcategoryKey] [int] NULL,
[ProductCategory] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductSubcategory] [varchar] (20) COLLATE SQL Latin1 General CP1 CI AS NULL,
[ProductCode] [varchar] (10) COLLATE SQL Latin1 General CP1 CI AS NULL,
[ProductName] [varchar] (40) COLLATE SQL Latin1 General CP1 CI AS NULL,
[Color] [varchar] (10) COLLATE SQL Latin1 General CP1 CI AS NULL,
[ModelName] [varchar] (30) COLLATE SQL Latin1 General CP1 CI AS NULL,
[UserAuthorizationKey] [int] NULL,
[DateAdded] [datetime2] NULL CONSTRAINT [DF_DimProduct_DateAdded] DEFAULT (sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF DimProduct DateOfLastUpdate] DEFAULT
(sysdatetime())
) ON [PRIMARY]
ALTER TABLE [CH01-01-Dimension].[DimProduct] ADD CONSTRAINT [PK DimProdu A15E99B3E27177EF]
PRIMARY KEY CLUSTERED ([ProductKey]) ON [PRIMARY]
ALTER TABLE [CH01-01-Dimension].[DimProduct] ADD CONSTRAINT [FK DimProduct DimProductSubcategory]
FOREIGN KEY ([ProductSubcategoryKey]) REFERENCES [CH01-01-Dimension].[DimProductSubcategory]
([ProductSubcategoryKey])
```

#### Uses

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

#### **Used By**

[CH01-01-Fact].[Data]
[Project2].[Load\_Data]
[Project2].[Load\_DimProduct]
[Project2].[ShowTableStatusRowCount]
[Project2].[TruncateStarSchemaData]

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

#### **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Row Count (~) | 0                                 |
| Created       | 3:33:33 AM Sunday, April 14, 2024 |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |

#### Columns

| Key | Name                 | Data Type | Max Length (Bytes) | Nullability  | Default  |
|-----|----------------------|-----------|--------------------|--------------|--|
| P₩  | ProductCategoryKey   | int       | 4                  | NOT NULL     | (NEXT VALUE FOR [Pk-<br>Sequence].[DimProductCategory-<br>SequenceObject]) |
|     | UserAuthorizationKey | int       | 4                  | NULL allowed |  |
|     | DateAdded            | datetime2 | 8                  | NULL allowed | (sysdatetime())  |
|     | DateOfLastUpdate     | datetime2 | 8                  | NULL allowed | (sysdatetime())  |

#### Indexes

| Key  | Name                  | Key Columns        | Unique |
|------|-----------------------|--------------------|--------|
| PK C | PK_DimProductCategory | ProductCategoryKey | True   |

```
CREATE TABLE [CH01-01-Dimension].[DimProductCategory]
[ProductCategoryKey] [int] NOT NULL CONSTRAINT [DF DimProduc Produ 047AA831] DEFAULT (NEXT
VALUE FOR [PkSequence].[DimProductCategorySequenceObject]),
[UserAuthorizationKey] [int] NULL,
[DateAdded] [datetime2] NULL CONSTRAINT [DF DimProductCategory DateAdded] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF DimProductCategory DateOfLastUpdate] DEFAULT
(sysdatetime())
) ON [PRIMARY]
ALTER TABLE [CH01-01-Dimension].[DimProductCategory] ADD CONSTRAINT [PK DimProductCategory]
PRIMARY KEY CLUSTERED ([ProductCategoryKey]) ON [PRIMARY]
GO
```

#### CH01-01-Dimension

#### **Used By**

[CH01-01-Dimension].[DimProductSubcategory]

[CH01-01-Fact].[Data]

[Project2].[Load\_Data]

[Project2].[Load\_DimProduct]

[Project2].[Load\_DimProductCategory]

[Project2].[Load\_DimProductSubcategory]

[Project2].[ShowTableStatusRowCount]

[Project2].[TruncateStarSchemaData]

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

#### **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Collation     | SQL_Latin1_General_CP1_CI_AS      |
| Row Count (~) | 0                                 |
| Created       | 3:33:45 AM Sunday, April 14, 2024 |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |

#### Columns

| Key | Name                  | Data Type   | Max Length (Bytes) | Nullability  | Default   |
|-----|-----------------------|-------------|--------------------|--------------|---|
| P⊁C | ProductSubcategoryKey | int         | 4                  | NOT NULL     | (NEXT VALUE FOR [Pk-<br>Sequence].[DimProduct-<br>SubcategorySequenceObject]) |
| FK  | ProductCategoryKey    | int         | 4                  | NOT NULL     |   |
|     | SubcategoryName       | varchar(50) | 50                 | NOT NULL     |   |
|     | UserAuthorizationKey  | int         | 4                  | NULL allowed |   |
|     | DateAdded             | datetime2   | 8                  | NULL allowed | (sysdatetime())   |
|     | DateOfLastUpdate      | datetime2   | 8                  | NULL allowed | (sysdatetime())   |

#### Indexes

| Key  | Name                     | Key Columns           | Unique |
|------|--------------------------|-----------------------|--------|
| PK C | PK_DimProductSubcategory | 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__0B27A5C0] DEFAULT (NEXT
VALUE FOR [PkSequence].[DimProductSubcategorySequenceObject]),
[ProductCategoryKey] [int] NOT NULL,
[SubcategoryName] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
```

```
[UserAuthorizationKey] [int] NULL,

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

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

ON [PRIMARY]

GO

ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] ADD CONSTRAINT [PK_DimProductSubcategory] PRIMARY KEY CLUSTERED ([ProductSubcategoryKey]) ON [PRIMARY]

GO

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

 $[CH01\hbox{-}01\hbox{-}Dimension]. [DimProductCategory]$ 

CH01-01-Dimension

#### **Used By**

[CH01-01-Dimension].[DimProduct]

[CH01-01-Fact].[Data]

[Project2].[Load\_Data]

[Project2].[Load\_DimProduct]

[Project2].[Load\_DimProductSubcategory]

[Project 2]. [Show Table Status Row Count]

[Project2].[TruncateStarSchemaData]

## [CH01-01-Dimension].[DimTerritory]

#### **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Collation     | SQL_Latin1_General_CP1_CI_AS      |
| Row Count (~) | 0                                 |
| Created       | 2:15:16 AM Sunday, April 14, 2024 |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |

#### Columns

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

#### Indexes

| Key      | Name                       | Key Columns  | Unique |
|----------|----------------------------|--------------|--------|
| PKP<br>C | PKDimTerriC54B735D813BBCA6 | TerritoryKey | True   |

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

(
[TerritoryKey] [int] NOT NULL CONSTRAINT [DF_DimTerrit_Terri_6D9742D9] DEFAULT (NEXT VALUE FOR [PkSequence].[DimTerritorySequenceObject]),

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

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

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

[UserAuthorizationKey] [int] NULL,

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

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

ON [PRIMARY]
```

```
GO
ALTER TABLE [CH01-01-Dimension].[DimTerritory] ADD CONSTRAINT [PK__DimTerri__C54B735D813BBCA6]
PRIMARY KEY CLUSTERED ([TerritoryKey]) ON [PRIMARY]
GO
```

CH01-01-Dimension

#### **Used By**

[CH01-01-Fact].[Data]

[Project2].[Load\_Data]

[Project2].[Load\_DimTerritory]

[Project2].[ShowTableStatusRowCount]

[Project2].[TruncateStarSchemaData]

## [CH01-01-Dimension].[SalesManagers]

#### **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Collation     | SQL_Latin1_General_CP1_CI_AS      |
| Row Count (~) | 0                                 |
| Created       | 2:15:46 AM Sunday, April 14, 2024 |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |

#### Columns

| Key | Name                 | Data Type   | Max Length (Bytes) | Nullability  | Default   |
|-----|----------------------|-------------|--------------------|--------------|---|
| P₩  | SalesManagerKey      | int         | 4                  | NOT NULL     | (NEXT VALUE FOR [Pk-<br>Sequence].[SalesManagers-<br>SequenceObject]) |
|     | Category             | varchar(20) | 20                 | NULL allowed |   |
|     | SalesManager         | varchar(50) | 50                 | NULL allowed |   |
|     | Office               | varchar(50) | 50                 | NULL allowed |   |
|     | UserAuthorizationKey | int         | 4                  | NULL allowed |   |
|     | DateAdded            | datetime2   | 8                  | NULL allowed | (sysdatetime())   |
|     | DateOfLastUpdate     | datetime2   | 8                  | NULL allowed | (sysdatetime())   |

#### Indexes

| Key | Name             | Key Columns     | Unique |
|-----|------------------|-----------------|--------|
| PK  | PK_SalesManagers | SalesManagerKey | True   |

```
CREATE TABLE [CH01-01-Dimension].[SalesManagers]
[SalesManagerKey] [int] NOT NULL CONSTRAINT [DF_SalesMana_Sales_73501C2F] DEFAULT (NEXT VALUE
FOR [PkSequence].[SalesManagersSequenceObject]),
[{\tt Category}] \ [{\tt varchar}] \ ({\tt 20}) \ {\tt COLLATE} \ {\tt SQL\_Latin1\_General\_CP1\_CI\_AS} \ {\tt 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] NULL,
[DateAdded] [datetime2] NULL CONSTRAINT [DF_SalesManagers_DateAdded] DEFAULT (sysdatetime()),
[DateOfLastUpdate] [datetime2] NULL CONSTRAINT [DF_SalesManagers_DateOfLastUpdate] DEFAULT
(sysdatetime())
) ON [PRIMARY]
```

GO
ALTER TABLE [CH01-01-Dimension].[SalesManagers] ADD CONSTRAINT [PK\_SalesManagers] PRIMARY KEY
CLUSTERED ([SalesManagerKey]) ON [PRIMARY]
GO

#### Uses

CH01-01-Dimension

#### **Used By**

[CH01-01-Fact].[Data]

[Project2].[Load\_Data]

[Project2].[Load\_SalesManagers]

[Project2].[ShowTableStatusRowCount]

[Project2].[TruncateStarSchemaData]

# **■** [CH01-01-Fact].[Data]

## **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Collation     | SQL_Latin1_General_CP1_CI_AS      |
| Row Count (~) | 0                                 |
| Created       | 3:49:11 AM Sunday, April 14, 2024 |
| Last Modified | 3:49:11 AM Sunday, April 14, 2024 |

## Columns

| Key                | Name                  | Data Type   | Max Length (Bytes) | Nullability  | Default  |
|--------------------|-----------------------|-------------|--------------------|--------------|--|
| FK                 | ProductCategoryKey    | int         | 4                  | NOT NULL     |  |
| FK                 | ProductSubcategoryKey | int         | 4                  | NOT NULL     |  |
|                    | SubcategoryName       | varchar(50) | 50                 | NOT NULL     |  |
| ₽ <mark>%</mark> C | SalesKey              | int         | 4                  | NOT NULL     | (NEXT VALUE FOR [Pk-<br>Sequence].[DataSequence-<br>Object]) |
| FK                 | SalesManagerKey       | int         | 4                  | NULL allowed |  |
| FK                 | OccupationKey         | int         | 4                  | NULL allowed |  |
| FK                 | TerritoryKey          | int         | 4                  | NULL allowed |  |
| FK                 | ProductKey            | int         | 4                  | NULL allowed |  |
| FK                 | CustomerKey           | int         | 4                  | NULL allowed |  |
|                    | ProductCategory       | varchar(20) | 20                 | NULL allowed |  |
|                    | SalesManager          | varchar(20) | 20                 | NULL allowed |  |
|                    | ProductSubcategory    | varchar(20) | 20                 | NULL allowed |  |
|                    | ProductCode           | varchar(10) | 10                 | NULL allowed |  |
|                    | ProductName           | varchar(40) | 40                 | NULL allowed |  |
|                    | Color                 | varchar(10) | 10                 | NULL allowed |  |
|                    | ModelName             | varchar(30) | 30                 | NULL allowed |  |
|                    | OrderQuantity         | int         | 4                  | NULL allowed |  |
|                    | UnitPrice             | money       | 8                  | NULL allowed |  |
|                    | ProductStandardCost   | money       | 8                  | NULL allowed |  |
|                    | SalesAmount           | money       | 8                  | NULL allowed |  |
| FK                 | OrderDate             | date        | 3                  | NULL allowed |  |
|                    | MonthName             | varchar(10) | 10                 | NULL allowed |  |
|                    | MonthNumber           | int         | 4                  | NULL allowed |  |

|    | Year                 | int         | 4  | NULL allowed |
|----|----------------------|-------------|----|--------------|
|    | CustomerName         | varchar(30) | 30 | NULL allowed |
| FK | MaritalStatus        | char(1)     | 1  | NULL allowed |
| FK | Gender               | char(1)     | 1  | NULL allowed |
|    | Education            | varchar(20) | 20 | NULL allowed |
|    | Occupation           | varchar(20) | 20 | NULL allowed |
|    | TerritoryRegion      | varchar(20) | 20 | NULL allowed |
|    | TerritoryCountry     | varchar(20) | 20 | NULL allowed |
|    | TerritoryGroup       | varchar(20) | 20 | NULL allowed |
|    | UserAuthorizationKey | int         | 4  | NULL allowed |
|    | DateAdded            | datetime2   | 8  | NULL allowed |
|    | DateOfLastUpdate     | datetime2   | 8  | NULL allowed |

#### Indexes

| Key      | Name    | Key Columns | Unique |
|----------|---------|-------------|--------|
| PK2<br>C | PK_Data | SalesKey    | True   |

## Foreign Keys

| Name                          | Columns   |
|-------------------------------|---|
| FK_Data_DimCustomer           | CustomerKey->[CH01-01-Dimension].[DimCustomer].[CustomerKey]                                |
| FK_Data_DimGender             | Gender->[CH01-01-Dimension].[DimGender].[Gender]  |
| FK_Data_DimMaritalStatus      | MaritalStatus->[CH01-01-Dimension].[DimMaritalStatus].[MaritalStatus]                       |
| FK_Data_DimOccupation         | OccupationKey->[CH01-01-Dimension].[DimOccupation].[OccupationKey]                          |
| FK_Data_DimOrderDate          | OrderDate->[CH01-01-Dimension].[DimOrderDate].[OrderDate]                                   |
| FK_Data_DimProduct            | ProductKey->[CH01-01-Dimension].[DimProduct].[ProductKey]                                   |
| FK_Data_DimProductCategory    | ProductCategoryKey->[CH01-01-Dimension].[DimProductCategory].[ProductCategory-Key]          |
| FK_Data_DimProductSubcategory | ProductSubcategoryKey->[CH01-01-Dimension].[DimProductSubcategory].[Product-SubcategoryKey] |
| FK_Data_DimTerritory          | TerritoryKey->[CH01-01-Dimension].[DimTerritory].[TerritoryKey]                             |
| FK_Data_SalesManagers         | SalesManagerKey->[CH01-01-Dimension].[SalesManagers].[SalesManagerKey]                      |

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

(
[ProductCategoryKey] [int] NOT NULL,

[ProductSubcategoryKey] [int] NOT NULL,

[SubcategoryName] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[SalesKey] [int] NOT NULL CONSTRAINT [DF_Data_SalesKey_178D7CA5] DEFAULT (NEXT VALUE FOR [Pk-
```

```
Sequence].[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,
[SalesManager] [varchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[ProductSubcategory] [varchar] (20) COLLATE SQL Latin1 General CP1 CI AS NULL,
[ProductCode] [varchar] (10) COLLATE SQL Latin1 General CP1 CI AS NULL,
[ProductName] [varchar] (40) COLLATE SQL Latin1 General CP1 CI AS NULL,
[Color] [varchar] (10) COLLATE SQL Latin1 General CP1 CI AS NULL,
[ModelName] [varchar] (30) COLLATE SQL Latin1 General CP1 CI AS NULL,
[OrderQuantity] [int] NULL,
[UnitPrice] [money] NULL,
[ProductStandardCost] [money] NULL,
[SalesAmount] [money] NULL,
[OrderDate] [date] NULL,
[MonthName] [varchar] (10) COLLATE SQL Latin1 General CP1 CI AS NULL,
[MonthNumber] [int] NULL,
[Year] [int] NULL,
[CustomerName] [varchar] (30) COLLATE SQL Latin1 General CP1 CI AS NULL,
[MaritalStatus] [char] (1) COLLATE SQL Latin1 General CP1 CI AS NULL,
[Gender] [char] (1) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Education] [varchar] (20) COLLATE SQL Latin1 General CP1 CI AS NULL,
[Occupation] [varchar] (20) COLLATE SQL Latin1 General CP1 CI AS NULL,
[TerritoryRegion] [varchar] (20) COLLATE SQL Latin1 General CP1 CI AS NULL,
[TerritoryCountry] [varchar] (20) COLLATE SQL Latin1 General CP1 CI AS NULL,
[TerritoryGroup] [varchar] (20) COLLATE SQL Latin1 General CP1 CI AS NULL,
[UserAuthorizationKey] [int] NULL,
[DateAdded] [datetime2] NULL,
[DateOfLastUpdate] [datetime2] NULL
) ON [PRIMARY]
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [PK Data] PRIMARY KEY CLUSTERED ([SalesKey]) ON
[PRIMARY]
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK Data DimCustomer] FOREIGN KEY ([Customer-
Key]) 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 DimProduct] FOREIGN KEY ([ProductKey])
REFERENCES [CH01-01-Dimension].[DimProduct] ([ProductKey])
```

```
ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_Data_DimProductCategory] FOREIGN KEY ([ProductCategoryKey]) REFERENCES [CH01-01-Dimension].[DimProductCategory] ([ProductCategoryKey]) GO

ALTER TABLE [CH01-01-Fact].[Data] ADD CONSTRAINT [FK_Data_DimProductSubcategory] FOREIGN KEY ([ProductSubcategoryKey]) REFERENCES [CH01-01-Dimension].[DimProductSubcategory] ([Product-SubcategoryKey]) GO

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

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

[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

#### **Used By**

[Project2].[Load\_Data] [Project2].[ShowTableStatusRowCount] [Project2].[TruncateStarSchemaData]

## [DbSecurity].[UserAuthorization]

#### **Properties**

| Property      | Value                             |
|---------------|-----------------------------------|
| Collation     | SQL_Latin1_General_CP1_CI_AS      |
| Row Count (~) | 5                                 |
| Created       | 2:07:39 AM Sunday, April 14, 2024 |
| Last Modified | 2:07:39 AM Sunday, April 14, 2024 |

#### Columns

| Key  | Name                 | Data Type    | Max Length (Bytes) | Nullability  | Default   |
|------|----------------------|--------------|--------------------|--------------|---|
| PK G | UserAuthorizationKey | int          | 4                  | NOT NULL     |   |
|      | ClassTime            | nchar(5)     | 10                 | NULL allowed | ('9:15')  |
|      | IndividualProject    | nvarchar(60) | 120                | NULL allowed | ('PROJECT 2 RECREATE<br>THE BICLASS DATABASE<br>STAR SCHEMA') |
|      | GroupMemberLastName  | nvarchar(35) | 70                 | NOT NULL     |   |
|      | GroupMemberFirstName | nvarchar(25) | 50                 | NOT NULL     |   |
|      | GroupName            | nvarchar(20) | 40                 | NOT NULL     |   |
|      | DateAdded            | datetime2    | 8                  | NULL allowed | (sysdatetime())   |

#### Indexes

| Key | Name                       | Key Columns          | Unique |
|-----|----------------------------|----------------------|--------|
| PK  | PKUserAuth0FEC36CBDDB75FDA | UserAuthorizationKey | True   |

```
CREATE TABLE [DbSecurity].[UserAuthorization]
[UserAuthorizationKey] [int] NOT NULL,
[ClassTime] [nchar] (5) COLLATE SQL Latin1 General CP1 CI AS NULL CONSTRAINT [DF UserAutho -
Class 4D2A7347] DEFAULT ('9:15'),
[IndividualProject] [nvarchar] (60) COLLATE SQL Latin1 General CP1 CI AS NULL CONSTRAINT [DF -
UserAutho_Indiv_4E1E9780] DEFAULT ('PROJECT 2 RECREATE THE BICLASS DATABASE STAR SCHEMA'),
[GroupMemberLastName] [nvarchar] (35) COLLATE SQL Latin1 General CP1 CI AS NOT NULL,
[Group Member First Name] \ [nvarchar] \ (25) \ COLLATE \ SQL\_Latin1\_General\_CP1\_CI\_AS \ NOT \ NULL, \ (25) \ COLLATE \ SQL\_Latin1\_General\_CP1\_CI\_AS \ NOT \ NULL, \ (25) \ COLLATE \ SQL\_Latin1\_General\_CP1\_CI\_AS \ NOT \ NULL, \ (25) \ NOT 
[GroupName] [nvarchar] (20) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[DateAdded] [datetime2] NULL CONSTRAINT [DF_UserAutho_DateA_4F12BBB9] DEFAULT (sysdatetime())
) ON [PRIMARY]
```

# Project > localhost,13001 > User databases > BIClass > Tables > DbSecurity.UserAuthorization

```
GO
ALTER TABLE [DbSecurity].[UserAuthorization] ADD CONSTRAINT [PK_UserAuth_OFEC36CBDDB75FDA]
PRIMARY KEY CLUSTERED ([UserAuthorizationKey]) ON [PRIMARY]
GO
```

Uses

DbSecurity

# **III** [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]
GO
```

#### Uses

#### FileUpload

### **Used By**

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

# **■** [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

# **■** [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 (~) | 0                                 |
| Created       | 2:07:24 AM Sunday, April 14, 2024 |
| Last Modified | 2:07:24 AM Sunday, April 14, 2024 |

### Columns

| Key  | Name                      | Data Type     | Max Length<br>(Bytes) | Nullability  | Default         |
|------|---------------------------|---------------|-----------------------|--------------|-----------------|
| PK C | WorkFlowStepKey           | int           | 4                     | NOT NULL     |                 |
|      | 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 | ('09:15')       |
|      | UserAuthorizationKey      | int           | 4                     | NOT NULL     |                 |

#### Indexes

| Key | Name                       | Key Columns     | Unique |
|-----|----------------------------|-----------------|--------|
| PK  | PKWorkflow27726CBFE2523236 | WorkFlowStepKey | True   |

```
CREATE TABLE [Process].[WorkflowSteps]

(
[WorkFlowStepKey] [int] NOT NULL,
[WorkFlowStepDescription] [nvarchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[WorkFlowStepTableRowCount] [int] NULL CONSTRAINT [DF__WorkflowS__WorkF__477199F1] DEFAULT ((0)),
[StartingDateTime] [datetime2] NULL CONSTRAINT [DF__WorkflowS__Start__4865BE2A] DEFAULT
(sysdatetime()),
[EndingDateTime] [datetime2] NULL CONSTRAINT [DF__WorkflowS__Endin__4959E263] DEFAULT
(sysdatetime()),
[ClassTime] [char] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NULL CONSTRAINT [DF__WorkflowS__-
Class__4A4E069C] DEFAULT ('09:15'),
[UserAuthorizationKey] [int] NOT NULL
) ON [PRIMARY]
```

# Project > localhost,13001 > User databases > BIClass > Tables > Process.WorkflowSteps

GO
ALTER TABLE [Process].[WorkflowSteps] ADD CONSTRAINT [PK\_\_Workflow\_\_27726CBFE2523236] PRIMARY KEY
CLUSTERED ([WorkFlowStepKey]) ON [PRIMARY]
GO

Uses

Process

**Used By** 

[Process].[usp\_TrackWorkFlows]

# **■ 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;
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,
       {\tt CONCAT}\,({\tt col.DOMAIN\_SCHEMA,~'.',~col.DOMAIN\_NAME})~{\tt AS}~{\tt 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
       ( SELECT TABLE_CATALOG ,
FROM
                  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
```

Author: carlo

```
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
                                   INFORMATION_SCHEMA.CONSTRAINT_COLUMN_USAGE
                         FROM
                                   AS cu
                                   INNER JOIN INFORMATION SCHEMA.CHECK CONSTRAINTS
                                   AS c ON c.CONSTRAINT NAME = cu.CONSTRAINT NAME
                        ) AS cc ON cc.TABLE_SCHEMA = tbl.TABLE_SCHEMA
                                  AND cc.TABLE NAME = tbl.TABLE NAME
                                  AND cc.COLUMN NAME = col.COLUMN NAME
GO
```

Uses

Utils

**Used By** 

[Utils].[uvw FindTablesStorageBytes]

# [Utils].[uvw\_FindTablesStorageBytes]

# **Properties**

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

#### Columns

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

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

#### Uses

 $[Utils]. [uvw\_FindColumnDefinitionPlusDefaultAndCheckConstraint] \\ Utils$ 

# ■ Stored Procedures

# Objects

| Name                                       |
|--|
| Process.usp_TrackWorkFlows                 |
| Project2.AddForeignKeysToStarSchemaData    |
| Project2.DropForeignKeysFromStarSchemaData |
| Project2.Load_Data                         |
| Project2.Load_DimCustomer                  |
| Project2.Load_DimGender                    |
| Project2.Load_DimMaritalStatus             |
| Project2.Load_DimOccupation                |
| Project2.Load_DimOrderDate                 |
| Project2.Load_DimProduct                   |
| Project2.Load_DimProductCategory           |
| Project2.Load_DimProductSubcategory        |
| Project2.Load_DimTerritory                 |
| Project2.Load_SalesManagers                |
| Project2.LoadStarSchemaData                |
| Project2.ShowTableStatusRowCount           |
| Project2.TruncateStarSchemaData            |
| Utils.DropProcsInCSCl331FinalProject       |

# [Process].[usp\_TrackWorkFlows]

### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

| Name                       | Data Type     | Max Length (Bytes) |
|----------------------------|---------------|--------------------|
| @StartTime                 | datetime2     | 8                  |
| @WorkFlowDescription       | nvarchar(100) | 200                |
| @WorkFlowStepTableRowCount | int           | 4                  |
| @UserAuthorizationKey      | int           | 4                  |

```
-- Author: Ileana Aquilar
-- Create date: April 14, 2024
-- Description: Inserts workflow step details into the [Process].[WorkflowSteps] table, including
description, row count, start time, and user authorization key, and then prints a confirmation
message.
-- -----
CREATE PROCEDURE [Process].[usp_TrackWorkFlows]
   @StartTime DATETIME2,
   @WorkFlowDescription NVARCHAR(100),
   @WorkFlowStepTableRowCount INT,
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   INSERT INTO [Process].[WorkflowSteps]
       WorkFlowStepDescription,
       WorkFlowStepTableRowCount,
       StartingDateTime,
      UserAuthorizationKey
   VALUES
       @WorkFlowDescription,
```

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Process.usp\_TrackWork-Flows

```
@WorkFlowStepTableRowCount,
    @StartTime,
    @UserAuthorizationKey
);

PRINT 'Hi';
END;
GO
```

#### Uses

[Process].[WorkflowSteps] Process

### **Used By**

[Project2].[Load\_Data]

[Project2].[Load\_DimCustomer]

[Project2].[Load\_DimGender]

[Project2].[Load\_DimMaritalStatus]

[Project2].[Load\_DimOccupation]

 $[Project 2]. [Load\_DimOrderDate] \\$ 

[Project2].[Load\_DimProduct]

 $[Project 2]. [Load\_Dim Product Category] \\$ 

[Project2].[Load\_DimProductSubcategory]

[Project2].[Load\_DimTerritory]

[Project2].[Load\_SalesManagers]

# [Project2].[AddForeignKeysToStarSchemaData]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- ------
-- Author: Arrafi Talukder
-- Create Date: April 14th, 2024
-- Description: Add foreign keys to star schema
-- ------
CREATE PROCEDURE [Project2].[AddForeignKeysToStarSchemaData]
   @GroupMemberUserAuthorizationKey INT
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   ALTER TABLE [CH01-01-Dimension].[DimProduct] WITH CHECK ADD CONSTRAINT [FK DimProduct Dim-
ProductSubcategory] FOREIGN KEY ([ProductSubcategoryKey]) REFERENCES [CH01-01-Dimension].[Dim-
ProductSubcategory] ([ProductSubcategoryKey]);
   ALTER TABLE [CH01-01-Dimension].[DimProduct] CHECK CONSTRAINT [FK DimProduct DimProduct-
Subcategory];
   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-Dimension].[DimProductSubcategory] WITH CHECK ADD CONSTRAINT [FK Dim-
ProductSubcategory_DimProductCategory] FOREIGN KEY ([ProductCategoryKey]) REFERENCES [CH01-01-
Dimension].[DimProductCategory] ([ProductCategoryKey]);
   ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] CHECK CONSTRAINT [FK DimProduct-
Subcategory DimProductCategory];
   ALTER TABLE [CH01-01-Fact].[Data] WITH CHECK ADD CONSTRAINT [FK Data DimMaritalStatus]
FOREIGN KEY ([MaritalStatus]) REFERENCES [CH01-01-Dimension].[DimMaritalStatus] ([Marital-
Status1);
```

```
ALTER TABLE [CH01-01-Fact]. [Data] CHECK CONSTRAINT [FK Data DimMaritalStatus];
   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 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 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 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-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 DimProduct] FOREIGN KEY
([ProductKey]) REFERENCES [CH01-01-Dimension].[DimProduct] ([ProductKey]);
   ALTER TABLE [CH01-01-Fact].[Data] CHECK CONSTRAINT [FK Data DimProduct];
PRINT 'Hi'
END:
GO
```

Uses

Project2

**Used By** 

# [Project2].[DropForeignKeysFromStarSchemaData]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- ------
-- Author: Taruna Mangar
-- Create Date: April 14th, 2024
-- Description: Drops foreign keys from star schema
-- -----
CREATE PROCEDURE [Project2].[DropForeignKeysFromStarSchemaData]
   @GroupMemberUserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   ALTER TABLE [CH01-01-Dimension].[DimProductSubcategory] DROP CONSTRAINT [FK DimProduct-
Subcategory_DimProductCategory];
   ALTER TABLE [CH01-01-Dimension].[DimProduct] DROP CONSTRAINT [FK DimProduct DimProduct-
Subcategory];
   ALTER TABLE [CH01-01-Fact].[Data] DROP CONSTRAINT [FK Data DimMaritalStatus];
   ALTER TABLE [CH01-01-Fact].[Data] DROP CONSTRAINT [FK Data DimTerritory];
   ALTER TABLE [CH01-01-Fact]. [Data] DROP CONSTRAINT [FK Data DimCustomer];
   ALTER TABLE [CH01-01-Fact].[Data] DROP CONSTRAINT [FK Data DimGender];
   ALTER TABLE [CH01-01-Fact].[Data] DROP CONSTRAINT [FK Data DimOrderDate];
   ALTER TABLE [CH01-01-Fact].[Data] DROP CONSTRAINT [FK Data SalesManagers];
   ALTER TABLE [CH01-01-Fact].[Data] DROP CONSTRAINT [FK_Data_DimProduct];
   ALTER TABLE [CH01-01-Fact].[Data] DROP CONSTRAINT [FK Data DimOccupation];
   PRINT 'Hi'
END;
GO
```

| Project > localhost,13001 > User databases > BIClass ><br>Programmability > Stored Procedures > Project2.DropForeignKeys-<br>FromStarSchemaData |   |
|---|---|
| Uses  | _ |
| 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: Ileana Aguilar
-- Create date: 04/14/2024
-- Description:Inserts data into Data table.
-- @GroupMemberUserAuthorizationKey is the
-- UserAuthorizationKey of the Group Member who completed
-- this stored procedure.
CREATE PROCEDURE [Project2].[Load Data]
   @GroupMemberUserAuthorizationKey int
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   Declare @StartingTime DATETIME2 = SYSDATETIME();
   -- Corrected EXEC statement
   EXEC [Process].[usp TrackWorkFlows]
        @StartTime = @StartingTime,
        @WorkFlowDescription = 'Inserts data into Data table.',
        @WorkFlowStepTableRowCount = 0,
        @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;
    INSERT INTO [CH01-01-Fact].[Data]
        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
        DT.TerritoryKey, DP.ProductKey, DC.CustomerKey, OLD.ProductCategory, OLD.SalesManager,
       OLD.ProductSubcategory, OLD.ProductCode, OLD.ProductName, OLD.Color, OLD.ModelName,
OLD.OrderQuantity, OLD.UnitPrice, OLD.ProductStandardCost,
       OLD.SalesAmount, OLD.OrderDate, OLD.MonthName, OLD.MonthNumber, OLD.Year, OLD.Customer-
Name, OLD.MaritalStatus, OLD.Gender, OLD.Education,
       OLD.Occupation, OLD.TerritoryRegion, OLD.TerritoryCountry, OLD.TerritoryGroup, @Group-
MemberUserAuthorizationKey,
       sysdatetime(),
        sysdatetime()
   FROM FileUpload.OriginallyLoadedData AS OLD
       INNER JOIN [CH01-01-Dimension].DimProduct AS DP
       ON DP.ProductName = OLD.ProductName
        INNER JOIN [CH01-01-Dimension].DimTerritory AS DT
        ON DT.TerritoryCountry = OLD.TerritoryCountry
           AND DT.TerritoryGroup = OLD.TerritoryGroup
            AND DT.TerritoryRegion = OLD.TerritoryRegion
        INNER JOIN [CH01-01-Dimension].DimCustomer AS DC
        ON DC.CustomerName = OLD.CustomerName;
    /***** Script for SelectTopNRows command from SSMS ******/
   PRINT 'insert your statements within the Begin\End block which is the equivalentof the Java {
   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].[DimProductSubcategory];
   TRUNCATE TABLE [CH01-01-Dimension].[DimProductCategory];
   TRUNCATE TABLE [CH01-01-Dimension].[DimTerritory];
   TRUNCATE TABLE [CH01-01-Dimension].[SalesManagers];
   TRUNCATE TABLE [CH01-01-Fact].[Data];
END:
GO
```

#### Uses

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

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load\_Data

[CH01-01-Dimension].[SalesManagers] [CH01-01-Fact].[Data] [FileUpload].[OriginallyLoadedData] [Process].[usp\_TrackWorkFlows] Project2

**Used By** 

# [Project2].[Load\_DimCustomer]

### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- -----
-- Author: Bin Xie
-- Create date: April 14th, 2024
-- Description: Inserts data into dimCustomer table.
-- -----
CREATE PROCEDURE [Project2].[Load_DimCustomer]
   @GroupMemberUserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
Declare @StartingTime DATETIME2 = SYSDATETIME();
   -- Corrected EXEC statement
   EXEC [Process].[usp_TrackWorkFlows]
      @StartTime = @StartingTime,
       @WorkFlowDescription = 'Inserts data into dimCustomer table.',
       @WorkFlowStepTableRowCount = 0,
       @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;
   INSERT INTO [CH01-01-Dimension].[DimCustomer]
       (CustomerName, UserAuthorizationKey, DateAdded, DateOfLastUpdate)
   SELECT DISTINCT
       Old.CustomerName,
       @GroupMemberUserAuthorizationKey,
       SYSDATETIME(),
       SYSDATETIME ()
   FROM
       FileUpload.OriginallyLoadedData AS Old;
   PRINT 'Data load complete.'
END
```

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load\_Dim-Customer

GO

### Uses

[CH01-01-Dimension].[DimCustomer] [FileUpload].[OriginallyLoadedData] [Process].[usp\_TrackWorkFlows] Project2

**Used By** 

# [Project2].[Load\_DimGender]

# **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- Author: Carlo Ace Sagad
-- Create date: 04/14/2024
-- Description: Inserts data into DimGender table.
CREATE PROCEDURE [Project2].[Load DimGender]
@GroupMemberUserAuthorizationKey int
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
   SET NOCOUNT ON;
   Declare @StartingTime DATETIME2 = SYSDATETIME();
    -- Corrected EXEC statement
   EXEC [Process].[usp TrackWorkFlows]
        @StartTime = @StartingTime,
        @WorkFlowDescription = 'Inserts data into DimGender table.',
        @WorkFlowStepTableRowCount = 0,
        @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;
   INSERT INTO [CH01-01-Dimension].[DimGender] (Gender, GenderDescription, UserAuthorizationKey,
DateAdded, DateOfLastUpdate)
   SELECT DISTINCT Old.Gender,
        GenderDescription =
            CASE
               WHEN Old.Gender = 'M' THEN 'Male'
                ELSE 'Female'
            END,
            @GroupMemberUserAuthorizationKey,
            sysdatetime(),
            sysdatetime()
    FROM FileUpload.OriginallyLoadedData as Old
```

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load\_DimGender

```
PRINT 'Hi'
END;
GO
```

### Uses

[CH01-01-Dimension].[DimGender] [FileUpload].[OriginallyLoadedData] [Process].[usp\_TrackWorkFlows] Project2

# **Used By**

# [Project2].[Load\_DimMaritalStatus]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- -----
-- Author: Arrafi Talukder
-- Create date: April 14,2024
-- Description: Inserts data into DimMaritalStatus table.
-- -----
CREATE PROCEDURE [Project2].[Load_DimMaritalStatus]
   @GroupMemberUserAuthorizationKey int
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   Declare @StartingTime DATETIME2 = SYSDATETIME();
   -- Corrected EXEC statement
   EXEC [Process].[usp TrackWorkFlows]
       @StartTime = @StartingTime,
       @WorkFlowDescription = 'Inserts data into DimMaritalStatus table.',
       @WorkFlowStepTableRowCount = 0,
       @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;
   INSERT INTO [CH01-01-Dimension].[DimMaritalStatus] (MaritalStatus, MaritalStatusDescription,
UserAuthorizationKey, DateAdded, DateOfLastUpdate)
   SELECT DISTINCT Old.MaritalStatus,
       MaritalStatusDescription =
              WHEN Old.MaritalStatus = 'M' THEN 'Married'
              ELSE 'Single'
           @GroupMemberUserAuthorizationKey, SYSDATETIME(), SYSDATETIME()
   FROM FileUpload.OriginallyLoadedData AS Old
PRINT 'Hi'
```

Project > localhost,13001 > User databases > BlClass > Programmability > Stored Procedures > Project2.Load\_DimMarital-Status

END GO

# Uses

[CH01-01-Dimension].[DimMaritalStatus] [FileUpload].[OriginallyLoadedData] [Process].[usp\_TrackWorkFlows] Project2

**Used By** 

# [Project2].[Load\_DimOccupation]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- -----
-- Author: Taruna Mangar
-- Create date: April 14th, 2024
-- Description: Insert data into dimOccupation table.
-- -----
CREATE PROCEDURE [Project2].[Load DimOccupation]
   @GroupMemberUserAuthorizationKey int
AS
BEGIN
  SET NOCOUNT ON;
   Declare @StartingTime DATETIME2 = SYSDATETIME();
   EXEC [Process].[usp TrackWorkFlows]
       @StartTime = @StartingTime,
       @WorkFlowDescription = 'Inserts data into dimOccupation table.',
       @WorkFlowStepTableRowCount = 0,
       @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;
   INSERT INTO [CH01-01-Dimension].[DimOccupation] (Occupation, UserAuthorizationKey, DateAdded,
DateOfLastUpdate)
   SELECT DISTINCT OLD. Occupation,
   @GroupMemberUserAuthorizationKey,
      sysdatetime(),
       sysdatetime()
   FROM FileUpload.OriginallyLoadedData AS OLD
PRINT 'Data load complete.'
END
GO
```

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load\_Dim-Occupation

### Uses

[CH01-01-Dimension].[DimOccupation] [FileUpload].[OriginallyLoadedData] [Process].[usp\_TrackWorkFlows] Project2

# **Used By**

# [Project2].[Load\_DimOrderDate]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- -----
-- Author:
           Ileana Aquilar
-- Create date: April 4, 2024
-- Description: Inserts data into [CH01-01-Dimension].[DimOrderDate] table.
-- -----
CREATE PROCEDURE [Project2].[Load_DimOrderDate]
@GroupMemberUserAuthorizationKey int
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   Declare @StartingTime DATETIME2 = SYSDATETIME();
   EXEC [Process].[usp TrackWorkFlows]
       @StartTime = @StartingTime,
       @WorkFlowDescription = 'Inserts data into [CH01-01-Dimension].[DimOrderDate] table',
       @WorkFlowStepTableRowCount = 0,
       @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;
   INSERT INTO [CH01-01-Dimension].[DimOrderDate] (OrderDate, MonthName, MonthNumber, Year,
UserAuthorizationKey, DateAdded, DateOfLastUpdate)
   SELECT DISTINCT Old.OrderDate, Old.MonthName, Old.MonthNumber, Old.Year, @GroupMemberUser-
AuthorizationKey,
       sysdatetime(),
       sysdatetime()
   FROM FileUpload.OriginallyLoadedData AS Old
PRINT 'Hi'
END
```

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load\_DimOrder-Date

### Uses

[CH01-01-Dimension].[DimOrderDate] [FileUpload].[OriginallyLoadedData] [Process].[usp\_TrackWorkFlows] Project2

# **Used By**

# [Project2].[Load\_DimProduct]

# **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- Author: Bin Xie
-- Create date: April 14th, 2024
-- Description: Insert data into dimProduct table.
CREATE PROCEDURE [Project2].[Load_DimProduct]
   @GroupMemberUserAuthorizationKey int
AS
BEGIN
   SET NOCOUNT ON;
   Declare @StartingTime DATETIME2 = SYSDATETIME();
   EXEC [Process].[usp TrackWorkFlows]
       @StartTime = @StartingTime,
        @WorkFlowDescription = 'Inserts data into dimProduct table.',
        @WorkFlowStepTableRowCount = 0,
        @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;
   INSERT INTO [CH01-01-Dimension].[DimProduct]
        ProductSubcategoryKey, ProductCategory, ProductSubcategory, ProductCode,
        ProductName, Color, ModelName, UserAuthorizationKey, DateAdded, DateOfLastUpdate
   SELECT DISTINCT DPS.ProductSubcategoryKey, OLD.ProductCategory, DPS.ProductCategoryKey,
OLD.ProductCode,
       OLD.ProductName, OLD.Color, OLD.ModelName, @GroupMemberUserAuthorizationKey,
SYSDATETIME(), SYSDATETIME()
   FROM FileUpload.OriginallyLoadedData AS OLD
       INNER JOIN [CH01-01-Dimension].DimProductSubcategory AS DPS
            ON DPS.ProductSubcategoryKey = OLD.ProductSubcategory
        INNER JOIN [CH01-01-Dimension].DimProductCategory AS DPC
           ON DPC.ProductCategoryKey = DPS.ProductCategoryKey
```

```
AND DPC.ProductCategoryKey = OLD.ProductCategory;
PRINT 'Data load complete.'

END
GO
```

### Uses

[CH01-01-Dimension].[DimProduct]
[CH01-01-Dimension].[DimProductCategory]
[CH01-01-Dimension].[DimProductSubcategory]
[FileUpload].[OriginallyLoadedData]
[Process].[usp\_TrackWorkFlows]
Project2

### **Used By**

# [Project2].[Load\_DimProductCategory]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- -----
-- Author: Carlo Ace Sagad
-- Create date: 04/14/2024
-- Description: Inserts data into DimProductCategory table.
-- -----
CREATE PROCEDURE [Project2].[Load_DimProductCategory]
@GroupMemberUserAuthorizationKey int
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   Declare @StartingTime DATETIME2 = SYSDATETIME();
   -- Corrected EXEC statement
   EXEC [Process].[usp TrackWorkFlows]
       @StartTime = @StartingTime,
       @WorkFlowDescription = 'Inserts data into DimProductCategory table.',
       @WorkFlowStepTableRowCount = 0,
       @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;
   INSERT INTO [CH01-01-Dimension].[DimProductCategory] (ProductCategoryKey, UserAuthorization-
Key, DateAdded, DateOfLastUpdate)
   {\tt SELECT\ DISTINCT\ OLD.ProductCategory,\ @GroupMemberUserAuthorizationKey,}
       sysdatetime(),
       sysdatetime()
   FROM FileUpload.OriginallyLoadedData AS Old;
PRINT 'Hi'
```

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load\_DimProduct-Category

END GO

Uses

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

[Process].[usp\_TrackWorkFlows]

Project2

**Used By** 

[Project2].[LoadStarSchemaData]

# [Project2].[Load\_DimProductSubcategory]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- -----
-- Author: Arrafi Talukder
-- Create date: April 14th, 2024
-- Description: Inserts data into DimProductSubcategory.
-- -----
CREATE PROCEDURE [Project2].[Load_DimProductSubcategory]
          @GroupMemberUserAuthorizationKey int
AS
BEGIN
        SET NOCOUNT ON;
DECLARE @StartingTime DATETIME2 = SYSDATETIME();
         EXEC [Process].[usp TrackWorkFlows]
                    @StartTime = @StartingTime,
                    @WorkFlowDescription = 'Inserts data into DimProductSubcategory.',
                     @WorkFlowStepTableRowCount = 0,
                     {\tt @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;}
          -- SET NOCOUNT ON added to prevent extra result sets from
          -- interfering with SELECT statements.
          INSERT INTO [CH01-01-Dimension].[DimProductSubcategory]
                     (\texttt{ProductCategoryKey, ProductSubcategoryKey, UserAuthorizationKey, DateAdded, DateOfLast-CategoryKey, ProductSubcategoryKey, UserAuthorizationKey, DateAdded, DateOfLast-CategoryKey, DateOfLast-CategoryKey, DateAdded, DateOfLast-CategoryKey, DateOfLast-Categ
Update)
          SELECT DISTINCT DPC.ProductCategoryKey, OLD.ProductSubcategory, @GroupMemberUser-
AuthorizationKey, sysdatetime(), sysdatetime()
         FROM FileUpload.OriginallyLoadedData AS OLD
                    INNER JOIN [CH01-01-Dimension].[DimProductCategory] AS DPC
                    ON DPC.ProductCategoryKey = OLD.ProductCategory;
          PRINT 'Hi'
END;
GO
```

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load\_DimProduct-Subcategory

#### Uses

[CH01-01-Dimension].[DimProductCategory]
[CH01-01-Dimension].[DimProductSubcategory]
[FileUpload].[OriginallyLoadedData]
[Process].[usp\_TrackWorkFlows]
Project2

## **Used By**

[Project2].[LoadStarSchemaData]

# [Project2].[Load\_DimTerritory]

## **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- Author: Taruna Mangar
-- Create date: April 14, 2024
-- Description: Inserts data into DimTerritory table.
CREATE PROCEDURE [Project2].[Load_DimTerritory]
   @GroupMemberUserAuthorizationKey int
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
   SET NOCOUNT ON;
Declare @StartingTime DATETIME2 = SYSDATETIME();
    -- Corrected EXEC statement
   EXEC [Process].[usp TrackWorkFlows]
        @StartTime = @StartingTime,
        @WorkFlowDescription = 'Inserts data into DimTerritory table.',
        @WorkFlowStepTableRowCount = 0,
        {\tt @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;}
   INSERT INTO [CH01-01-Dimension].[DimTerritory] (TerritoryGroup, TerritoryCountry, Territory-
Region, UserAuthorizationKey, DateAdded, DateOfLastUpdate)
   SELECT DISTINCT OLD.TerritoryGroup, OLD.TerritoryCountry, OLD.TerritoryRegion, @GroupMember-
UserAuthorizationKey, sysdatetime(), sysdatetime()
   FROM FileUpload.OriginallyLoadedData AS OLD;
PRINT 'Hi'
    END
GO
```

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load\_DimTerritory

#### Uses

[CH01-01-Dimension].[DimTerritory] [FileUpload].[OriginallyLoadedData] [Process].[usp\_TrackWorkFlows] Project2

**Used By** 

[Project2].[LoadStarSchemaData]

# [Project2].[Load\_SalesManagers]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- -----
-- Author: Ileana Aguilar
-- Create date: April 14,2024
-- Description: Inserts data into [CH01-01-Dimension]. SalesManagers table.
-- -----
CREATE PROCEDURE [Project2].[Load_SalesManagers]
   @GroupMemberUserAuthorizationKey int
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   Declare @StartingTime DATETIME2 = SYSDATETIME();
   EXEC [Process].[usp TrackWorkFlows]
       @StartTime = @StartingTime,
       @WorkFlowDescription = 'Inserts data into [CH01-01-Dimension].SalesManagers table.',
       @WorkFlowStepTableRowCount = 0,
       @UserAuthorizationKey = @GroupMemberUserAuthorizationKey;
   INSERT INTO [CH01-01-Dimension].SalesManagers
       SalesManagerKey,
       Category,
       SalesManager,
       Office,
       UserAuthorizationKey, DateAdded, DateOfLastUpdate
   SELECT DISTINCT
       SalesManager,
       old.ProductCategory,
```

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Project2.Load\_Sales-Managers

```
SalesManager,
        Office = CASE
                    WHEN old.SalesManager LIKE 'Marco%' THEN
                        'Redmond'
                     WHEN old.SalesManager LIKE 'Alberto%' THEN
                        'Seattle'
                     WHEN old.SalesManager LIKE 'Maurizio%' THEN
                        'Redmond'
                     ELSE
                        'Seattle'
                 END,
        @GroupMemberUserAuthorizationKey,
        sysdatetime(),
        sysdatetime()
    FROM FileUpload.OriginallyLoadedData AS old
    ORDER BY old.SalesManager;
END
GO
```

#### Uses

[CH01-01-Dimension].[SalesManagers] [FileUpload].[OriginallyLoadedData] [Process].[usp\_TrackWorkFlows] Project2

#### **Used By**

[Project2].[LoadStarSchemaData]

# [Project2].[LoadStarSchemaData]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- -----
-- Author: Arrafi Talukder
-- Create date: April 14th, 2024
-- Description: Inserts data into the star schema
-- -----
CREATE PROCEDURE [Project2].[LoadStarSchemaData]
   -- Add the parameters for the stored procedure here
   @GroupMemberUserAuthorizationKey int
AS
BEGIN
   SET NOCOUNT ON;
        Drop All of the foreign keys prior to truncating tables in the star schema
   EXEC [Project2].[DropForeignKeysFromStarSchemaData];
   -- Check row count before truncation
   EXEC [Project2].[ShowTableStatusRowCount]
      @GroupMemberUserAuthorizationKey = 3,
       @TableStatus = N'''Pre-truncate of tables'''
       Always truncate the Star Schema Data
   EXEC [Project2].[TruncateStarSchemaData];
        Load the star schema
   EXEC [Project2].[Load DimProductCategory] @GroupMemberUserAuthorizationKey = 3;
   EXEC [Project2].[Load_DimProductSubcategory] @GroupMemberUserAuthorizationKey = 4;
```

```
EXEC [Project2].[Load DimProduct] @GroupMemberUserAuthorizationKey = 5;
   EXEC [Project2].[Load SalesManagers] @GroupMemberUserAuthorizationKey = 1;
   EXEC [Project2].[Load DimGender] @GroupMemberUserAuthorizationKey = 3;
   EXEC [Project2].[Load DimMaritalStatus] @GroupMemberUserAuthorizationKey = 4;
   EXEC [Project2].[Load DimOccupation] @GroupMemberUserAuthorizationKey = 2;
   EXEC [Project2].[Load DimOrderDate] @GroupMemberUserAuthorizationKey = 1;
   EXEC [Project2].[Load DimTerritory] @GroupMemberUserAuthorizationKey = 2;
   EXEC [Project2].[Load DimCustomer] @GroupMemberUserAuthorizationKey = 5;
   EXEC [Project2].[Load Data] @GroupMemberUserAuthorizationKey = 1;
         Recreate all of the foreign keys prior after loading the star schema
         Check row count before truncation
   EXEC
         [Project2].[ShowTableStatusRowCount]
       @GroupMemberUserAuthorizationKey = 3,
       @TableStatus = N'''Row Count after loading the star schema'''
  EXEC [Project2].[AddForeiqnKeysToStarSchemaData] @GroupMemberUserAuthorizationKey = 4;
END;
GO
```

#### Uses

```
[Project2].[AddForeignKeysToStarSchemaData]
[Project2].[DropForeignKeysFromStarSchemaData]
[Project2].[Load_Data]
[Project2].[Load DimCustomer]
[Project2].[Load DimGender]
[Project2].[Load DimMaritalStatus]
[Project2].[Load DimOccupation]
[Project2].[Load_DimOrderDate]
[Project2].[Load_DimProduct]
[Project2].[Load_DimProductCategory]
[Project2].[Load DimProductSubcategory]
[Project2].[Load_DimTerritory]
[Project2].[Load_SalesManagers]
[Project2].[ShowTableStatusRowCount]
[Project2].[TruncateStarSchemaData]
Project2
```

# [Project2].[ShowTableStatusRowCount]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

| Name                             | Data Type   | Max Length (Bytes) |
|----------------------------------|-------------|--------------------|
| @GroupMemberUserAuthorizationKey | int         | 4                  |
| @TableStatus                     | varchar(64) | 64                 |

```
-- Author: Carlo Ace Sagad
-- Create date: April 14th, 2024
-- Description: Showing all of the status of every table on every row count
-- -----
CREATE PROCEDURE [Project2].[ShowTableStatusRowCount]
@GroupMemberUserAuthorizationKey int,
@TableStatus VARCHAR(64)
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   select UserAuthorizationKey = @GroupMemberUserAuthorizationKey, TableStatus = @TableStatus,
TableName = 'CH01-01-Dimension.DimCustomer', COUNT(*) FROM [CH01-01-Dimension].DimCustomer
   select UserAuthorizationKey = @GroupMemberUserAuthorizationKey, TableStatus = @TableStatus,
TableName = 'CH01-01-Dimension.DimGender', COUNT(*) FROM [CH01-01-Dimension].DimGender
   select UserAuthorizationKey = @GroupMemberUserAuthorizationKey, TableStatus = @TableStatus,
TableName = 'CH01-01-Dimension.DimMaritalStatus', COUNT(*) FROM [CH01-01-Dimension].DimMarital-
    select UserAuthorizationKey = @GroupMemberUserAuthorizationKey, TableStatus = @TableStatus,
TableName = 'CH01-01-Dimension.DimOccupation', COUNT(*) FROM [CH01-01-Dimension].DimOccupation
    select UserAuthorizationKey = @GroupMemberUserAuthorizationKey, TableStatus = @TableStatus,
TableName = 'CH01-01-Dimension.DimOrderDate', COUNT(*) FROM [CH01-01-Dimension].DimOrderDate
    select UserAuthorizationKey = @GroupMemberUserAuthorizationKey, TableStatus = @TableStatus,
TableName = 'CH01-01-Dimension.DimProduct', COUNT(*) FROM [CH01-01-Dimension].DimProduct
    select UserAuthorizationKey = @GroupMemberUserAuthorizationKey, TableStatus = @TableStatus,
TableName = 'CH01-01-Dimension.DimProductCategory', COUNT(*) FROM [CH01-01-Dimension].DimProduct-
```

```
Category

select UserAuthorizationKey = @GroupMemberUserAuthorizationKey, TableStatus = @TableStatus,
TableName = 'CH01-01-Dimension.DimProductSubcategory', COUNT(*) FROM [CH01-01-Dimension].Dim-
ProductSubcategory

select UserAuthorizationKey = @GroupMemberUserAuthorizationKey, TableStatus = @TableStatus,
TableName = 'CH01-01-Dimension.DimTerritory', COUNT(*) FROM [CH01-01-Dimension].DimTerritory

select UserAuthorizationKey = @GroupMemberUserAuthorizationKey, TableStatus = @TableStatus,
TableName = 'CH01-01-Dimension.SalesManagers', COUNT(*) FROM [CH01-01-Dimension].SalesManagers

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

END
GO
```

#### Uses

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

Used By

[Project2].[LoadStarSchemaData]

# [Project2].[TruncateStarSchemaData]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **Parameters**

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

```
-- -----
-- Author: Arrafi Talukder
-- Create date: April 14th, 2024
-- Description: Truncates each table.
-- -----
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;
   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].[DimProductSubcategory];
   TRUNCATE TABLE [CH01-01-Dimension].[DimProductCategory];
   TRUNCATE TABLE [CH01-01-Dimension].[DimTerritory];
   TRUNCATE TABLE [CH01-01-Dimension].[SalesManagers];
   TRUNCATE TABLE [CH01-01-Fact].[Data];
   print 'insert your statements within the Begin\End block which is the equivalentof the Java {
\ } '
end
GO
```

Project > localhost,13001 > User databases > BIClass > Programmability > Stored Procedures > Project2.TruncateStar-SchemaData

#### Uses

[CH01-01-Dimension].[DimCustomer]

[CH01-01-Dimension].[DimGender]

[CH01-01-Dimension].[DimMaritalStatus]

[CH01-01-Dimension].[DimOccupation]

[CH01-01-Dimension].[DimOrderDate]

[CH01-01-Dimension].[DimProduct]

[CH01-01-Dimension].[DimProductCategory]

[CH01-01-Dimension].[DimProductSubcategory]

[CH01-01-Dimension].[DimTerritory]

[CH01-01-Dimension].[SalesManagers]

[CH01-01-Fact].[Data]

Project2

## **Used By**

[Project2].[LoadStarSchemaData]

## [Utils].[DropProcsInCSCI331FinalProject]

#### **Properties**

| Property             | Value |
|----------------------|-------|
| ANSI Nulls On        | True  |
| Quoted Identifier On | True  |

#### **SQL Script**

```
-- ------
-- Author:
           Taruna Mangar
-- Create date: April 14, 2024
-- Description: Dropping the Procedures
CREATE procedure [Utils].[DropProcsInCSCI331FinalProject]
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:
```

#### Uses

Utils

# Scalar-valued Functions

## Objects

#### Name

Utils. Calculate Data Type Byte Storage

# [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('(', @DataType, 0) - 1
                                         ) AS INT) + 2
                        WHEN CHARINDEX('(', @DataType, 0) > 0
                             AND SUBSTRING(@DataType, 1, 3) = 'cha' THEN
                            CAST (SUBSTRING (
                                             @DataType
                                           , CHARINDEX('(', @DataType, 0) + 1
```

Project > localhost,13001 > User databases > BIClass > Programmability > Functions > Scalar-valued Functions > Utils.CalculateDataTypeByteStorage

Uses

Utils



# Sequences

## **Objects**

| Name                                   |
|--|
| PkSequence.DataSequenceObject          |
| PkSequence.DimCustomerSequenceObject   |
| PkSequence.DimOccupationSequenceObject |

 ${\bf PkSequence.} Dim Product Category Sequence Object$ 

PkSequence.DimProductSequenceObject

 ${\bf PkSequence.DimProductSubcategorySequenceObject}$ 

PkSequence.DimTerritorySequenceObject

PkSequence.SalesManagersSequenceObject

# [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].[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

# **1** Users

## 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  |

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



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

## **Database Level Permissions**

| Туре    | Action |
|---------|--------|
| CONNECT | Grant  |

```
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

| Name              |
|-------------------|
| db_accessadmin    |
| db_backupoperator |
| db_datareader     |
| db_datawriter     |
| db_ddladmin       |
| db_denydatareader |
| db_denydatawriter |
| db_owner          |
| db_securityadmin  |
| public            |

# ♣ db\_accessadmin

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

# db\_backupoperator

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

# db\_datareader

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

#### **Members**

• rheller

## SQL Script

ALTER ROLE [db\_datareader] ADD MEMBER [rheller] GO

#### Uses

rheller

# ♣ db\_datawriter

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

# ♣ db\_ddladmin

| Property | Value |
|----------|-------|
| Owner    | dbo   |

# db\_denydatareader

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

# db\_denydatawriter

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

# db\_owner

## **Properties**

| Dronorty | Value |
|----------|-------|
| Property | value |

| Owner | dbo |  |
|-------|-----|--|
| 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   |

# nublic 🕰

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

# **△** Schemas

## **Objects**

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

# **△** CH01-01-Dimension

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

## **SQL Script**

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

#### **Used By**

[CH01-01-Dimension].[DimCustomer]

[CH01-01-Dimension].[DimGender]

[CH01-01-Dimension].[DimMaritalStatus]

[CH01-01-Dimension].[DimOccupation]

[CH01-01-Dimension].[DimOrderDate]

[CH01-01-Dimension].[DimProduct]

[CH01-01-Dimension].[DimProductCategory]

[CH01-01-Dimension].[DimProductSubcategory]

[CH01-01-Dimension].[DimTerritory]

[CH01-01-Dimension].[SalesManagers]

# **△** CH01-01-Fact

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

## SQL Script

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

## **Used By**

[CH01-01-Fact].[Data]

# **♣** DbSecurity

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

## **SQL Script**

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

## **Used By**

[DbSecurity].[UserAuthorization]

# ♣ FileUpload

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

## **SQL Script**

CREATE SCHEMA [FileUpload]
AUTHORIZATION [dbo]
GO

## **Used By**

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

# **△** PkSequence

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

## **SQL Script**

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

#### **Used By**

[PkSequence].[DataSequenceObject]

[PkSequence]. [DimCustomerSequenceObject]

[PkSequence].[DimOccupationSequenceObject]

[PkSequence].[DimProductCategorySequenceObject]

[PkSequence].[DimProductSequenceObject]

[PkSequence].[DimProductSubcategorySequenceObject]

[PkSequence]. [Dim Territory Sequence Object]

[PkSequence].[SalesManagersSequenceObject]

# **△** Process

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

## **SQL Script**

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

## **Used By**

[Process].[WorkflowSteps]
[Process].[usp\_TrackWorkFlows]

# **△** Project2

## **Properties**

| Property | Value |
|----------|-------|
| Owner    | dbo   |

## **SQL Script**

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

#### **Used By**

[Project2].[AddForeignKeysToStarSchemaData]

[Project 2]. [Drop Foreign Keys From Star Schema Data]

[Project2].[Load\_Data]

[Project2].[Load\_DimCustomer]

[Project2].[Load\_DimGender]

[Project2].[Load\_DimMaritalStatus]

[Project2].[Load\_DimOccupation]

[Project2].[Load\_DimOrderDate]

[Project2].[Load\_DimProduct]

[Project2].[Load\_DimProductCategory]

[Project2].[Load\_DimProductSubcategory]

[Project2].[Load\_DimTerritory]

[Project2].[Load\_SalesManagers]

[Project2].[LoadStarSchemaData]

[Project 2]. [Show Table Status Row Count]

[Project2].[TruncateStarSchemaData]



| 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]