# localhost, 13001 Documentation

# **QueensClassSchedule**

Server localhost,13001

Author benja

Created Tuesday, May 14, 2024 7:00:40 PM

File Path C:\Users\benja\Downloads\localhost,13001\_documentation-2024-05-14T19-00-40.pdf

# **Table of Contents**

able of Contents	2
localhost,13001	5
User databases	7
QueensClassSchedule Database	8
III Tables	10
[Course].[Class]	11
[Course].	14
[Course].[CoursesCLassMode]	16
[Course].[Mode_Of_Instruction]	18
[DbSecurity].[UserAuthorization]	20
[Department].[Departments]	22
[Department].[Instructor]	24
[Department].[InstructorDepartment]	26
[Location].[BuildingLocation]	28
[Location].[RoomLocation]	30
[process].[WorkflowSteps]	32
[Uploadfile].[CurrentSemesterCourseOfferings]	34
区 Views	36
[Utils].[uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint]	37
Stored Procedures	40
[Project3].[AddForeignKeysToQueensClassSchedule]	41
[Project3].[DropForeignKeysFromQueensClassSchedule]	44
[Project3].[Load_BuildingLocation]	46
[Project3].[Load_ClassTable]	48
[Project3].[Load_CourseBridgeTable]	
[Project3].[Load_CourseTable]	
[Project3].[Load_DepartmentBridgeTable]	
[Project3].[Load_DepartmentTable]	56
[Project3].[Load_InstructorTable]	
[Project3].[Load_ModeOfInstruction]	
[Project3].[Load_RoomLocationTable]	
[Project3].[LoadData]	65
[Project3].[ShowTableStatusRowCount]	
[Project3].[TrackWorkFlow]	
[Project3].[TruncateData]	
Table-valued Functions	
[dbo].[DatabaseObjects]	74

[dbo].[JSONHierarchy]	75
User-Defined Data Types	80
៉្រី [udt].[ClassDuration]	81
[udt].[ClassTime]	82
[udt].[DateAdded]	83
[udt].[FirstName]	84
៉ឺៀ [udt].[GroupName]	
[udt].[IndividualProject]	86
[udt].[LastName]	87
[udt].[Rowcount]	88
[udt].[SurrogateKeyFloat]	89
[udt].[SurrogateKeyInt]	90
[udt].[SurrogateKeyString]	
[udt].[workflowstring]	92
Users	
<b>♣</b> BiStudent	94
<b>♣</b> dbo	95
<b>L</b> EC3\thehitman	96
<b>1</b> guest	97
student	98
Database Roles	99
db_accessadmin	99
db_backupoperator	99
♣ db_datareader	100
db_datawriter	100
db_ddladmin	101
db_denydatareader	101
db_denydatawriter	101
db_owner	
db_securityadmin	102
public	102
Schemas	103
Course	104
↑ DbSecurity	
↑ Department	
▲ Location	
↑ process	

↑ Project3	110
<b>∆</b> <sub>udt</sub>	111
<b>⚠</b> Uploadfile	112
✓ YourLastName	

# **Iocalhost,13001**

#### Databases (1)

# • ■ QueensClassSchedule

#### **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	12		
OS Version	6.2 (9200)		
Physical Memory	25633		
Is Clustered	False		
Root Directory	C:\		
Collation	SQL_Latin1_General_CP1_CI_AS		

## Server Settings

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

#### **Advanced Server Settings**

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

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

□ User databases
------------------

Databases (1)

• ■ QueensClassSchedule

# **☐ QueensClassSchedule Database**

# **Database Properties**

Property	Value	
SQL Server Version	SqlServer2019	
Compatibility Level	SQL Server 2016	
Last backup time	05/14/2024	
Last log backup time	-	
Creation date	May 14 2024	
Users	7	
Database Encryption Enabled	False	
Database Encryption Algorithm	None	
Database size	144.00 MB	
Unallocated space	1.60 MB	

## **Database Options**

Property	Value
Compatibility Level	130
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	9f5d9c27-bc5c-4d67-9b27-e7ae78bc354f
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	60
Database owner	sa

#### Files

Name	Туре	Size	Maxsize	Autogrowth	File Name
QC2019	Data	8.00 MB	unlimited	64.00 MB	/var/opt/mssql/data/QueensClassScheduleCurrent- Semester.mdf
QC2019_log	Log	136.00 MB	2048.00 GB	64.00 MB	/var/opt/mssql/log/QueensClassScheduleCurrent- Semester_0.ldf

# **■ Tables**

### **Objects**

Name
Course.Class
Course.Course
Course.CoursesCLassMode
Course.Mode_Of_Instruction
DbSecurity.UserAuthorization
Department.Departments
Department.Instructor
Department.InstructorDepartment
Location.BuildingLocation
Location.RoomLocation
process.WorkflowSteps
Uploadfile.CurrentSemesterCourseOfferings

# **■** [Course].[Class]

### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	4522
Created	12:29:33 AM Tuesday, May 14, 2024
Last Modified	10:56:06 PM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PK C	ClassID	[udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	Enrollment	[udt].[SurrogateKeyInt]	4	NULL allowed		
	Limit	[udt].[SurrogateKeyInt]	4	NULL allowed		
	Section	[udt].[SurrogateKeyString]	60	NULL allowed		
	ClassCode	[udt].[SurrogateKeyString]	60	NULL allowed		
	Days	[udt].[SurrogateKeyString]	60	NULL allowed		
	Time	[udt].[ClassDuration]	60	NULL allowed		
	Hours	[udt].[SurrogateKeyFloat]	8	NULL allowed		
	Credits	[udt].[SurrogateKeyInt]	4	NULL allowed		
FK	InstructorID	[udt].[SurrogateKeyInt]	4	NULL allowed		
FK	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NULL allowed		
	DateAdded	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())
	DateOfLastUpdate	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())

#### Indexes

Key	Name	Key Columns	Unique
PK	PKClassCB1927A0B831B205	ClassID	True

#### Foreign Keys

Name	Columns
FK_Class_UserAuthorizationKey	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorizationKey]
InstructorID	InstructorID->[Department].[Instructor].[InstructorID]

#### **SQL Script**

```
CREATE TABLE [Course].[Class]
[ClassID] [udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[Enrollment] [udt].[SurrogateKeyInt] NULL,
[Limit] [udt].[SurrogateKeyInt] NULL,
[Section] [udt].[SurrogateKeyString] NULL,
[ClassCode] [udt].[SurrogateKeyString] NULL,
[Days] [udt].[SurrogateKeyString] NULL,
[Time] [udt].[ClassDuration] NULL,
[Hours] [udt].[SurrogateKeyFloat] NULL,
[Credits] [udt].[SurrogateKeyInt] NULL,
[InstructorID] [udt].[SurrogateKeyInt] NULL,
[UserAuthorizationKey] [udt].[SurrogateKeyInt] NULL,
[DateAdded] [udt].[DateAdded] NULL CONSTRAINT [DF Class DateAdded 1D7B6025] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [udt].[DateAdded] NULL CONSTRAINT [DF Class DateOfLas 1E6F845E] DEFAULT
) ON [PRIMARY]
ALTER TABLE [Course].[Class] ADD CONSTRAINT [PK Class CB1927A0B831B205] PRIMARY KEY CLUSTERED
([ClassID]) ON [PRIMARY]
ALTER TABLE [Course].[Class] ADD CONSTRAINT [FK Class UserAuthorizationKey] FOREIGN KEY ([User-
AuthorizationKey]) REFERENCES [DbSecurity].[UserAuthorization] ([UserAuthorizationKey])
ALTER TABLE [Course].[Class] ADD CONSTRAINT [InstructorID] FOREIGN KEY ([InstructorID])
REFERENCES [Department].[Instructor] ([InstructorID])
GO
```

#### Uses

[DbSecurity].[UserAuthorization]
[Department].[Instructor]
[udt].[ClassDuration]
[udt].[DateAdded]
[udt].[SurrogateKeyFloat]
[udt].[SurrogateKeyInt]
[udt].[SurrogateKeyString]
Course

### Used By

[Course].[CoursesCLassMode] [Project3].[Load\_ClassTable] [Project3].[Load\_CourseBridgeTable] [Project3].[ShowTableStatusRowCount] [Project3].[TruncateData]

# ☐ [Course].[Course]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	1627
Created	12:29:14 AM Tuesday, May 14, 2024
Last Modified	10:56:06 PM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PKP C	CourseID	[udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	CourseCode	[udt].[SurrogateKeyString]	60	NULL allowed		
	Description	[udt].[workflowstring]	200	NULL allowed		
FK	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NULL allowed		
	DateAdded	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())
	DateOfLastUpdate	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())

#### Indexes

Key	Name	Key Columns	Unique
PK C	PKCourseC92D71877CE9A24E	CourselD	True

#### Foreign Keys

Name	Columns
FK_Course_UserAuthorizationKey	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorizationKey]

```
CREATE TABLE [Course].[Course]
(
[CourseID] [udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
```

```
[CourseCode] [udt].[SurrogateKeyString] NULL,

[Description] [udt].[workflowstring] NULL,

[UserAuthorizationKey] [udt].[SurrogateKeyInt] NULL,

[DateAdded] [udt].[DateAdded] NULL CONSTRAINT [DF__Course__DateAdde__15DA3E5D] DEFAULT

(sysdatetime()),

[DateOfLastUpdate] [udt].[DateAdded] NULL CONSTRAINT [DF__Course__DateOfLa__16CE6296] DEFAULT

(sysdatetime())

) ON [PRIMARY]

GO

ALTER TABLE [Course].[Course] ADD CONSTRAINT [PK__Course__C92D71877CE9A24E] PRIMARY KEY CLUSTERED

([CourseID]) ON [PRIMARY]

GO

ALTER TABLE [Course].[Course] ADD CONSTRAINT [FK_Course_UserAuthorizationKey] FOREIGN KEY ([User-AuthorizationKey]) REFERENCES [DbSecurity].[UserAuthorization] ([UserAuthorizationKey])

GO
```

[DbSecurity].[UserAuthorization]
[udt].[DateAdded]
[udt].[SurrogateKeyInt]
[udt].[SurrogateKeyString]
[udt].[workflowstring]
Course

#### **Used By**

[Course].[CoursesCLassMode] [Project3].[Load\_CourseBridgeTable] [Project3].[Load\_CourseTable] [Project3].[ShowTableStatusRowCount] [Project3].[TruncateData]

# **■** [Course].[CoursesCLassMode]

#### **Properties**

Property	Value
Row Count (~)	4522
Created	12:29:39 AM Tuesday, May 14, 2024
Last Modified	10:56:06 PM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PKPFKP C	Courseld	[udt].[SurrogateKeyInt]	4	NOT NULL	
PKPFKP C	ClassID	[udt].[SurrogateKeyInt]	4	NOT NULL	
PKPFKP C	ModelD	[udt].[SurrogateKeyInt]	4	NOT NULL	
FK	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NULL allowed	
	DateAdded	[udt].[DateAdded]	8	NULL allowed	(sysdatetime())
	DateOfLastUpdate	[udt].[DateAdded]	8	NULL allowed	(sysdatetime())

#### Indexes

Key	Name	Key Columns	Unique
PKP C	PKCoursesC4253CFCF7B3D3BA2	ClassID, Courseld, ModeID	True

#### Foreign Keys

Name	Columns
ClassId	ClassID->[Course].[Class].[ClassID]
Courseld	CourseId->[Course].[CourseID]
FK_CourseBridge_UserAuthorizationKey	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorizationKey]
Modeld	ModeID->[Course].[Mode_Of_Instruction].[ModeID]

```
CREATE TABLE [Course].[CoursesCLassMode]
(
[CourseId] [udt].[SurrogateKeyInt] NOT NULL,
[ClassID] [udt].[SurrogateKeyInt] NOT NULL,
```

```
[ModeID] [udt].[SurrogateKeyInt] NOT NULL,
[UserAuthorizationKey] [udt].[SurrogateKeyInt] NULL,
[DateAdded] [udt].[DateAdded] NULL CONSTRAINT [DF CoursesCL DateA 214BF109] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [udt].[DateAdded] NULL CONSTRAINT [DF CoursesCL DateO 22401542] DEFAULT
(sysdatetime())
) ON [PRIMARY]
ALTER TABLE [Course].[CoursesCLassMode] ADD CONSTRAINT [PK CoursesC 4253CFCF7B3D3BA2] PRIMARY
KEY CLUSTERED ([ClassID], [CourseId], [ModeID]) ON [PRIMARY]
ALTER TABLE [Course].[CoursesCLassMode] ADD CONSTRAINT [ClassId] FOREIGN KEY ([ClassID])
REFERENCES [Course].[Class] ([ClassID])
ALTER TABLE [Course].[CoursesCLassMode] ADD CONSTRAINT [CourseId] FOREIGN KEY ([CourseId])
REFERENCES [Course].[Course] ([CourseID])
ALTER TABLE [Course].[CoursesCLassMode] ADD CONSTRAINT [FK_CourseBridge_UserAuthorizationKey]
FOREIGN KEY ([UserAuthorizationKey]) REFERENCES [DbSecurity].[UserAuthorization] ([User-
AuthorizationKey])
ALTER TABLE [Course].[CoursesCLassMode] ADD CONSTRAINT [Modeld] FOREIGN KEY ([ModelD]) REFERENCES
[Course].[Mode Of Instruction] ([ModeID])
```

[Course].[Class]
[Course].[Course]
[Course].[Mode\_Of\_Instruction]
[DbSecurity].[UserAuthorization]
[udt].[DateAdded]
[udt].[SurrogateKeyInt]
Course

#### **Used By**

[Project3].[Load\_CourseBridgeTable] [Project3].[ShowTableStatusRowCount] [Project3].[TruncateData]

# [Course].[Mode\_Of\_Instruction]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	4
Created	12:29:21 AM Tuesday, May 14, 2024
Last Modified	10:56:06 PM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PKP C	ModelD	[udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	ModeName	[udt].[workflowstring]	200	NOT NULL		
FK	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NULL allowed		
	DateAdded	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())
	DateOfLastUpdate	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())

#### Indexes

Key	Name	Key Columns	Unique
PKC	PKMode_OfD83F75E470110C62	ModelD	True

#### Foreign Keys

Name	Columns
FK_MOI_UserAuthorizationKey	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorizationKey]

```
CREATE TABLE [Course].[Mode_Of_Instruction]

(
[ModeID] [udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),

[ModeName] [udt].[workflowstring] NOT NULL,

[UserAuthorizationKey] [udt].[SurrogateKeyInt] NULL,

[DateAdded] [udt].[DateAdded] NULL CONSTRAINT [DF_Mode_Of_I_DateA_19AACF41] DEFAULT

(sysdatetime()),

[DateOfLastUpdate] [udt].[DateAdded] NULL CONSTRAINT [DF_Mode_Of_I_DateO_1A9EF37A] DEFAULT

(sysdatetime())
```

```
ON [PRIMARY]

GO

ALTER TABLE [Course].[Mode_Of_Instruction] ADD CONSTRAINT [PK__Mode_Of___D83F75E470110C62]

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

GO

ALTER TABLE [Course].[Mode_Of_Instruction] ADD CONSTRAINT [FK_MOI_UserAuthorizationKey] FOREIGN

KEY ([UserAuthorizationKey]) REFERENCES [DbSecurity].[UserAuthorization] ([UserAuthorizationKey])

GO
```

[DbSecurity].[UserAuthorization] [udt].[DateAdded] [udt].[SurrogateKeyInt] [udt].[workflowstring] Course

#### **Used By**

[Course].[CoursesCLassMode] [Project3].[Load\_CourseBridgeTable] [Project3].[Load\_ModeOfInstruction] [Project3].[ShowTableStatusRowCount] [Project3].[TruncateData]

## [DbSecurity].[UserAuthorization]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	8
Created	12:27:57 AM Tuesday, May 14, 2024
Last Modified	10:56:06 PM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PK C	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	ClassTime	[udt].[ClassTime]	10	NULL allowed		('7:45')
	IndividualProject	[udt].[IndividualProject]	120	NULL allowed		('PROJECT 3')
	GroupMemberLastName	[udt].[LastName]	70	NOT NULL		
	GroupMemberFirstName	[udt].[FirstName]	40	NOT NULL		
	GroupName	[udt].[GroupName]	40	NOT NULL		('GROUP NG_3')
	DateAdded	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())

#### Indexes

Key	Name	Key Columns	Unique
PK C	PK_UserAuth_0FEC36CBA715989B	UserAuthorizationKey	True

```
CREATE TABLE [DbSecurity].[UserAuthorization]
[UserAuthorizationKey] [udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[ClassTime] [udt].[ClassTime] NULL CONSTRAINT [DF UserAutho Class 756D6ECB] DEFAULT ('7:45'),
[IndividualProject] [udt].[IndividualProject] NULL CONSTRAINT [DF_UserAutho_Indiv_76619304]
DEFAULT ('PROJECT 3'),
[GroupMemberLastName] [udt].[LastName] NOT NULL,
[GroupMemberFirstName] [udt].[FirstName] NOT NULL,
[GroupName] [udt].[GroupName] NOT NULL CONSTRAINT [DF_UserAutho_Group_7755B73D] DEFAULT
('GROUP NG_3'),
[DateAdded] [udt].[DateAdded] NULL CONSTRAINT [DF_UserAutho_DateA_7849DB76] DEFAULT
```

```
(sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [DbSecurity].[UserAuthorization] ADD CONSTRAINT [PK_UserAuth_OFEC36CBA715989B]
PRIMARY KEY CLUSTERED ([UserAuthorizationKey]) ON [PRIMARY]
GO
```

[udt].[ClassTime]

[udt].[DateAdded]

[udt].[FirstName]

[udt].[GroupName]

[udt].[IndividualProject]

[udt].[LastName]

[udt].[SurrogateKeyInt]

**DbSecurity** 

#### **Used By**

[Course].[Class]

[Course].[Course]

[Course].[CoursesCLassMode]

[Course].[Mode\_Of\_Instruction]

[Department].[Departments]

[Department].[Instructor]

[Department].[InstructorDepartment]

[Location].[BuildingLocation]

[Location].[RoomLocation]

# **■** [Department].[Departments]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	85
Created	12:28:50 AM Tuesday, May 14, 2024
Last Modified	10:56:06 PM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PK C	DepartmentID	[udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	DepartmentAbv	[udt].[SurrogateKeyString]	60	NOT NULL		
	DepartmentName	[udt].[workflowstring]	200	NOT NULL		
FK	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NULL allowed		
	DateAdded	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())
	DateOfLastUpdate	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())

#### Indexes

Key	Name	Key Columns	Unique
PKP G	PKDepartmeB2079BCDE8D5649C	DepartmentID	True

#### Foreign Keys

Name	Columns
FK_Department_UserAuthorizationKey	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorizationKey]

```
CREATE TABLE [Department].[Departments]

(
[DepartmentID] [udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),

[DepartmentAbv] [udt].[SurrogateKeyString] NOT NULL,

[DepartmentName] [udt].[workflowstring] NOT NULL,
```

```
[UserAuthorizationKey] [udt].[SurrogateKeyInt] NULL,

[DateAdded] [udt].[DateAdded] NULL CONSTRAINT [DF__Departmen__DateA__0880433F] DEFAULT (sysdatetime()),

[DateOfLastUpdate] [udt].[DateAdded] NULL CONSTRAINT [DF__Departmen__DateO__09746778] DEFAULT (sysdatetime())

) ON [PRIMARY]

GO

ALTER TABLE [Department].[Departments] ADD CONSTRAINT [PK__Departme__B2079BCDE8D5649C] PRIMARY KEY CLUSTERED ([DepartmentID]) ON [PRIMARY]

GO

ALTER TABLE [Department].[Departments] ADD CONSTRAINT [FK__Department_UserAuthorizationKey]

FOREIGN KEY ([UserAuthorizationKey]) REFERENCES [DbSecurity].[UserAuthorization] ([User-AuthorizationKey])

GO
```

[DbSecurity].[UserAuthorization]

[udt].[DateAdded]

[udt].[SurrogateKeyInt]

[udt].[SurrogateKeyString]

[udt].[workflowstring]

Department

#### **Used By**

[Department].[InstructorDepartment]

 $[Project 3]. [Load\_Department Bridge Table] \\$ 

[Project3].[Load\_DepartmentTable]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

# ■ [Department].[Instructor]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	1597
Created	12:28:55 AM Tuesday, May 14, 2024
Last Modified	10:56:06 PM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PKP C	InstructorID	[udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	FirstName	[udt].[workflowstring]	200	NOT NULL		
	LastName	[udt].[workflowstring]	200	NOT NULL		
	FullName	[udt].[workflowstring]	200	NOT NULL		
FK	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NULL allowed		
	DateAdded	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())
	DateOfLastUpdate	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())

#### Indexes

Key	Name	Key Columns	Unique
PKP C	PKInstruct9D010B7B745E17DC	InstructorID	True

#### Foreign Keys

Name	Columns
FK_Instructor_UserAuthorizationKey	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorizationKey]

```
CREATE TABLE [Department].[Instructor]

(
[InstructorID] [udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),

[FirstName] [udt].[workflowstring] NOT NULL,

[LastName] [udt].[workflowstring] NOT NULL,
```

```
[FullName] [udt].[workflowstring] NOT NULL,

[UserAuthorizationKey] [udt].[SurrogateKeyInt] NULL,

[DateAdded] [udt].[DateAdded] NULL CONSTRAINT [DF_Instructo_DateA_0C50D423] DEFAULT

(sysdatetime()),

[DateOfLastUpdate] [udt].[DateAdded] NULL CONSTRAINT [DF_Instructo_DateO_0D44F85C] DEFAULT

(sysdatetime())

) ON [PRIMARY]

GO

ALTER TABLE [Department].[Instructor] ADD CONSTRAINT [PK_Instruct_9D010B7B745E17DC] PRIMARY KEY

CLUSTERED ([InstructorID]) ON [PRIMARY]

GO

ALTER TABLE [Department].[Instructor] ADD CONSTRAINT [FK_Instructor_UserAuthorizationKey] FOREIGN

KEY ([UserAuthorizationKey]) REFERENCES [DbSecurity].[UserAuthorization] ([UserAuthorizationKey])

GO
```

[DbSecurity].[UserAuthorization]

[udt].[DateAdded]

[udt].[SurrogateKeyInt]

[udt].[workflowstring]

Department

#### **Used By**

[Course].[Class]

[Department].[InstructorDepartment]

[Project3].[Load\_ClassTable]

 $[Project 3]. [Load\_Department Bridge Table] \\$ 

[Project3].[Load\_InstructorTable]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

# [Department].[InstructorDepartment]

#### **Properties**

Property	Value
Row Count (~)	1755
Created	12:29:10 AM Tuesday, May 14, 2024
Last Modified	10:56:06 PM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PKPFKP C	InstructorId	[udt].[SurrogateKeyInt]	4	NOT NULL	
PKPFKP C	DepartmentId	[udt].[SurrogateKeyInt]	4	NOT NULL	
FK	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NULL allowed	
	DateAdded	[udt].[DateAdded]	8	NULL allowed	(sysdatetime())
	DateOfLastUpdate	[udt].[DateAdded]	8	NULL allowed	(sysdatetime())

#### Indexes

Key	Name	Key Columns	Unique
PK C	PKInstruct56217325C8132324	InstructorId, DepartmentId	True

#### Foreign Keys

Name	Columns
DepartmentID	DepartmentId->[Department].[Departments].[DepartmentID]
FK_DepBridge_UserAuthorizationKey	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorizationKey]
InstructorID	InstructorId->[Department].[Instructor].[InstructorID]

```
CREATE TABLE [Department].[InstructorDepartment]
[InstructorId] [udt].[SurrogateKeyInt] NOT NULL,
[DepartmentId] [udt].[SurrogateKeyInt] NOT NULL,
[{\tt UserAuthorizationKey}] \ [{\tt udt}] \, . \, [{\tt SurrogateKeyInt}] \ {\tt NULL} \text{,}
[DateAdded] [udt].[DateAdded] NULL CONSTRAINT [DF Instructo DateA 10216507] DEFAULT
(sysdatetime()),
```

```
[DateOfLastUpdate] [udt].[DateAdded] NULL CONSTRAINT [DF_Instructo_DateO_11158940] DEFAULT (sysdatetime())
) ON [PRIMARY]

GO
ALTER TABLE [Department].[InstructorDepartment] ADD CONSTRAINT [PK_Instruct_56217325C8132324]
PRIMARY KEY CLUSTERED ([InstructorId], [DepartmentId]) ON [PRIMARY]

GO
ALTER TABLE [Department].[InstructorDepartment] ADD CONSTRAINT [DepartmentID] FOREIGN KEY ([DepartmentId]) REFERENCES [Department].[Departments] ([DepartmentID])

GO
ALTER TABLE [Department].[InstructorDepartment] ADD CONSTRAINT [FK_DepBridge_UserAuthorization-Key] FOREIGN KEY ([UserAuthorizationNey]) REFERENCES [DbSecurity].[UserAuthorization] ([User-AuthorizationKey])

GO
ALTER TABLE [Department].[InstructorDepartment] ADD CONSTRAINT [InstructorID] FOREIGN KEY ([InstructorId]) REFERENCES [Department].[Instructor] ([InstructorID])

GO
```

[DbSecurity].[UserAuthorization]
[Department].[Departments]
[Department].[Instructor]
[udt].[DateAdded]
[udt].[SurrogateKeyInt]
Department

#### **Used By**

[Project3].[Load\_DepartmentBridgeTable] [Project3].[ShowTableStatusRowCount] [Project3].[TruncateData]

# ☐ [Location].[BuildingLocation]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	24
Created	12:28:19 AM Tuesday, May 14, 2024
Last Modified	10:56:06 PM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PK C	BuildingLocationID	[udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	BuildingLocationAbv	[udt].[SurrogateKeyString]	60	NOT NULL		
	BuildingLocationName	[udt].[SurrogateKeyString]	60	NOT NULL		
FK	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NULL allowed		
	DateAdded	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())
	DateOfLastUpdate	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())

#### Indexes

Key	Name	Key Columns	Unique
PKP C	PK_Building_F5F37FBFBC907ED2	BuildingLocationID	True

#### Foreign Keys

Name	Columns
FK_Building_UserAuthorizationKey	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorizationKey]

```
CREATE TABLE [Location].[BuildingLocation]

(
[BuildingLocationID] [udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),

[BuildingLocationAbv] [udt].[SurrogateKeyString] NOT NULL,

[BuildingLocationName] [udt].[SurrogateKeyString] NOT NULL,
```

```
[UserAuthorizationKey] [udt].[SurrogateKeyInt] NULL,

[DateAdded] [udt].[DateAdded] NULL CONSTRAINT [DF_BuildingL_DateA_00DF2177] DEFAULT (sysdatetime()),

[DateOfLastUpdate] [udt].[DateAdded] NULL CONSTRAINT [DF_BuildingL_DateO_01D345B0] DEFAULT (sysdatetime())

) ON [PRIMARY]

GO

ALTER TABLE [Location].[BuildingLocation] ADD CONSTRAINT [PK_Building_F5F37FBFBC907ED2] PRIMARY KEY CLUSTERED ([BuildingLocationID]) ON [PRIMARY]

GO

ALTER TABLE [Location].[BuildingLocation] ADD CONSTRAINT [FK_Building_UserAuthorizationKey]

FOREIGN KEY ([UserAuthorizationKey]) REFERENCES [DbSecurity].[UserAuthorization] ([User-AuthorizationKey])

GO
```

[DbSecurity].[UserAuthorization] [udt].[DateAdded] [udt].[SurrogateKeyInt] [udt].[SurrogateKeyString]

Location

#### **Used By**

[Location].[RoomLocation]
[Project3].[Load\_BuildingLocation]
[Project3].[Load\_RoomLocationTable]
[Project3].[ShowTableStatusRowCount]
[Project3].[TruncateData]

# ☐ [Location].[RoomLocation]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	319
Created	12:28:31 AM Tuesday, May 14, 2024
Last Modified	10:56:06 PM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PKC	RoomLocationID	[udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
FK	BuildingLocationID	[udt].[SurrogateKeyInt]	4	NOT NULL		
	RoomLocationName	[udt].[SurrogateKeyString]	60	NOT NULL		
FK	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NULL allowed		
	DateAdded	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())
	DateOfLastUpdate	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())

#### Indexes

Key	Name	Key Columns	Unique
PKP C	PK_RoomLoca_874C55B92FEE71F4	RoomLocationID	True

# Foreign Keys

Name	Columns
BuildingLocationID	BuildingLocationID->[Location].[BuildingLocation].[BuildingLocationID]
FK_Room_UserAuthorizationKey	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorizationKey]

```
CREATE TABLE [Location].[RoomLocation]
(
[RoomLocationID] [udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
```

```
[BuildingLocationID] [udt].[SurrogateKeyInt] NOT NULL,
[RoomLocationName] [udt].[SurrogateKeyString] NOT NULL,
[UserAuthorizationKey] [udt].[SurrogateKeyInt] NULL,
[DateAdded] [udt].[DateAdded] NULL CONSTRAINT [DF_RoomLocat_DateA_04AFB25B] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [udt].[DateAdded] NULL CONSTRAINT [DF_RoomLocat_DateO_05A3D694] DEFAULT
(sysdatetime())
) ON [PRIMARY]

GO

ALTER TABLE [Location].[RoomLocation] ADD CONSTRAINT [PK_RoomLoca_874C55B92FEE71F4] PRIMARY KEY
CLUSTERED ([RoomLocationID]) ON [PRIMARY]

GO

ALTER TABLE [Location].[RoomLocation] ADD CONSTRAINT [BuildingLocationID] FOREIGN KEY ([Building-LocationID]) REFERENCES [Location].[BuildingLocation] ([BuildingLocationID])

GO

ALTER TABLE [Location].[RoomLocation] ADD CONSTRAINT [FK_Room_UserAuthorizationKey] FOREIGN KEY
([UserAuthorizationKey]) REFERENCES [DbSecurity].[UserAuthorization] ([UserAuthorizationKey])
```

[DbSecurity].[UserAuthorization]
[Location].[BuildingLocation]
[udt].[DateAdded]
[udt].[SurrogateKeyInt]
[udt].[SurrogateKeyString]
Location

#### **Used By**

[Project3].[Load\_RoomLocationTable] [Project3].[ShowTableStatusRowCount] [Project3].[TruncateData]

# [process].[WorkflowSteps]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	36
Created	12:28:09 AM Tuesday, May 14, 2024
Last Modified	12:28:09 AM Tuesday, May 14, 2024

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PK C	WorkflowStepsKey	[udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	WorkflowStepsDescription	[udt].[workflowstring]	200	NOT NULL		
	WorkflowStepsTableRowCount	[udt].[Rowcount]	4	NULL allowed		((0))
	StartingDateTime	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())
	EndDateTime	[udt].[DateAdded]	8	NULL allowed		(sysdatetime())
	ClassTime	[udt].[ClassTime]	10	NULL allowed		('7:45')
	UserAuthorizationKey	[udt].[SurrogateKeyInt]	4	NOT NULL		

#### Indexes

Key	Name	Key Columns	Unique
PKP C	PKWorkflow59E2A56DA69E1E7D	WorkflowStepsKey	True

```
CREATE TABLE [process].[WorkflowSteps]
[WorkflowStepsKey] [udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[WorkflowStepsDescription] [udt].[workflowstring] NOT NULL,
[WorkflowStepsTableRowCount] [udt].[Rowcount] NULL CONSTRAINT [DF__WorkflowS__Workf__7B264821]
DEFAULT ((0)),
[StartingDateTime] [udt].[DateAdded] NULL CONSTRAINT [DF_WorkflowS_Start_7C1A6C5A] DEFAULT
(sysdatetime()),
[EndDateTime] [udt].[DateAdded] NULL CONSTRAINT [DF_WorkflowS_EndDa_7D0E9093] DEFAULT
```

```
(sysdatetime()),
[ClassTime] [udt].[ClassTime] NULL CONSTRAINT [DF_WorkflowS_Class_7E02B4CC] DEFAULT ('7:45'),
[UserAuthorizationKey] [udt].[SurrogateKeyInt] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [process].[WorkflowSteps] ADD CONSTRAINT [PK_Workflow_59E2A56DA69E1E7D] PRIMARY KEY CLUSTERED ([WorkflowStepsKey]) ON [PRIMARY]
GO
```

[udt].[ClassTime]

[udt].[DateAdded]

[udt].[Rowcount]

[udt].[SurrogateKeyInt]

[udt].[workflowstring]

process

#### **Used By**

[Project3].[TrackWorkFlow]

# [Uploadfile].[CurrentSemesterCourseOfferings]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Неар	True
Row Count (~)	4522
Created	4:31:20 PM Monday, April 12, 2021
Last Modified	4:33:21 PM Monday, April 12, 2021

#### Columns

Name	Data Type	Max Length (Bytes)	Nullability	Default
Semester	varchar(50)	50	NULL allowed	('Current Semester')
Sec	varchar(50)	50	NULL allowed	
Code	varchar(50)	50	NULL allowed	
Course (hr, crd)	varchar(50)	50	NULL allowed	
Description	varchar(50)	50	NULL allowed	
Day	varchar(50)	50	NULL allowed	
Time	varchar(50)	50	NULL allowed	
Instructor	varchar(50)	50	NULL allowed	
Location	varchar(50)	50	NULL allowed	
Enrolled	varchar(50)	50	NULL allowed	
Limit	varchar(50)	50	NULL allowed	
Mode of Instruction	varchar(50)	50	NULL allowed	

```
CREATE TABLE [Uploadfile].[CurrentSemesterCourseOfferings]

(
[Semester] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL CONSTRAINT [DF_Current-SemesterCourseOfferings_Semester] DEFAULT ('Current Semester'),

[Sec] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[Code] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[Course (hr, crd)] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[Description] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[Time] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[Instructor] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[Location] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[Enrolled] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[Enrolled] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
```

```
[Limit] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[Mode of Instruction] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

) ON [PRIMARY]

GO
```

Uploadfile

#### **Used By**

[Project3].[Load\_BuildingLocation]

[Project3].[Load\_ClassTable]

[Project3].[Load\_CourseBridgeTable]

[Project3].[Load\_CourseTable]

[Project3].[Load\_DepartmentBridgeTable]

[Project3].[Load\_DepartmentTable]

[Project3].[Load\_InstructorTable]

[Project3].[Load\_ModeOfInstruction]

[Project3].[Load\_RoomLocationTable]



Objects

#### Name

 $Utils.uvw\_FindColumnDefinitionPlusDefaultAndCheckConstraint$ 

# [Utils].[uvw\_FindColumnDefinitionPlusDefaultAndCheckConstraint]

## **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls On	True
Quoted Identifier On	True
Created	9:19:15 AM Sunday, October 27, 2019
Last Modified	9:19:15 AM Sunday, October 27, 2019

### 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 VIEW [Utils].[uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint] AS

SELECT CONCAT(tbl.TABLE_SCHEMA, '.', tbl.TABLE_NAME) AS FullyQualifiedTableName,

tbl.TABLE_SCHEMA AS SchemaName,

tbl.TABLE_NAME AS TableName,

col.COLUMN_NAME AS ColumnName,

col.ORDINAL_POSITION AS OrdinalPosition,

CONCAT(col.DOMAIN_SCHEMA, '.', col.DOMAIN_NAME) AS FullyQualifiedDomainName,

col.DOMAIN_NAME AS DomainName,
```

```
CASE
            WHEN col.DATA TYPE = 'varchar'
            THEN CONCAT('varchar(', CHARACTER MAXIMUM LENGTH, ')')
            WHEN col.DATA TYPE = 'nvarchar'
            THEN CONCAT('nvarchar(', CHARACTER MAXIMUM LENGTH, ')')
            WHEN col.DATA TYPE = 'nchar'
            THEN CONCAT('nchar(', CHARACTER MAXIMUM LENGTH, ')')
             WHEN col.DATA TYPE = 'numeric'
            THEN CONCAT('numeric(', NUMERIC PRECISION RADIX, ', ',
                        NUMERIC SCALE, ')')
             WHEN col.DATA_TYPE = 'decimal'
            THEN CONCAT('decimal(', NUMERIC_PRECISION_RADIX, ', ',
                       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
                  ( TABLE TYPE = 'BASE TABLE' )
         WHERE
        ) AS tbl
        INNER JOIN ( SELECT TABLE CATALOG ,
                            TABLE SCHEMA ,
                            TABLE NAME ,
                            COLUMN NAME ,
                            ORDINAL POSITION ,
                            COLUMN DEFAULT ,
                            IS NULLABLE ,
                            DATA TYPE ,
                            CHARACTER MAXIMUM LENGTH ,
                            CHARACTER OCTET LENGTH ,
                            NUMERIC PRECISION ,
                            NUMERIC PRECISION RADIX ,
                            NUMERIC SCALE ,
                            DATETIME PRECISION ,
                            CHARACTER SET CATALOG ,
                            CHARACTER SET SCHEMA ,
                            CHARACTER SET NAME ,
                            COLLATION CATALOG ,
                            COLLATION SCHEMA ,
                            COLLATION NAME ,
                            DOMAIN CATALOG ,
                            DOMAIN SCHEMA ,
                            DOMAIN NAME
                     FROM INFORMATION SCHEMA.COLUMNS
                   ) AS col ON col.TABLE CATALOG = tbl.TABLE CATALOG
```

```
AND col.TABLE SCHEMA = tbl.TABLE SCHEMA
                              AND col.TABLE NAME = tbl.TABLE NAME
       LEFT OUTER JOIN ( SELECT t.name AS TableName ,
                                   SCHEMA_NAME(s.schema_id) AS SchemaName ,
                                   ac.name AS ColumnName ,
                                   d.name AS DefaultName
                         FROM
                                  sys.all columns AS ac
                                   INNER JOIN sys.tables AS t ON ac.object id = t.object id
                                   INNER JOIN sys.schemas AS s ON t.schema id = s.schema id
                                   INNER JOIN sys.default_constraints AS d ON
ac.default object id = d.object id
                       ) AS dcn ON dcn.SchemaName = tbl.TABLE SCHEMA
                                   AND dcn.TableName = tbl.TABLE NAME
                                   AND dcn.ColumnName = col.COLUMN NAME
       LEFT OUTER JOIN ( SELECT
                                   cu.TABLE CATALOG ,
                                   cu.TABLE SCHEMA ,
                                    cu.TABLE NAME ,
                                   cu.COLUMN_NAME ,
                                   c.CONSTRAINT CATALOG ,
                                    c.CONSTRAINT SCHEMA ,
                                   c.CONSTRAINT NAME ,
                                   c.CHECK CLAUSE
                         FROM
                                   INFORMATION SCHEMA.CONSTRAINT COLUMN USAGE
                                   AS cu
                                   INNER JOIN INFORMATION SCHEMA.CHECK CONSTRAINTS
                                   AS c ON c.CONSTRAINT NAME = cu.CONSTRAINT NAME
                       ) AS cc ON cc.TABLE_SCHEMA = tbl.TABLE_SCHEMA
                                  AND cc.TABLE_NAME = tbl.TABLE_NAME
                                  AND cc.COLUMN NAME = col.COLUMN NAME
GO
```

### Uses

Utils

# ■ Stored Procedures

# Objects

Name
Project3.AddForeignKeysToQueensClassSchedule
Project3.DropForeignKeysFromQueensClassSchedule
Project3.Load_BuildingLocation
Project3.Load_ClassTable
Project3.Load_CourseBridgeTable
Project3.Load_CourseTable
Project3.Load_DepartmentBridgeTable
Project3.Load_DepartmentTable
Project3.Load_InstructorTable
Project3.Load_ModeOfInstruction
Project3.Load_RoomLocationTable
Project3.LoadData
Project3.ShowTableStatusRowCount
Project3.TrackWorkFlow
Project3.TruncateData

# [Project3].[AddForeignKeysToQueensClassSchedule]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- -----
-- Author:
               <Ben>
-- Create date: <5/13/2024>
-- Description: <Add Foreign Keys to QueensClassSchedule DB>
-- -----
CREATE PROCEDURE [Project3].[AddForeignKeysToQueensClassSchedule]
   @UserAuthorizationKey INT
AS
BEGIN
   ALTER TABLE [Course].[Class]
       ADD
          CONSTRAINT [InstructorID] FOREIGN KEY (InstructorId)
       REFERENCES [Department].[Instructor] (InstructorId),
              CONSTRAINT [FK Class UserAuthorizationKey] FOREIGN KEY (UserAuthorizationKey)
       REFERENCES [DbSecurity].[UserAuthorization] (UserAuthorizationKey)
   ALTER TABLE [Course].[Course]
   ADD
            CONSTRAINT [FK Course UserAuthorizationKey] FOREIGN KEY (UserAuthorizationKey)
       REFERENCES [DbSecurity].[UserAuthorization] (UserAuthorizationKey)
       ALTER TABLE [Course].[Mode Of Instruction]
            CONSTRAINT [FK MOI UserAuthorizationKey] FOREIGN KEY (UserAuthorizationKey)
       REFERENCES [DbSecurity].[UserAuthorization] (UserAuthorizationKey)
```

```
ALTER TABLE [Course].[CoursesClassMode]
       CONSTRAINT [CourseId] FOREIGN KEY (CourseId)
      REFERENCES [Course].[Course] (CourseId),
            CONSTRAINT [ModeId] FOREIGN KEY (ModeId)
      REFERENCES [Course].[Mode Of Instruction] (ModeId),
            CONSTRAINT [ClassId] FOREIGN KEY (ClassId)
      REFERENCES [Course].[Class] (ClassId),
         CONSTRAINT [FK CourseBridge UserAuthorizationKey] FOREIGN KEY (UserAuthorizationKey)
      REFERENCES [DbSecurity].[UserAuthorization] (UserAuthorizationKey)
       ALTER TABLE [Department].[Instructor]
   ADD
       CONSTRAINT [FK Instructor UserAuthorizationKey] FOREIGN KEY (UserAuthorizationKey)
      REFERENCES [DbSecurity].[UserAuthorization] (UserAuthorizationKey)
     ALTER TABLE [Department].[Departments]
       CONSTRAINT [FK Department UserAuthorizationKey] FOREIGN KEY (UserAuthorizationKey)
     REFERENCES [DbSecurity].[UserAuthorization] (UserAuthorizationKey)
       ALTER TABLE [Department].[InstructorDepartment]
   ADD
       CONSTRAINT [InstructorID] FOREIGN KEY (InstructorId)
        REFERENCES Department.Instructor (InstructorID),
        CONSTRAINT [DepartmentID] FOREIGN KEY (DepartmentId)
        REFERENCES Department.Departments (DepartmentID),
        CONSTRAINT [FK DepBridge UserAuthorizationKey] FOREIGN KEY (UserAuthorizationKey)
      REFERENCES [DbSecurity].[UserAuthorization] (UserAuthorizationKey)
       ALTER TABLE [Location].[BuildingLocation]
        ADD
               CONSTRAINT [FK Building UserAuthorizationKey] FOREIGN KEY (UserAuthorizationKey)
              REFERENCES [DbSecurity].[UserAuthorization] (UserAuthorizationKey)
       ALTER TABLE [Location].[RoomLocation]
        ADD CONSTRAINT [BuildingLocationID] FOREIGN KEY (BuildingLocationID)
            REFERENCES [Location].[BuildingLocation] (BuildingLocationId),
               CONSTRAINT [FK Room UserAuthorizationKey] FOREIGN KEY (UserAuthorizationKey)
         REFERENCES [DbSecurity].[UserAuthorization] (UserAuthorizationKey)
   EXEC [Project3].[TrackWorkFlow] @WorkFlowStepsDescription = 'Add Foreign Keys to QueensClass-
Schedule DB'.
   @UserAuthorizationKey = @UserAuthorizationKey,
   @WorkflowStepsTableRowCount = @@ROWCOUNT;
END
GO
```

Project > localhost,13001 > User databases > QueensClassSchedule > Programmability > Stored Procedures > Project3.AddForeignKeysToQueensClassSchedule

Uses

[Project3].[TrackWorkFlow]

Used By

Project3

# [Project3].[DropForeignKeysFromQueensClassSchedule]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- -----
-- Author:
               <Ben>
-- Create date: <5/13/2024>
-- Description: <Drop Foreign Keys to QueensClassSchedule DB>
-- -----
CREATE PROCEDURE [Project3].[DropForeignKeysFromQueensClassSchedule]
   @UserAuthorizationKey INT
AS
BEGIN
   ALTER TABLE [Course].[Class]
   DROP CONSTRAINT IF EXISTS InstructorID, FK Class UserAuthorizationKey;
   ALTER TABLE [Course].[Course]
   DROP CONSTRAINT IF EXISTS FK Course UserAuthorizationKey;
   ALTER TABLE [Course]. [Mode Of Instruction]
   DROP CONSTRAINT IF EXISTS FK MOI UserAuthorizationKey;
   ALTER TABLE [Course].[CoursesClassMode]
   DROP CONSTRAINT IF EXISTS Classid, Modeid, Courseid, FK_CourseBridge_UserAuthorizationKey;
   ALTER TABLE [Department].[Instructor]
   DROP CONSTRAINT IF EXISTS FK Instructor UserAuthorizationKey;
   ALTER TABLE [Department].[Departments]
   DROP CONSTRAINT IF EXISTS FK_Department_UserAuthorizationKey;
   ALTER TABLE [Department].[InstructorDepartment]
   DROP CONSTRAINT IF EXISTS InstructorID, DepartmentID, FK_DepBridge_UserAuthorizationKey;
```

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.Drop-ForeignKeysFromQueensClassSchedule

```
ALTER TABLE [Location].[BuildingLocation]

DROP CONSTRAINT IF EXISTS Classid, FK_Building_UserAuthorizationKey;

ALTER TABLE [Location].[RoomLocation]

Drop CONSTRAINT if EXISTS BuildingLocationID, FK_Room_UserAuthorizationKey

-- now we just log the work :D

EXEC [Project3].[TrackWorkFlow] @WorkFlowStepsDescription = 'Drop Foreign Keys from Queens-ClassSchedule DB',

@UserAuthorizationKey = @UserAuthorizationKey,

@WorkflowStepsTableRowCount = @@ROWCOUNT;

END;

GO
```

### Uses

[Project3].[TrackWorkFlow] Project3

**Used By** 

# [Project3].[Load\_BuildingLocation]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Ashish>
-- Create date: <5/13/2024>
-- Description: <Load Data into Building Location Table>
-- -----
CREATE PROCEDURE [Project3].[Load BuildingLocation]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   INSERT INTO [Location].BuildingLocation
    (BuildingLocationAbv,BuildingLocationName, UserAuthorizationKey)
   SELECT DISTINCT(SUBSTRING([Location], 1, CHARINDEX(' ', [Location], 1))),
       CASE (SUBSTRING([Location], 1, CHARINDEX(' ', [Location], 1)))
           WHEN 'IB' THEN 'I Building'
           WHEN 'GC' THEN 'Gertz Center'
           WHEN 'QH' THEN 'Queens Hall'
           WHEN 'SU' THEN 'Student Union'
           WHEN 'RA' THEN 'Rathhaus Hall'
           WHEN 'MU' THEN 'Music Building'
           WHEN 'KY' THEN 'Keily Hall'
           WHEN 'RZ' THEN 'Razran Hall'
           WHEN 'SB' THEN 'Science Building'
           WHEN 'CH' THEN 'Colwin Hall'
           WHEN 'HH' THEN 'Honors Hall'
           WHEN 'AR' THEN 'Alumni Hall'
           WHEN 'DY' THEN 'Delany Hall'
```

```
WHEN 'PH' THEN 'Powdermaker Hall'
            WHEN 'RO' THEN 'Rosenthal Library'
            WHEN 'FG' THEN 'FitzGerald Gym'
            WHEN 'CD' THEN 'Colden Auditorium'
            WHEN 'KG' THEN 'King Hall'
            WHEN 'JH' THEN 'Jefferson Hall'
            WHEN 'RE' THEN 'Remsen Hall'
            WHEN 'KP' THEN 'Klapper Hall'
            WHEN 'GT' THEN 'Goldstein Theatre'
            WHEN 'GB' THEN 'G Building'
            ELSE 'Unknown'
        END AS Building,
        @UserAuthorizationKey
    FROM uploadfile.CurrentSemesterCourseOfferings
   SELECT * FROM [Location].[BuildingLocation]
   EXEC [Project3].[TrackWorkFlow] @UserAuthorizationKey = @UserAuthorizationKey, @Workflow-
StepsDescription = 'Loading data into BuildingLocation table',
    @WorkflowStepsTableRowCount = @@ROWCOUNT;
END;
GO
```

#### Uses

[Location].[BuildingLocation]
[Uploadfile].[CurrentSemesterCourseOfferings]
[Project3].[TrackWorkFlow]
Project3

**Used By** 

# [Project3].[Load\_ClassTable]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Rahib>
-- Create date: <5/13/2024>
-- Description: <Load The class table>
-- -----
CREATE PROCEDURE [Project3].[Load ClassTable]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
    -- Insert into the customer table including the user auth key
   INSERT INTO Course.Class
   (Enrollment, [Limit], Section, ClassCode, [Days], [Time], [Hours], [Credits], InstructorID,
{\tt UserAuthorizationKey} \quad )
   SELECT Enrolled, [Limit], Sec, Code, [Day], [Time],
   (SUBSTRING([Course (hr, crd)], CHARINDEX('(', [Course (hr, crd)]) + 1, CHARINDEX(',', [Course
(hr, crd)]) - CHARINDEX('(', [Course (hr, crd)]) - 1)),
   (SUBSTRING([Course (hr, crd)], CHARINDEX(')', [Course (hr, crd)]) - 1, 1)),
   InstructorID,
   @UserAuthorizationKey
   FROM Uploadfile.CurrentSemesterCourseOfferings a
   JOIN Department.Instructor ON FullName = Instructor
   SELECT * FROM [Course].[Class]
    -- Insert the user into the Process.WorkFlowTable
   EXEC [Project3].[TrackWorkFlow] @UserAuthorizationKey = @UserAuthorizationKey, @Workflow-
```

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.Load\_-ClassTable

```
StepsDescription = 'Loading data into Class table',
    @WorkflowStepsTableRowCount = @@ROWCOUNT;
END
GO
```

## Uses

[Course].[Class]
[Department].[Instructor]
[Uploadfile].[CurrentSemesterCourseOfferings]
[Project3].[TrackWorkFlow]
Project3

# **Used By**

# [Project3].[Load\_CourseBridgeTable]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Rahib>
-- Create date: <5/13/2024>
-- Description: <Load The course bridge table>
-- -----
CREATE PROCEDURE [Project3].[Load CourseBridgeTable]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   -- Insert into the customer table including the user auth key
   INSERT INTO Course.CoursesCLassMode
       ClassID,
       CourseId,
       ModeID,
       UserAuthorizationKey
   SELECT DISTINCT ClassID, Courseid, a.ModeID, @UserAuthorizationKey
   FROM Uploadfile.CurrentSemesterCourseOfferings
   JOIN [Course].[Class] ON ClassCode = code
   JOIN [Course].[Course] ON CourseCode = SUBSTRING([Course (hr, crd)], 1, CHARINDEX('(',
[Course (hr, crd)])-1)
   \verb|JOIN [Course].[Mode\_Of\_Instruction]| a | ON [ModeName] = [Mode of Instruction]|
   SELECT * FROM [Course].[CoursesCLassMode]
```

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.Load\_-CourseBridgeTable

```
-- Insert the user into the Process.WorkFlowTable

EXEC [Project3].[TrackWorkFlow] @UserAuthorizationKey = @UserAuthorizationKey, @Workflow-StepsDescription = 'Loading data into Course Bridge table',

@WorkflowStepsTableRowCount = @@ROWCOUNT;

END

GO
```

#### Uses

[Course].[Class]
[Course].[Course]
[Course].[CoursesCLassMode]
[Course].[Mode\_Of\_Instruction]
[Uploadfile].[CurrentSemesterCourseOfferings]
[Project3].[TrackWorkFlow]
Project3

### **Used By**

# [Project3].[Load\_CourseTable]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Rahib>
-- Create date: <5/13/2024>
-- Description: <Load The course table>
-- -----
CREATE PROCEDURE [Project3].[Load CourseTable]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   -- Insert into the customer table including the user auth key
   INSERT INTO Course.Course
   (CourseCode, [Description], UserAuthorizationKey)
   SELECT DISTINCT(SUBSTRING([Course (hr, crd)], 1, CHARINDEX('(', [Course (hr, crd)])-1)),
   [Description],
   @UserAuthorizationKey
   FROM Uploadfile.CurrentSemesterCourseOfferings
   SELECT * FROM [Course].[Course]
   -- Insert the user into the Process.WorkFlowTable
   StepsDescription = 'Loading data into Course table',
   @WorkflowStepsTableRowCount = @@ROWCOUNT;
END
```

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.Load\_-CourseTable

GO

## Uses

[Course].[Course] [Uploadfile].[CurrentSemesterCourseOfferings] [Project3].[TrackWorkFlow] Project3

**Used By** 

# [Project3].[Load\_DepartmentBridgeTable]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Nak>
-- Create date: <5/13/2024>
-- Description: <Load Data into Department Bridge Table>
-- -----
CREATE PROCEDURE [Project3].[Load DepartmentBridgeTable]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   -- Insert into the customer table including the user auth key
   INSERT INTO Department.InstructorDepartment
       InstructorId,
       DepartmentId,
       UserAuthorizationKey
   SELECT DISTINCT InstructorId, DepartmentID, @UserAuthorizationKey
   FROM Uploadfile.CurrentSemesterCourseOfferings
   JOIN Department.Departments ON DepartmentAbv = (SUBSTRING([Course (hr, crd)], 1, CHARINDEX('
', [Course (hr, crd)], 1)))
   JOIN Department.Instructor ON FullName = Instructor
   SELECT * FROM [Department].[InstructorDepartment]
```

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.Load\_-DepartmentBridgeTable

```
-- Insert the user into the Process.WorkFlowTable

EXEC [Project3].[TrackWorkFlow] @UserAuthorizationKey = @UserAuthorizationKey, @Workflow-
StepsDescription = 'Loading data into Course Bridge table',

@WorkflowStepsTableRowCount = @@ROWCOUNT;

END

GO
```

## Uses

[Department].[Departments]
[Department].[Instructor]
[Department].[InstructorDepartment]

[Uploadfile].[CurrentSemesterCourseOfferings]

[Project3].[TrackWorkFlow]

Project3

### **Used By**

# [Project3].[Load\_DepartmentTable]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Nak>
-- Create date: <5/13/2024>
-- Description: <Load Data into Department Table>
-- -----
CREATE PROCEDURE [Project3].[Load DepartmentTable]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
-- Insert into the customer table including the user auth key
INSERT INTO Department.Departments
({\tt DepartmentName,\ DepartmentAbv,\ UserAuthorizationKey})
SELECT DISTINCT Department, SUBSTRING([Course (hr, crd)], 1, CHARINDEX(' ', [Course (hr, crd)],
1)), @UserAuthorizationKey
FROM (
   SELECT DISTINCT (SUBSTRING([Course (hr, crd)], 1, CHARINDEX(' ', [Course (hr, crd)], 1))) AS
DepartmentCode,
       CASE SUBSTRING([Course (hr, crd)], 1, CHARINDEX(' ', [Course (hr, crd)], 1))
           WHEN 'ACCT' THEN 'Accounting & Information Systems'
           WHEN 'AFST' THEN 'Africana Studies'
           WHEN 'AMST' THEN 'American Studies'
           WHEN 'ANTH' THEN 'Anthropology'
           WHEN 'ARAB' THEN 'Classical, Middle East & Asian Languages'
           WHEN 'ARTH' THEN 'Art'
           WHEN 'ARTS' THEN 'Art'
           WHEN 'ASTR' THEN 'Astronomy'
```

```
WHEN 'BALA' THEN 'Business and Liberal Arts'
WHEN 'BIOCH' THEN 'Chemistry'
WHEN 'BIOL' THEN 'Biology'
WHEN 'BUS' THEN 'Business'
WHEN 'CESL' THEN 'Academic Support'
WHEN 'CHEM' THEN 'Chemistry'
WHEN 'CHIN' THEN 'Classical, Middle East & Asian Languages'
WHEN 'CLAS' THEN 'Classical, Middle East & Asian Languages'
WHEN 'CMAL' THEN 'Classical, Middle East & Asian Languages'
WHEN 'CMLIT' THEN 'Comparative Literature'
WHEN 'CO-OP' THEN 'Cooperative Education'
WHEN 'CSCI' THEN 'Computer Science'
WHEN 'CUNBA' THEN 'Hispanic Languages and Literatures'
WHEN 'DANCE' THEN 'Dance'
WHEN 'DRAM' THEN 'Drama, Theatre & Dance'
WHEN 'EAST' THEN 'Classical, Middle East & Asian Languages'
WHEN 'ECON' THEN 'Economics'
WHEN 'ECP' THEN 'Educational and Community Programs'
WHEN 'ECPCE' THEN 'Educational and Community Programs'
WHEN 'ECPEL' THEN 'Educational and Community Programs'
WHEN 'ECPSE' THEN 'Educational and Community Programs'
WHEN 'ECPSP' THEN 'Educational and Community Programs'
WHEN 'EECE' THEN 'Elementary and Early Childhood Education'
WHEN 'ENGL' THEN 'English'
WHEN 'ENSCI' THEN 'Earth and Environmental Sciences'
WHEN 'EURO' THEN 'European Studies'
WHEN 'FNES' THEN 'Family, Nutrition and Exercise Sciences'
WHEN 'FREN' THEN 'European Languages & Literature'
WHEN 'GEOL' THEN 'Earth and Environmental Sciences'
WHEN 'GERM' THEN 'European Languages & Literature'
WHEN 'GREEK' THEN 'Classical, Middle East & Asian Languages'
WHEN 'GRKMD' THEN 'European Languages & Literature'
WHEN 'GRKST' THEN 'Byzantine & Mod Greek Studies'
WHEN 'HEBRW' THEN 'Classical, Middle East & Asian Languages'
WHEN 'HIST' THEN 'History'
WHEN 'HMNS' THEN 'Honors in the Mathematical and Natural Sciences'
WHEN 'HNRS' THEN 'Macaulay Honors College'
WHEN 'HSS' THEN 'Honors in the Social Sciences'
WHEN 'HTH' THEN 'Honors in the Humanities'
WHEN 'IRST' THEN 'Provost Office'
WHEN 'ITAL' THEN 'European Languages & Literature'
WHEN 'JAZZ' THEN 'Jazz'
WHEN 'JEWST' THEN 'Jewish Studies'
WHEN 'JOURN' THEN 'Journalism'
WHEN 'JPNS' THEN 'Classical, Middle East & Asian Languages'
WHEN 'KOR' THEN 'Classical, Middle East & Asian Languages'
WHEN 'LABST' THEN 'Labor Studies'
WHEN 'LATIN' THEN 'Classical, Middle East & Asian Languages'
WHEN 'LBLST' THEN 'Liberal Studies'
WHEN 'LBSCI' THEN 'Library Science'
WHEN 'LCD' THEN 'Linguistics and Communication Disorders'
WHEN 'LIBR' THEN 'Library'
```

```
WHEN 'MATH' THEN 'Mathematics'
            WHEN 'MEDST' THEN 'Media Studies'
            WHEN 'MES' THEN 'Classical, Middle East & Asian Languages'
            WHEN 'MUSIC' THEN 'Aaron Copland School of Music'
            WHEN 'PHIL' THEN 'Philosophy'
            WHEN 'PHYS' THEN 'Physics'
            WHEN 'PORT' THEN 'Hispanic Languages and Literatures'
            WHEN 'PSCI' THEN 'Political Science'
            WHEN 'PSYCH' THEN 'Psychology'
            WHEN 'RLGST' THEN 'Classical, Middle East & Asian Languages'
            WHEN 'RM' THEN 'Economics'
            WHEN 'RUSS' THEN 'European Languages & Literature'
            WHEN 'SEEK' THEN 'SEEK Program'
            WHEN 'SEYS' THEN 'Secondary Education and Youth Service'
            WHEN 'SEYSL' THEN 'Secondary Education and Youth Service'
            WHEN 'SOC' THEN 'Sociology'
            WHEN 'SPAN' THEN 'Hispanic Literature & Language'
            WHEN 'SPST' THEN 'Special Studies'
            WHEN 'STABD' THEN 'Study Abroad'
            WHEN 'STPER' THEN 'Student Personnel'
            WHEN 'URBST' THEN 'Urban Studies'
            WHEN 'WGS' THEN 'Women and Gender Studies'
            ELSE 'Unknown' --Cert, Mam, Perm
        END AS Department
   FROM Uploadfile.CurrentSemesterCourseOfferings
JOIN Uploadfile.CurrentSemesterCourseOfferings ON DepartmentCode = SUBSTRING([Course (hr, crd)],
1, CHARINDEX(' ', [Course (hr, crd)], 1))
   SELECT * FROM [Department].[Departments]
    -- Insert the user into the Process.WorkFlowTable
   EXEC [Project3].[TrackWorkFlow] @UserAuthorizationKey = @UserAuthorizationKey, @Workflow-
StepsDescription = 'Loading data into Department table',
   @WorkflowStepsTableRowCount = @@ROWCOUNT;
END
GO
```

#### Uses

[Department].[Departments] [Uploadfile].[CurrentSemesterCourseOfferings] [Project3].[TrackWorkFlow] Project3

#### **Used By**

# [Project3].[Load\_InstructorTable]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Nak>
-- Create date: <5/13/2024>
-- Description: <Load Data into Instructor Table>
-- -----
CREATE PROCEDURE [Project3].[Load InstructorTable]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   -- Insert into the customer table including the user auth key
       INSERT INTO Department.Instructor
       (LastName, FirstName, FullName, UserAuthorizationKey)
       SELECT DISTINCT
       SUBSTRING([Instructor], 1, CHARINDEX(',', [Instructor]) - 1) AS LastName,
       SUBSTRING([Instructor], CHARINDEX(',', [Instructor]) + 2, LEN([Instructor]) -
CHARINDEX(',', [Instructor]) - 1) AS FirstName,
       Instructor,
       @UserAuthorizationKey
       FROM
   Uploadfile.CurrentSemesterCourseOfferings
   SELECT * FROM [Department].[Instructor]
   -- Insert the user into the Process.WorkFlowTable
   EXEC [Project3].[TrackWorkFlow] @UserAuthorizationKey = @UserAuthorizationKey, @Workflow-
StepsDescription = 'Loading data into Instructor table',
```

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.Load\_-InstructorTable

@WorkflowStepsTableRowCount = @@ROWCOUNT;
END
GO

# Uses

[Department].[Instructor]
[Uploadfile].[CurrentSemesterCourseOfferings]
[Project3].[TrackWorkFlow]
Project3

# **Used By**

# [Project3].[Load\_ModeOfInstruction]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Rahib>
-- Create date: <5/13/2024>
-- Description: <Load The MOI table>
-- -----
CREATE PROCEDURE [Project3].[Load ModeOfInstruction]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   -- Insert into the customer table including the user auth key
   INSERT INTO Course.Mode_Of_Instruction
       ModeName,
       UserAuthorizationKey
   SELECT DISTINCT[Mode Of Instruction], @UserAuthorizationKey FROM Uploadfile.CurrentSemester-
CourseOfferings
   SELECT * FROM [Course].[Mode_Of_Instruction]
   -- Insert the user into the Process.WorkFlowTable
   EXEC [Project3].[TrackWorkFlow] @UserAuthorizationKey = @UserAuthorizationKey, @Workflow-
StepsDescription = 'Loading data into MOI table',
   @WorkflowStepsTableRowCount = @@ROWCOUNT;
END
```

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.Load\_-ModeOfInstruction

GO

## Uses

[Course].[Mode\_Of\_Instruction] [Uploadfile].[CurrentSemesterCourseOfferings] [Project3].[TrackWorkFlow] Project3

**Used By** 

# [Project3].[Load\_RoomLocationTable]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Ashish>
-- Create date: <5/13/2024>
-- Description: <Load Data into Room Location Table>
-- -----
CREATE PROCEDURE [Project3].[Load RoomLocationTable]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   INSERT INTO [Location].[RoomLocation]
   (RoomLocationName, BuildingLocationID, UserAuthorizationKey)
   SELECT DISTINCT([Location]), buildinglocationID, @UserAuthorizationKey FROM
uploadfile.CurrentSemesterCourseOfferings
   JOIN [Location].[BuildingLocation] ON buildinglocationabv = SUBSTRING([Location], 1,
CHARINDEX(' ', [Location], 1))
   SELECT * FROM [Location].[RoomLocation]
   -- Insert the user into the Process.WorkFlowTable
   EXEC [Project3].[TrackWorkFlow] @UserAuthorizationKey = @UserAuthorizationKey, @Workflow-
StepsDescription = 'Loading data into RoomLocation table',
   @WorkflowStepsTableRowCount = @@ROWCOUNT;
END
GO
```

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.Load\_RoomLocationTable

## Uses

[Location].[BuildingLocation]
[Location].[RoomLocation]
[Uploadfile].[CurrentSemesterCourseOfferings]
[Project3].[TrackWorkFlow]
Project3

# Used By

# [Project3].[LoadData]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Rahib>
-- Create date: <5/13/2024>
-- Description: <Load Data>
-- -----
CREATE PROCEDURE [Project3].[LoadData] @UserAuthorizationKey INT
BEGIN
   SET NOCOUNT ON;
      DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
       Drop All of the foreign keys prior to truncating tables
   EXEC [Project3].[DropForeignKeysFromQueensClassSchedule] @UserAuthorizationKey = 1;
   -- Check row count before truncation
   EXEC [Project3].[ShowTableStatusRowCount]
       \hbox{\tt @UserAuthorizationKey = 1 -- Change -1 to the appropriate UserAuthorizationKey } 
       Always truncate the data
   EXEC [Project3].[TruncateData] @UserAuthorizationKey = 1;
       Load the schema
   EXEC [Project3].[Load_DepartmentTable] @UserAuthorizationKey = 2; -- Change -1 to the
```

```
appropriate UserAuthorizationKey
   EXEC [Project3].[Load InstructorTable] @UserAuthorizationKey = 4; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load DepartmentBridgeTable] @UserAuthorizationKey = 4; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load ModeOfInstruction] @UserAuthorizationKey = 1; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load CourseTable] @UserAuthorizationKey = 6; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load ClassTable] @UserAuthorizationKey = 5; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load CourseBridgeTable] @UserAuthorizationKey = 5; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load BuildingLocation] @UserAuthorizationKey = 7; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load RoomLocationTable] @UserAuthorizationKey = 3; -- Change -1 to the
appropriate UserAuthorizationKey
         Recreate all of the foreign keys prior after loading
   ___
         Check row count before truncation
   EXEC [Project3].[ShowTableStatusRowCount]
        @UserAuthorizationKey = 1 -- Change -1 to the appropriate UserAuthorizationKey
   EXEC [Project3].[AddForeignKeysToQueensClassSchedule] @UserAuthorizationKey = 1; -- Change -
1 to the appropriate UserAuthorizationKey
   EXEC [Project3].[TrackWorkFlow] @WorkFlowStepsDescription = 'Loading all the Data', @User-
AuthorizationKey = @UserAuthorizationKey,
   @WorkflowStepsTableRowCount = @@ROWCOUNT;
END:
GO
```

#### Uses

```
[Project3].[AddForeignKeysToQueensClassSchedule]
[Project3].[DropForeignKeysFromQueensClassSchedule]
[Project3].[Load_BuildingLocation]
[Project3].[Load_ClassTable]
[Project3].[Load_CourseBridgeTable]
[Project3].[Load_CourseTable]
[Project3].[Load_DepartmentBridgeTable]
[Project3].[Load_DepartmentTable]
[Project3].[Load_InstructorTable]
[Project3].[Load_ModeOfInstruction]
[Project3].[Load_RoomLocationTable]
[Project3].[ShowTableStatusRowCount]
[Project3].[TrackWorkFlow]
[Project3].[TruncateData]
Project3
```

# [Project3].[ShowTableStatusRowCount]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
CREATE PROCEDURE [Project3].[ShowTableStatusRowCount]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   SELECT 'Course' AS TableName, COUNT(*) AS TotalRowCount FROM [Course]. [Course]
   UNION ALL
   SELECT 'Class' AS TableName, COUNT(*) AS TotalRowCount FROM [Course].[Class]
   SELECT 'Mode_Of_Instruction' AS TableName, COUNT(*) AS TotalRowCount FROM [Course].[Mode_Of_-
Instruction]
   UNION ALL
   SELECT 'Departments' AS TableName, COUNT(*) AS TotalRowCount FROM [Department].[Departments]
   UNION ALL
   SELECT 'Instructor' AS TableName, COUNT(*) AS TotalRowCount FROM [Department].[Instructor]
   SELECT 'InstructorDepartment' AS TableName, COUNT(*) AS TotalRowCount FROM
[Department].[InstructorDepartment]
   UNTON ALL
   SELECT 'BuildingLocation' AS TableName, COUNT(*) AS TotalRowCount FROM [Location].[Building-
Location]
   UNION ALL
   SELECT 'RoomLocation' AS TableName, COUNT(*) AS TotalRowCount FROM [Location]. [RoomLocation]
   SELECT 'CoursesClassMode' AS TableName, COUNT(*) AS TotalRowCount FROM [Course].[Courses-
ClassMode];
   EXEC [Project3].[TrackWorkFlow] @UserAuthorizationKey = @UserAuthorizationKey, @WorkFlow-
StepsDescription = 'ShowTableRowCount',
    @WorkflowStepsTableRowCount = @@ROWCOUNT;
```

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.Show-TableStatusRowCount

```
SET NOCOUNT OFF;
END;
GO
```

## Uses

[Course].[Class]

[Course].[Course]

[Course].[CoursesCLassMode]

[Course].[Mode\_Of\_Instruction]

[Department].[Departments]

[Department].[Instructor]

[Department].[InstructorDepartment]

[Location].[BuildingLocation]

[Location].[RoomLocation]

[Project3].[TrackWorkFlow]

Project3

## **Used By**

# [Project3].[TrackWorkFlow]

## **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@UserAuthorizationKey	int	4
@WorkFlowStepsDescription	nvarchar(100)	200
@WorkflowStepsTableRowCount	int	4

# **SQL Script**

### Uses

[process].[WorkflowSteps]

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.Track-WorkFlow

## Project3

### **Used By**

[Project3].[AddForeignKeysToQueensClassSchedule]

[Project 3]. [DropForeignKeysFromQueensClassSchedule]

[Project3].[Load\_BuildingLocation]

[Project3].[Load\_ClassTable]

[Project3].[Load\_CourseBridgeTable]

[Project3].[Load\_CourseTable]

[Project3].[Load\_DepartmentBridgeTable]

[Project3].[Load\_DepartmentTable]

[Project3].[Load\_InstructorTable]

[Project3].[Load\_ModeOfInstruction]

[Project3].[Load\_RoomLocationTable]

[Project3].[LoadData]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

# [Project3].[TruncateData]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- -----
-- Author: <Rahib>
-- Create date: <5/13/2024>
-- Description: <Truncate Data>
-- -----
CREATE PROCEDURE [Project3].[TruncateData]
   @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
   TRUNCATE table Course.Class;
   TRUNCATE table Course.Course;
   TRUNCATE table Course.Mode_Of_Instruction;
   Truncate Table Course.CoursesClassMode;
   TRUNCATE table Department.Departments;
   TRUNCATE Table Department.Instructor;
   TRUNCATE Table Department.InstructorDepartment;
   TRUNCATE Table [LOCATION].BuildingLocation;
   TRUNCATE Table [Location].[RoomLocation];
   EXEC [Project3].[TrackWorkFlow] @UserAuthorizationKey = @UserAuthorizationKey, @Workflow-
StepsDescription = 'Loading data into RoomLocation table',
   @WorkflowStepsTableRowCount = @@ROWCOUNT;
END
GO
```

Project > localhost,13001 > User databases > QueensClass-Schedule > Programmability > Stored Procedures > Project3.TruncateData

## Uses

[Course].[Class]

[Course].[Course]

[Course].[CoursesCLassMode]

[Course].[Mode Of Instruction]

[Department].[Departments]

[Department].[Instructor]

[Department].[InstructorDepartment]

[Location].[BuildingLocation]

[Location].[RoomLocation]

[Project3].[TrackWorkFlow]

Project3

## **Used By**

## **■ Table-valued Functions**

## Objects

#### Name

dbo.DatabaseObjects

dbo.JSONHierarchy

## 🖪 [dbo].[DatabaseObjects]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@ListOfObjectIDs	varchar(max)	max

#### **SQL Script**

```
create function [dbo].[DatabaseObjects]
   Summary: >
    lists out the full names, schemas and (where appropriate)
     the owner of the object.
   Author: PhilFactor
   Date: 10/9/2017
   Examples:
      - Select * from dbo.DatabaseObjects('2123154609,960722475,1024722703')
    A table with the id, name of object and so on.
   @ListOfObjectIDs varchar(max)
returns table
--WITH ENCRYPTION|SCHEMABINDING, ..
as
return
   select object id
        , schema name(schema id) + '.' + coalesce(object name(parent object id) + '.', '') +
name as name
   from sys.objects as ob
       inner join openjson(N'[' + @ListOfObjectIDs + N']')
          on convert(int, Value) = ob.object id
);
```

## [dbo].[JSONHierarchy]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@JSONData	varchar(max)	max
@Parent_object_ID	int	4
@MaxObject_id	int	4
@type	int	4

#### **SQL Script**

```
create function [dbo].[JSONHierarchy]
   @JSONData varchar(max)
  , @Parent object ID int = null
 , @MaxObject id int = 0
  , @type int = null
returns @ReturnTable table
   -- https://www.red-gate.com/simple-talk/blogs/consuming-hierarchical-json-documents-sql-
server-using-openjson/?utm source=simpletalk&utm medium=pubemail&utm content=20171010-
slota1&utm term=simpletalkmain
   Element_ID int identity(1, 1) primary key /* internal surrogate primary key gives the order
of parsing and the list order */
 , SequenceNo int null
                                             /* the sequence number in a list */
                                             /* if the element has a parent then it is in this
  , Parent ID int
column. The document is the ultimate parent, so you can get the structure from recursing from the
document */
  , Object ID int
                                             /* each list or object has an object id. This ties
all elements to a parent. Lists are treated as objects here */
 , Name nvarchar(2000)
                                            /* the name of the object */
  , StringValue nvarchar(max) not null
                                            /*the string representation of the value of the
element. */
  , ValueType varchar(10) not null
                                            /* the declared type of the value represented as a
string in StringValue*/
```

```
begin
   --the types of JSON
   declare @null int = 0
         , @string int = 1
         , @int int = 2
         , @boolean int = 3
         , @object int = 5;
   declare @OpenJSONData table
      sequence int identity(1, 1)
     , [key] varchar(200)
     , Value varchar(max)
     , type int
   );
   declare @key
                   varchar(200)
       , @Value varchar(max)
         , @Thetype int
         , @ii
                    int
                  int
         , @iiMax
         , @NewObject int
         , @firstchar char(1);
   insert into @OpenJSONData
       [key]
     , Value
     , type
   select [Key]
       , Value
        , Type
   from openjson(@JSONData);
   select @ii = 1
        , @iiMax = scope identity();
   select @firstchar
       = --the first character to see if it is an object or an array
       substring(
                  @JSONData
                  , patindex(
                              '%[^' + char(0) + '- ' + char(160) + ']%'
                             , ' ' + @JSONData + '!' collate SQL_Latin1_General_CP850_BIN
                           ) - 1
                 , 1
               );
   if @type is null
      and @firstchar in ( '[', '{')
       insert into @ReturnTable
```

```
SequenceNo
      , Parent ID
      , Object ID
      , Name
      , StringValue
      , ValueType
    select 1
         , null
         , 1
         , '-1
         , 11
         , case @firstchar
               when '[' then
                  'array'
               else
                  'object'
           end;
    select @type
                             = case @firstchar
                                   when '[' then
                                       @array
                                   else
                                       @object
                               end
         , @Parent_object_ID = 1
         , @MaxObject_id = coalesce(@MaxObject_id, 1) + 1;
end;
while (@ii <= @iiMax)</pre>
begin
    --OpenJSON renames list items with 0-nn which confuses the consumers of the table
   select @key = case
                          when [key] like '[0-9]%' then
                          else
                             [key]
                      end
         , @Value = Value
         , @Thetype = type
    from @OpenJSONData
    where sequence = @ii;
   if @Thetype in ( @array, @object ) --if we have been returned an array or object
   begin
        select @MaxObject id = coalesce(@MaxObject id, 1) + 1;
        --just in case we have an object or array returned
        insert into @ReturnTable --record the object itself
           SequenceNo
          , Parent ID
          , Object ID
          , Name
          , StringValue
```

```
, ValueType
   select @ii
        , @Parent_object_ID
        , @MaxObject_id
        , @key
        , 11
         , case @Thetype
              when @array then
                 'array'
              else
                  'object'
           end;
   insert into @ReturnTable --and return all its children
       SequenceNo
     , Parent_ID
     , Object_ID
     , [Name]
     , StringValue
     , ValueType
   select SequenceNo
        , Parent_ID
        , Object_ID
        , [Name]
        , StringValue
        , ValueType
   from dbo.JSONHierarchy(@Value, @MaxObject_id, @MaxObject_id, @type);
   select @MaxObject id = max(Object ID) + 1
   from @ReturnTable;
end:
else
   insert into @ReturnTable
       SequenceNo
     , Parent ID
     , Object_ID
     , Name
     , StringValue
     , ValueType
   select @ii
        , @Parent_object_ID
        , null
        , @key
        , @Value
         , case @Thetype
              when @string then
                  'string'
              when @null then
```

# " User-Defined Data Types

## Objects

Name
udt.ClassDuration
udt.ClassTime
udt.DateAdded
udt.FirstName
udt.GroupName
udt.IndividualProject
udt.LastName
udt.Rowcount
udt.SurrogateKeyFloat
udt.SurrogateKeyInt
udt.SurrogateKeyString
udt.workflowstring

# [udt].[ClassDuration]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	30

## **SQL Script**

CREATE TYPE [udt].[ClassDuration] FROM nvarchar (30) NOT NULL
GO

Uses

udt

**Used By** 

[Course].[Class]

# [udt].[ClassTime]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nchar
Length	5

## **SQL Script**

CREATE TYPE [udt].[ClassTime] FROM nchar (5) NOT NULL
GO

#### Uses

udt

### **Used By**

[DbSecurity].[UserAuthorization] [process].[WorkflowSteps]

## [udt].[DateAdded]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	datetime2
Length	8

#### **SQL Script**

CREATE TYPE [udt].[DateAdded] FROM datetime2 NOT NULL
GO

#### Uses

udt

#### **Used By**

[Course].[Class]

[Course].[Course]

[Course].[CoursesCLassMode]

[Course].[Mode\_Of\_Instruction]

[DbSecurity].[UserAuthorization]

[Department].[Departments]

[Department].[Instructor]

[Department].[InstructorDepartment]

[Location].[BuildingLocation]

[Location].[RoomLocation]

[process].[WorkflowSteps]

# [udt].[FirstName]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	20

## **SQL Script**

CREATE TYPE [udt].[FirstName] FROM nvarchar (20) NOT NULL
GO

Uses

udt

**Used By** 

# [udt].[GroupName]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	20

## **SQL Script**

CREATE TYPE [udt].[GroupName] FROM nvarchar (20) NOT NULL
GO

Uses

udt

**Used By** 

# [udt].[IndividualProject]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	60

## **SQL Script**

CREATE TYPE [udt].[IndividualProject] FROM nvarchar (60) NOT NULL
GO

Uses

udt

**Used By** 

# [udt].[LastName]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	35

## **SQL Script**

CREATE TYPE [udt].[LastName] FROM nvarchar (35) NOT NULL
GO

Uses

udt

**Used By** 

# [udt].[Rowcount]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	int
Length	4

## **SQL Script**

CREATE TYPE [udt].[Rowcount] FROM int NOT NULL
GO

Uses

udt

**Used By** 

[process].[WorkflowSteps]

# [udt].[SurrogateKeyFloat]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	float
Length	8

## **SQL Script**

CREATE TYPE [udt].[SurrogateKeyFloat] FROM float NOT NULL
GO

Uses

udt

**Used By** 

[Course].[Class]

# [udt].[SurrogateKeyInt]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	int
Length	4

#### **SQL Script**

CREATE TYPE [udt].[SurrogateKeyInt] FROM int NULL
GO

#### Uses

udt

## Used By

[Course].[Class]

[Course].[Course]

[Course].[CoursesCLassMode]

[Course].[Mode\_Of\_Instruction]

[DbSecurity].[UserAuthorization]

[Department].[Departments]

[Department].[Instructor]

[Department].[InstructorDepartment]

[Location].[BuildingLocation]

[Location].[RoomLocation]

[process].[WorkflowSteps]

# [udt].[SurrogateKeyString]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	30

### **SQL Script**

CREATE TYPE [udt].[SurrogateKeyString] FROM nvarchar (30) NOT NULL
GO

#### Uses

udt

### **Used By**

[Course].[Class]

[Course].[Course]

[Department].[Departments]

[Location].[BuildingLocation]

[Location].[RoomLocation]

# [udt].[workflowstring]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	100

### **SQL Script**

CREATE TYPE [udt].[workflowstring] FROM nvarchar (100) NOT NULL
GO

#### Uses

udt

### **Used By**

[Course].[Course]
[Course].[Mode\_Of\_Instruction]
[Department].[Departments]
[Department].[Instructor]
[process].[WorkflowSteps]

# **1** Users

## **Objects**

Name	
BiStudent	
dbo	
EC3\thehitman	
guest	
student	



Property	Value
Туре	SqlUser
Default Schema	dbo

## **Database Level Permissions**

Туре	Action
CONNECT	Grant

## **SQL Script**

CREATE USER [BiStudent] WITHOUT LOGIN GO



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\thehitman
Default Schema	dbo

### **Database Level Permissions**

Туре	Action
CONNECT	Grant

## **SQL Script**

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



Property	Value
Туре	SqlUser
Default Schema	guest

## SQL Script

GO	



Property	Value
Туре	SqlUser
Default Schema	dbo

## **Database Level Permissions**

Туре	Action
CONNECT	Grant

## **SQL Script**

CREATE USER [student] 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**

- BiStudent
- student

## **SQL Script**

```
ALTER ROLE [db_datareader] ADD MEMBER [BiStudent]

GO

ALTER ROLE [db_datareader] ADD MEMBER [student]

GO
```

#### Uses

BiStudent student

# ♣ db\_datawriter

## **Properties**

Property	Value
Owner	dbo

## db\_ddladmin

## **Properties**

Property	Value
Owner	dbo

## db\_denydatareader

## **Properties**

Property	Value
Owner	dbo

## db\_denydatawriter

## **Properties**

Property	Value
Owner	dbo

# ♣ db\_owner

Property	Value
Owner	dbo

#### **Members**

• EC3\thehitman

### SQL Script

ALTER ROLE [db\_owner] ADD MEMBER [EC3\thehitman] GO

#### Uses

EC3\thehitman

## db\_securityadmin

## **Properties**

Property	Value
Owner	dbo

## 🚣 public

## **Properties**

Property	Value
Owner	dbo

## **△** Schemas

## **Objects**

Name
Course
DbSecurity
Department
GroupNameProject3
Location
process
Project3
udt
Uploadfile
Utils
YourLastName

## **△** Course

## **Properties**

Property	Value
Owner	dbo

### **SQL Script**

CREATE SCHEMA [Course]
AUTHORIZATION [dbo]
GO

## **Used By**

[Course].[Course]
[Course].[CoursesCLassMode]
[Course].[Mode\_Of\_Instruction]

# ♣ DbSecurity

## **Properties**

Property	Value
Owner	dbo

### **SQL Script**

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

## **Used By**

## ♣ Department

## **Properties**

Property	Value
Owner	dbo

### **SQL Script**

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

## **Used By**

[Department].[Departments]
[Department].[Instructor]
[Department].[InstructorDepartment]

## 

## **Properties**

Property	Value
Owner	dbo

### **SQL Script**

CREATE SCHEMA [GroupNameProject3]
AUTHORIZATION [dbo]
GO

## **△** Location

## **Properties**

Property	Value
Owner	dbo

### **SQL Script**

CREATE SCHEMA [Location]
AUTHORIZATION [dbo]
GO

## **Used By**

[Location].[BuildingLocation] [Location].[RoomLocation]

## ♣ process

## **Properties**

Property	Value
Owner	dbo

## SQL Script

CREATE SCHEMA [process]
AUTHORIZATION [dbo]
GO

## **Used By**

[process].[WorkflowSteps]

## ♣ Project3

### **Properties**

Property	Value
Owner	dbo

### **SQL Script**

```
CREATE SCHEMA [Project3]
AUTHORIZATION [dbo]
GO
```

#### **Used By**

[Project3].[AddForeignKeysToQueensClassSchedule]

[Project 3]. [Drop Foreign Keys From Queens Class Schedule]

[Project3].[Load\_BuildingLocation]

[Project3].[Load\_ClassTable]

[Project3].[Load\_CourseBridgeTable]

[Project3].[Load\_CourseTable]

[Project3].[Load\_DepartmentBridgeTable]

[Project3].[Load\_DepartmentTable]

[Project3].[Load\_InstructorTable]

[Project3].[Load\_ModeOfInstruction]

[Project3].[Load\_RoomLocationTable]

[Project3].[LoadData]

[Project3].[ShowTableStatusRowCount]

[Project3].[TrackWorkFlow]

[Project3].[TruncateData]



Property	Value
Owner	dbo

### **SQL Script**

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

### **Used By**

[udt].[ClassDuration]

[udt].[ClassTime]

[udt].[DateAdded]

[udt].[FirstName]

[udt].[GroupName]

[udt].[IndividualProject]

[udt].[LastName]

[udt].[Rowcount]

[udt].[SurrogateKeyFloat]

[udt].[SurrogateKeyInt]

[udt].[SurrogateKeyString]

[udt].[workflowstring]

## ♣ Uploadfile

## **Properties**

Property	Value
Owner	dbo

### **SQL Script**

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

## **Used By**

[Upload file]. [Current Semester Course Offerings]



Property	Value
Owner	dbo

### **SQL Script**

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

## **Used By**

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

## 

## **Properties**

Property	Value
Owner	dbo

## SQL Script

CREATE SCHEMA [YourLastName]
AUTHORIZATION [dbo]
GO