# localhost,12001

# **QueensClassScheduleCurrentSemester**

Server localhost,12001

Author erikk

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# **Table of Contents**

able of Contents	2
localhost,12001	5
User databases	
QueensClassScheduleCurrentSemester Database	8
Tables	11
[Course].[Class]	12
[Course]	
[Course].[ModeofInstruction]	
[DbSecurity].[UserAuthorization]	19
[Department].[Department]	21
[Department].[Instructor]	23
[groupnUploadfile].[CoursesSpring2017]	25
[Location].[BuildingLocation]	27
[Location].[RoomLocation]	29
[Process].[WorkflowSteps]	31
된 Views	33
區 [G10_4].[uvw_BuildingLocation1]	34
[G10_4].[uvw_BuildingLocation2]	35
园 [G10_4].[uvw_BuildingLocation3]	36
[G10_4].[uvw_BuildingLocation4]	37
[G10_4].[uvw_BuildingRoomNumber]	38
[G10_4].[uvw_Class]	39
团 [G10_4].[uvw_Course]	41
团 [G10_4].[uvw_Course1]	42
[G10_4].[uvw_Department]	43
[G10_4].[uvw_Department1]	44
[G10_4].[uvw_Instructor]	45
[G10_4].[uvw_Instructor_Temp1]	46
[G10_4].[uvw_Instructor_Temp2]	48
[G10_4].[uvw_Instructor_Temp3]	49
[G10_4].[uvw_ModeOfInstruction]	50
[G10_4].[uvw_RoomLocation]	51
Stored Procedures	52
[Process].[usp_ShowWorkflowSteps]	53
[Process].[usp_TrackWorkFlow]	54
[Project3].[AddForeignKeys]	56
[Project3].[DropForeignKeys]	58

[Project3].[Load_BuildingLocation]	60
[Project3].[Load_Class]	
[Project3].[Load_Course]	66
[Project3].[Load_Department]	68
[Project3].[Load_Instructor]	70
[Project3].[Load_ModeOfInstruction]	73
[Project3].[Load_RoomLocation]	75
[Project3].[LoadData]	77
[Project3].[ShowTableStatusRowCount]	79
[Project3].[TruncateData]	
User-Defined Data Types	84
[Udt].[BuildingLocation]	85
[Udt].[ClassTime]	
[Udt].[Count]	
[Udt].[CourseCode]	
[Udt].[CourseDesc]	
[Udt].[CourseName]	90
[Udt].[DateOf]	91
[Udt].[DayOfWeek]	
[Udt].[DepartmentName]	
[Udt].[Description]	
[Udt].[IndividualProject]	
[Udt].[IntValue]	
[Udt].[Location]	
[Udt].[ModeOfInstruction]	
[Udt].[Name]	99
[Udt].[RoomLocation]	100
[Udt].[Section]	101
[Udt].[SurrogateKeyInt]	102
Lusers	103
<b>▲</b> dbo	104
<b></b> guest	
Database Roles	106
db_accessadmin	
db_backupoperator	
db_datareader	
db_datawriter	
db_ddladmin	107

db_denydatareader	108
db_denydatawriter	108
db_owner	108
db_securityadmin	108
public	109
⚠ Schemas	110
<b>⚠</b> Course	111
<b>⚠</b> DbSecurity	112
⚠ Department	113
<b>⚠</b> G10_4	114
<b>⚠</b> groupnDim	115
<b>⚠</b> groupnFACT	116
<b>⚠</b> groupnUploadfile	117
⚠ Location	118
⚠ Process	119
A Project3	120
<b>∧</b> <sub>QC</sub>	121
<b>⚠</b> Udt	122
<b>⚠</b> Upload	123
<b>⚠</b> Uploadfile	124

# **■** localhost,12001

# Databases (1)

• QueensClassScheduleCurrentSemester

# **Server Properties**

Property	Value
Product	Microsoft SQL Server
Version	15.0.4053.23
Language	English
Platform	NT x64
Edition	Developer Edition (64-bit)
Engine Edition	3 (Enterprise)
Processors	8
OS Version	6.2 (9200)
Physical Memory	10193
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

$\sim$			
	User	data	bases

Databases (1)

QueensClassScheduleCurrentSemester

# **☐ QueensClassScheduleCurrentSemester Database**

# **Database Properties**

Property	Value
SQL Server Version	Max
Compatibility Level	Max
Last backup time	12/11/2020
Last log backup time	-
Creation date	Dec 11 2020
Users	4
Database Encryption Enabled	False
Database Encryption Algorithm	None
Database size	80.00 MB
Unallocated space	2.60 MB

# **Database Options**

Property	Value
Compatibility Level	150
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	bae2242e-c8cf-4359-a5cd-47639ba64531
Service broker enabled	False
Log reuse wait	NOTHING
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
QueensClassScheduleCurrent- Semester	Data	8.00 MB	unlimited	64.00 MB	/var/opt/mssql/data/Q ueensClassSchedule- CurrentSemester.mdf
QueensClassScheduleCurrent- Semester_log	Log	72.00 MB	2048.00 GB	64.00 MB	/var/opt/mssql/log/Qu eensClassSchedule- Current-

	Semester_log.ldf
--	------------------

# **■ Tables**

# Objects

Name
Course.Class
Course.Course
Course.ModeofInstruction
DbSecurity.UserAuthorization
Department.Department
Department.Instructor
groupnUploadfile.CoursesSpring2017
Location.BuildingLocation
Location.RoomLocation
Process.WorkflowSteps

# **■** [Course].[Class]

# **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	4522
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:45:40 AM Friday, December 11, 2020

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullabilit y	Identity	Default
PK	ClassKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
F	CourseKey	[Udt].[SurrogateKeyInt]	4	NULL allowed		
	Section	[Udt].[Section]	50	NULL allowed		
	CourseCode	[Udt].[CourseCode]	50	NULL allowed		
	CourseName	[Udt].[CourseName]	50	NULL allowed		
	CourseDescription	[Udt].[CourseDesc]	50	NULL allowed		
	InstructorFullName	[Udt].[Name]	100	NULL allowed		
	Day	[Udt].[DayOfWeek]	100	NULL allowed		
	Hours	[Udt].[IntValue]	100	NULL allowed		
	NumberOfCredits	[Udt].[IntValue]	100	NULL allowed		
	NumberEnrolled	[Udt].[IntValue]	100	NULL allowed		
	Limit	[Udt].[IntValue]	100	NULL allowed		
	OverTally	[Udt].[Count]	4	NULL allowed		
FK	ModeOfInstructionKey	[Udt].[SurrogateKeyInt]	4	NULL allowed		
	ModeOfInstruction	[Udt].[ModeOfInstruction]	100	NOT NULL		('TBA')
FK	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT		

			NULL	
DateAdded	[Udt].[DateOf]	8	NULL allowed	(sysdatetim e())
DateOfLastUpdate	[Udt].[DateOf]	8	NOT NULL	(sysdatetim e())

#### **Indexes**

Key	Name	Key Columns	Unique
PK G	PKClass94BC1938F6CDBFD7	ClassKey	True

#### Foreign Keys

Name	Columns
FK_Class_Course	CourseKey->[Course].[CourseKey]
FK_Class_ModeOfInstruction	ModeOfInstructionKey->[Course].[ModeofInstruction].[ModeOfInstructionKey]
FK_Class_UserAuthorization	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorizationKey]

```
CREATE TABLE [Course].[Class]
[ClassKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[CourseKey] [Udt].[SurrogateKeyInt] NULL,
[Section] [Udt].[Section] NULL,
[CourseCode] [Udt].[CourseCode] NULL,
[CourseName] [Udt].[CourseName] NULL,
[CourseDescription] [Udt].[CourseDesc] NULL,
[InstructorFullName] [Udt].[Name] NULL,
[Day] [Udt].[DayOfWeek] NULL,
[Hours] [Udt].[IntValue] NULL,
[NumberOfCredits] [Udt].[IntValue] NULL,
[NumberEnrolled] [Udt].[IntValue] NULL,
[Limit] [Udt].[IntValue] NULL,
[OverTally] [Udt].[Count] NULL,
[ModeOfInstructionKey] [Udt].[SurrogateKeyInt] NULL,
[ModeOfInstruction] [Udt].[ModeOfInstruction] NOT NULL CONSTRAINT [DF Class ModeOf-
Ins__440B1D61] DEFAULT ('TBA'),
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateOf] NULL CONSTRAINT [DF__Class__DateAdded__44FF419A] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [Udt].[DateOf] NOT NULL CONSTRAINT [DF Class DateOfLas 45F365D3]
DEFAULT (sysdatetime())
ON [PRIMARY]
ALTER TABLE [Course].[Class] ADD CONSTRAINT [PK__Class__94BC1938F6CDBFD7] PRIMARY KEY
CLUSTERED ([ClassKey]) ON [PRIMARY]
ALTER TABLE [Course].[Class] ADD CONSTRAINT [FK Class Course] FOREIGN KEY ([CourseKey])
```

```
REFERENCES [Course].[Course] ([CourseKey])

GO

ALTER TABLE [Course].[Class] ADD CONSTRAINT [FK_Class_ModeOfInstruction] FOREIGN KEY
([ModeOfInstructionKey]) REFERENCES [Course].[ModeofInstruction] ([ModeOfInstruction-Key])

GO

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

GO
```

#### Uses

[Course].[Course]

[Course].[ModeofInstruction]

[DbSecurity].[UserAuthorization]

[Udt].[Count]

[Udt].[CourseCode]

[Udt].[CourseDesc]

[Udt].[CourseName]

[Udt].[DateOf]

[Udt].[DayOfWeek]

[Udt].[IntValue]

[Udt].[ModeOfInstruction]

[Udt].[Name]

[Udt].[Section]

[Udt].[SurrogateKeyInt]

Course

#### **Used By**

[Project3].[Load\_Class]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

# **I** [Course].[Course]

# **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	1628
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:45:40 AM Friday, December 11, 2020

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PK C	CourseKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	CourseName	[Udt].[CourseName]	50	NULL allowed		
	CourseDescription	[Udt].[CourseDesc]	50	NULL allowed		
FK	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL		
	DateAdded	[Udt].[DateOf]	8	NULL allowed		(sysdatetime( ))
	DateOfLastUpdate	[Udt].[DateOf]	8	NULL allowed		(sysdatetime( ))

#### Indexes

Key	Name	Key Columns	Unique
PKP C	PKCourse08D3E416D104D595	CourseKey	True

# Foreign Keys

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

```
CREATE TABLE [Course].[Course]
(
[CourseKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
```

```
[CourseName] [Udt].[CourseName] NULL,
[CourseDescription] [Udt].[CourseDesc] NULL,
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateOf] NULL CONSTRAINT [DF__Course__DateAdde__46E78A0C] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [Udt].[DateOf] NULL CONSTRAINT [DF__Course__DateOfLa__47DBAE45]
DEFAULT (sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [Course].[Course] ADD CONSTRAINT [PK__Course__08D3E416D104D595] PRIMARY KEY
CLUSTERED ([CourseKey]) ON [PRIMARY]
GO
ALTER TABLE [Course].[Course] ADD CONSTRAINT [FK_Course_UserAuthorization] FOREIGN KEY
([UserAuthorizationKey]) REFERENCES [DbSecurity].[UserAuthorization] ([User-AuthorizationKey])
GO
```

#### Uses

[DbSecurity].[UserAuthorization]

[Udt].[CourseDesc]

[Udt].[CourseName]

[Udt].[DateOf]

[Udt].[SurrogateKeyInt]

Course

#### **Used By**

[Course].[Class]
[G10\_4].[uvw\_Class]
[Project3].[Load\_Course]
[Project3].[ShowTableStatusRowCount]
[Project3].[TruncateData]

# **□** [Course].[ModeofInstruction]

# **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	5
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:45:40 AM Friday, December 11, 2020

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullabilit y	Identity	Default
PK	ModeOfInstructionKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	ModeOfInstruction	[Udt].[ModeOfInstruction]	100	NOT NULL		
FK	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL		
	DateAdded	[Udt].[DateOf]	8	NULL allowed		(sysdatetim e())
	DateOfLastUpdate	[Udt].[DateOf]	8	NULL allowed		(sysdatetim e())

#### Indexes

Key	Name	Key Columns	Unique
PKP G	PKModeofln70CDEF2D0089401D	ModeOfInstructionKey	True

# Foreign Keys

Name	Columns
FK_ModeOfInstruction_UserAuthorization	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[User-AuthorizationKey]

```
CREATE TABLE [Course].[ModeofInstruction]
(
[ModeOfInstructionKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
```

# Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Tables > Course.Modeof-Instruction

```
[ModeOfInstruction] [Udt].[ModeOfInstruction] NOT NULL,
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateOf] NULL CONSTRAINT [DF_ModeofIns_DateA_48CFD27E] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [Udt].[DateOf] NULL CONSTRAINT [DF_ModeofIns_DateO_49C3F6B7]
DEFAULT (sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [Course].[ModeofInstruction] ADD CONSTRAINT [PK_Modeof-In_70CDEF2D0089401D] PRIMARY KEY CLUSTERED ([ModeOfInstructionKey]) ON [PRIMARY]
GO
ALTER TABLE [Course].[ModeofInstruction] ADD CONSTRAINT [FK_ModeOfInstruction_User-Authorization] FOREIGN KEY ([UserAuthorizationKey]) REFERENCES [DbSecurity].[User-Authorization] ([UserAuthorizationKey])
```

#### Uses

[DbSecurity].[UserAuthorization] [Udt].[DateOf] [Udt].[ModeOfInstruction] [Udt].[SurrogateKeyInt] Course

#### **Used By**

[Course].[Class]
[G10\_4].[uvw\_Class]
[Project3].[Load\_ModeOfInstruction]
[Project3].[ShowTableStatusRowCount]
[Project3].[TruncateData]

# [DbSecurity].[UserAuthorization]

### **Properties**

Property	Value		
Collation	SQL_Latin1_General_CP1_CI_AS		
Row Count (~)	7		
Created	7:44:29 AM Friday, December 11, 2020		
Last Modified	7:45:40 AM Friday, December 11, 2020		

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullabilit y	Identity	Default
PK	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	ClassTime	[Udt].[ClassTime]	100	NULL allowed		('10:45')
	IndividualProject	[Udt].[IndividualProject]	100	NULL allowed		('PROJECT 3')
	GroupMemberLastName	[Udt].[Name]	100	NOT NULL		
	GroupMemberFirstName	[Udt].[Name]	100	NOT NULL		
	GroupName	[Udt].[Name]	100	NOT NULL		('GROUP 4')
	DateAdded	[Udt].[DateOf]	8	NULL allowed		(sysdatetim e())

#### **Indexes**

Key	Name	Key Columns	Unique
PK G	PK_UserAuth_0FEC36CB4212426B	UserAuthorizationKey	True

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

(
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),

[ClassTime] [Udt].[ClassTime] NULL CONSTRAINT [DF_UserAutho_Class_4AB81AF0] DEFAULT

('10:45'),

[IndividualProject] [Udt].[IndividualProject] NULL CONSTRAINT [DF_UserAutho_-Indiv_4BAC3F29] DEFAULT ('PROJECT 3'),
```

# Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Tables > DbSecurity.User-Authorization

```
[GroupMemberLastName] [Udt].[Name] NOT NULL,

[GroupMemberFirstName] [Udt].[Name] NOT NULL,

[GroupName] [Udt].[Name] NOT NULL CONSTRAINT [DF_UserAutho_Group_4CA06362] DEFAULT ('GROUP 4'),

[DateAdded] [Udt].[DateOf] NULL CONSTRAINT [DF_UserAutho_DateA_4D94879B] DEFAULT (sysdatetime())

) ON [PRIMARY]

GO

ALTER TABLE [DbSecurity].[UserAuthorization] ADD CONSTRAINT [PK_User-Auth_OFEC36CB4212426B] PRIMARY KEY CLUSTERED ([UserAuthorizationKey]) ON [PRIMARY]

GO
```

#### Uses

[Udt].[ClassTime]

[Udt].[DateOf]

[Udt].[IndividualProject]

[Udt].[Name]

[Udt].[SurrogateKeyInt]

**DbSecurity** 

#### **Used By**

[Course].[Class]

[Course].[Course]

[Course].[ModeofInstruction]

[Department].[Department]

[Department].[Instructor]

[Location].[BuildingLocation]

[Location].[RoomLocation]

[Process].[WorkflowSteps]

[Project 3]. [Show Table Status Row Count]

# **■** [Department].[Department]

# **Properties**

Property	Value		
Collation	SQL_Latin1_General_CP1_CI_AS		
Row Count (~)	86		
Created	7:44:29 AM Friday, December 11, 2020		
Last Modified	7:45:40 AM Friday, December 11, 2020		

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PK	DepartmentKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	DepartmentName	[Udt].[DepartmentName]	100	NOT NULL		
FK	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL		
	DateAdded	[Udt].[DateOf]	8	NULL allowed		(sysdatetime ())
	DateOfLastUpdate	[Udt].[DateOf]	8	NULL allowed		(sysdatetime ())

#### Indexes

Key	Name	Key Columns	Unique
PK2 C	PKDepartme18D372EA557047C1	DepartmentKey	True

# Foreign Keys

Name	Columns
FK_Department_UserAuthorization	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorization-Key]

```
CREATE TABLE [Department].[Department]
(
[DepartmentKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
```

# Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Tables > Department.Department

```
[DepartmentName] [Udt].[DepartmentName] NOT NULL,

[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,

[DateAdded] [Udt].[DateOf] NULL CONSTRAINT [DF__Departmen__DateA__4E88ABD4] DEFAULT (sysdatetime()),

[DateOfLastUpdate] [Udt].[DateOf] NULL CONSTRAINT [DF__Departmen__DateO__4F7CD00D]

DEFAULT (sysdatetime())

ON [PRIMARY]

GO

ALTER TABLE [Department].[Department] ADD CONSTRAINT [PK__Departme__18D372EA557047C1]

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

GO

ALTER TABLE [Department].[Department] ADD CONSTRAINT [FK_Department_UserAuthorization]

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

GO
```

#### Uses

[DbSecurity].[UserAuthorization]

[Udt].[DateOf]

[Udt].[DepartmentName]

[Udt].[SurrogateKeyInt]

Department

#### **Used By**

[Department].[Instructor]
[Project3].[Load\_Department]
[Project3].[ShowTableStatusRowCount]
[Project3].[TruncateData]

# ■ [Department].[Instructor]

# **Properties**

Property	Value		
Collation	SQL_Latin1_General_CP1_CI_AS		
Row Count (~)	1756		
Created	7:44:29 AM Friday, December 11, 2020		
Last Modified	7:45:40 AM Friday, December 11, 2020		

# Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
P <mark>/P</mark> G	InstructorKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	InstructorFirstName	[Udt].[Name]	100	NULL allowed		
	InstructorLastName	[Udt].[Name]	100	NULL allowed		
	InstructorFullName	[Udt].[Name]	100	NULL allowed		
	DepartmentName	[Udt].[DepartmentName]	100	NULL allowed		
FK	DepartmentKey	[Udt].[SurrogateKeyInt]	4	NULL allowed		
FK	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL		
	DateAdded	[Udt].[DateOf]	8	NULL allowed		(sysdatetime ())
	DateOfLastUpdate	[Udt].[DateOf]	8	NULL allowed		(sysdatetime ())

### Indexes

Key	Name	Key Columns	Unique
PK	PKInstruct4C43B9371970A6D9	InstructorKey	True

# Foreign Keys

Name	Columns
FK_Instructor_Department	DepartmentKey->[Department].[Department].[DepartmentKey]

FK_Instructor_UserAuthorization	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[UserAuthorization-Keyl
	Keyj

#### **SQL Script**

```
CREATE TABLE [Department].[Instructor]
[InstructorKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[InstructorFirstName] [Udt].[Name] NULL,
[InstructorLastName] [Udt].[Name] NULL,
[InstructorFullName] [Udt].[Name] NULL,
[DepartmentName] [Udt].[DepartmentName] NULL,
[DepartmentKey] [Udt].[SurrogateKeyInt] NULL,
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateOf] NULL CONSTRAINT [DF Instructo DateA 5070F446] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [Udt].[DateOf] NULL CONSTRAINT [DF_Instructo_DateO_5165187F]
DEFAULT (sysdatetime())
) ON [PRIMARY]
ALTER TABLE [Department].[Instructor] ADD CONSTRAINT [PK Instruct 4C43B9371970A6D9]
PRIMARY KEY CLUSTERED ([InstructorKey]) ON [PRIMARY]
ALTER TABLE [Department].[Instructor] ADD CONSTRAINT [FK Instructor Department] FOREIGN
KEY ([DepartmentKey]) REFERENCES [Department].[Department] ([DepartmentKey])
ALTER TABLE [Department].[Instructor] ADD CONSTRAINT [FK Instructor UserAuthorization]
FOREIGN KEY ([UserAuthorizationKey]) REFERENCES [DbSecurity].[UserAuthorization] ([User-
AuthorizationKey])
```

#### Uses

[DbSecurity].[UserAuthorization]

[Department].[Department]

[Udt].[DateOf]

[Udt].[DepartmentName]

[Udt].[Name]

[Udt].[SurrogateKeyInt]

Department

#### **Used By**

[Project3].[Load Instructor]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

# [groupnUploadfile].[CoursesSpring2017]

### **Properties**

Property	Value		
Collation	SQL_Latin1_General_CP1_CI_AS		
Неар	True		
Row Count (~)	4526		
Created	7:44:29 AM Friday, December 11, 2020		
Last Modified	7:44:29 AM Friday, December 11, 2020		

#### Columns

Name	Data Type	Max Length (Bytes)	Nullability
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 [groupnUploadfile].[CoursesSpring2017]

(
[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,
[Day] [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,
[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]
```

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Tables > groupn-Uploadfile.CoursesSpring2017

GO

#### Uses

groupnUploadfile

### **Used By**

[G10\_4].[uvw\_BuildingLocation1]

[G10\_4].[uvw\_Class]

[G10\_4].[uvw\_Course]

[G10\_4].[uvw\_Department]

[G10\_4].[uvw\_Instructor\_Temp1]

[G10\_4].[uvw\_ModeOfInstruction]

[G10\_4].[uvw\_RoomLocation]

# **■** [Location].[BuildingLocation]

# **Properties**

Property	Value
Collation SQL_Latin1_General_CP1_CI_AS	
Row Count (~)	319
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:45:40 AM Friday, December 11, 2020

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PK C	BuildingKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	BuildingLocation	[Udt].[Location]	100	NOT NULL		
FK	RoomLocationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL		
	RoomLocation	[Udt].[Location]	100	NOT NULL		
FK	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL		
	DateAdded	[Udt].[DateOf]	8	NULL allowed		(sysdatetime( ))
	DateOfLastUpdate	[Udt].[DateOf]	8	NULL allowed		(sysdatetime( ))

### Indexes

Key	Name	Key Columns	Unique
PK C	PK_Building_94E7067FAC7C7514	BuildingKey	True

# Foreign Keys

Name	Columns
FK_BuildingLocation_RoomLocation	RoomLocationKey->[Location].[RoomLocation].[RoomLocationKey]
FK_BuildingLocation_UserAuthorization	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[User-AuthorizationKey]

# **SQL Script**

CREATE TABLE [Location].[BuildingLocation]

```
(
[BuildingKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[BuildingLocation] [Udt].[Location] NOT NULL,
[RoomLocationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[RoomLocation] [Udt].[Location] NOT NULL,
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateOf] NULL CONSTRAINT [DF BuildingL DateA 52593CB8] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [Udt].[DateOf] NULL CONSTRAINT [DF BuildingL DateO 534D60F1]
DEFAULT (sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [Location]. [BuildingLocation] ADD CONSTRAINT [PK -
Building 94E7067FAC7C7514] PRIMARY KEY CLUSTERED ([BuildingKey]) ON [PRIMARY]
ALTER TABLE [Location].[BuildingLocation] ADD CONSTRAINT [FK BuildingLocation Room-
Location] FOREIGN KEY ([RoomLocationKey]) REFERENCES [Location].[RoomLocation] ([Room-
LocationKey])
GO
ALTER TABLE [Location].[BuildingLocation] ADD CONSTRAINT [FK BuildingLocation User-
Authorization] FOREIGN KEY ([UserAuthorizationKey]) REFERENCES [DbSecurity].[User-
Authorization] ([UserAuthorizationKey])
```

#### Uses

[DbSecurity].[UserAuthorization] [Location].[RoomLocation] [Udt].[DateOf] [Udt].[Location] [Udt].[SurrogateKeyInt] Location

#### **Used By**

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

# ☐ [Location].[RoomLocation]

### **Properties**

Property	Value
Collation SQL_Latin1_General_CP1_CI_AS	
Row Count (~)	319
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:45:40 AM Friday, December 11, 2020

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PK	RoomLocationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	RoomLocation	[Udt].[RoomLocation]	100	NOT NULL		('AA TBA')
FK	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL		
	DateAdded	[Udt].[DateOf]	8	NULL allowed		(sysdatetime( ))
	DateOfLastUpdate	[Udt].[DateOf]	8	NULL allowed		(sysdatetime( ))

#### Indexes

Key	Name	Key Columns	Unique
PK C	PK_RoomLoca_EAC6E0957ADB2F6C	RoomLocationKey	True

### Foreign Keys

Name	Columns
FK_RoomLocation_UserAuthorization	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[User-AuthorizationKey]

```
CREATE TABLE [Location].[RoomLocation]

(
[RoomLocationKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),

[RoomLocation] [Udt].[RoomLocation] NOT NULL CONSTRAINT [DF_RoomLocat_Room-L_5441852A] DEFAULT ('AA TBA'),
```

# Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Tables > Location.Room-Location

```
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateOf] NULL CONSTRAINT [DF_RoomLocat_DateA_5535A963] DEFAULT
(sysdatetime()),
[DateOfLastUpdate] [Udt].[DateOf] NULL CONSTRAINT [DF_RoomLocat_DateO_5629CD9C]
DEFAULT (sysdatetime())
) ON [PRIMARY]
GO
ALTER TABLE [Location].[RoomLocation] ADD CONSTRAINT [PK_RoomLoca_EAC6E0957ADB2F6C]
PRIMARY KEY CLUSTERED ([RoomLocationKey]) ON [PRIMARY]
GO
ALTER TABLE [Location].[RoomLocation] ADD CONSTRAINT [FK_RoomLocation_User-Authorization] FOREIGN KEY ([UserAuthorizationKey]) REFERENCES [DbSecurity].[User-Authorization] ([UserAuthorizationKey])
```

#### Uses

[DbSecurity].[UserAuthorization]

[Udt].[DateOf]

[Udt].[RoomLocation]

[Udt].[SurrogateKeyInt]

Location

#### **Used By**

[Location].[BuildingLocation]

[G10\_4].[uvw\_BuildingLocation4]

[Project3].[Load\_RoomLocation]

[Project 3]. [Show Table Status Row Count]

[Project3].[TruncateData]

# ☐ [Process].[WorkflowSteps]

# **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	13
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:45:40 AM Friday, December 11, 2020

# Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity
PK	WorkFlowStepKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1
	WorkFlowStepDescription	[Udt].[Description]	100	NOT NULL	
	WorkFlowStepTableRowCount	[Udt].[Count]	4	NULL allowed	
	StartingDateTime	[Udt].[DateOf]	8	NULL allowed	
	EndingDateTime	[Udt].[DateOf]	8	NULL allowed	
	Class Time	[Udt].[ClassTime]	100	NULL allowed	
FK	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	

#### Indexes

Key	Name	Key Columns	Unique
PKP C	PKWorkflow27726CBF0E456794	WorkFlowStepKey	True

# Foreign Keys

Name	Columns
FK_WorkFlowSteps_UserAuthorization	UserAuthorizationKey->[DbSecurity].[UserAuthorization].[User-AuthorizationKey]

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

# Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Tables > Process.WorkflowSteps

```
[WorkFlowStepKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[WorkFlowStepDescription] [Udt].[Description] NOT NULL,
[WorkFlowStepTableRowCount] [Udt].[Count] NULL,
[StartingDateTime] [Udt].[DateOf] NULL,
[EndingDateTime] [Udt].[DateOf] NULL,
[Class Time] [Udt].[ClassTime] NULL,
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [Process].[WorkflowSteps] ADD CONSTRAINT [PK_Workflow_27726CBF0E456794]
PRIMARY KEY CLUSTERED ([WorkFlowStepKey]) ON [PRIMARY]
GO
ALTER TABLE [Process].[WorkflowSteps] ADD CONSTRAINT [FK_WorkFlowSteps_User-Authorization] FOREIGN KEY ([UserAuthorizationKey]) REFERENCES [DbSecurity].[User-Authorization] ([UserAuthorizationKey])
```

#### Uses

[DbSecurity].[UserAuthorization]

[Udt].[ClassTime]

[Udt].[Count]

[Udt].[DateOf]

[Udt].[Description]

[Udt].[SurrogateKeyInt]

Process

#### **Used By**

[Process].[usp ShowWorkflowSteps]

[Process].[usp\_TrackWorkFlow]

[Project3].[ShowTableStatusRowCount]

# **■ Views**

# Objects

Name
G10_4.uvw_BuildingLocation1
G10_4.uvw_BuildingLocation2
G10_4.uvw_BuildingLocation3
G10_4.uvw_BuildingLocation4
G10_4.uvw_BuildingRoomNumber
G10_4.uvw_Class
G10_4.uvw_Course
G10_4.uvw_Course1
G10_4.uvw_Department
G10_4.uvw_Department1
G10_4.uvw_Instructor
G10_4.uvw_Instructor_Temp1
G10_4.uvw_Instructor_Temp2
G10_4.uvw_Instructor_Temp3
G10_4.uvw_ModeOfInstruction
G10_4.uvw_RoomLocation

# [G10\_4].[uvw\_BuildingLocation1]

### **Properties**

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
ANSI Nulls On	True	
Quoted Identifier On	True	
Created	7:44:29 AM Friday, December 11, 2020	
Last Modified	7:44:29 AM Friday, December 11, 2020	

#### Columns

Name	Data Type	Max Length (Bytes)
id	bigint	8
Location	varchar(50)	50
BuildingLocation	varchar(3)	3

### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_BuildingLocation1]

AS

SELECT DISTINCT

ROW_NUMBER() OVER( ORDER BY Sec ) AS id,

COALESCE(NULLIF([Location], ' '), 'TBA') AS Location,

COALESCE(NULLIF(SUBSTRING([Location], 1, 2), ' '), 'TBA') AS BuildingLocation

FROM groupnUploadfile.CoursesSpring2017;
```

#### Uses

[groupnUploadfile].[CoursesSpring2017] G10 4

#### **Used By**

[G10\_4].[uvw\_BuildingLocation2]

# [G10\_4].[uvw\_BuildingLocation2]

### **Properties**

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
ANSI Nulls On	True	
Quoted Identifier On	True	
Created	7:44:29 AM Friday, December 11, 2020	
Last Modified	7:44:29 AM Friday, December 11, 2020	

#### Columns

Name	Data Type	Max Length (Bytes)
Location	varchar(50)	50
BuildingLocation	varchar(3)	3

### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_BuildingLocation2]

AS

SELECT DISTINCT

Location,

BuildingLocation

FROM G10_4.uvw_BuildingLocation1

GO
```

#### Uses

[G10\_4].[uvw\_BuildingLocation1] G10\_4

#### **Used By**

[G10\_4].[uvw\_BuildingLocation3]

# [G10\_4].[uvw\_BuildingLocation3]

# **Properties**

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
ANSI Nulls On	True	
Quoted Identifier On	True	
Created	7:44:29 AM Friday, December 11, 2020	
Last Modified	7:44:29 AM Friday, December 11, 2020	

#### Columns

Name	Data Type	Max Length (Bytes)
id	bigint	8
Location	varchar(50)	50
BuildingLocation	varchar(3)	3

### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_BuildingLocation3]

AS

SELECT ROW_NUMBER() OVER( ORDER BY Location ) AS id,

Location,

BuildingLocation

FROM G10_4.uvw_BuildingLocation2

GO
```

### Uses

[G10\_4].[uvw\_BuildingLocation2] G10\_4

#### **Used By**

[G10\_4].[uvw\_BuildingLocation4]

## [G10\_4].[uvw\_BuildingLocation4]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls On	True
Quoted Identifier On	True
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:44:29 AM Friday, December 11, 2020

#### Columns

Name	Data Type	Max Length (Bytes)
Location	varchar(50)	50
BuildingLocation	varchar(3)	3
RoomLocation	[Udt].[RoomLocation]	100
RoomLocationKey	[Udt].[SurrogateKeyInt]	4

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_BuildingLocation4]

AS

SELECT A.[Location],

A.BuildingLocation,

B.RoomLocation,

B.RoomLocationKey

FROM G10_4.uvw_BuildingLocation3 AS A FULL OUTER JOIN Location.Room-
Location AS B ON A.id = B.RoomLocationKey

GO
```

#### Uses

[Location].[RoomLocation]
[G10\_4].[uvw\_BuildingLocation3]
[Udt].[RoomLocation]
[Udt].[SurrogateKeyInt]
G10\_4

#### **Used By**

[Project3].[Load\_BuildingLocation]

### [G10\_4].[uvw\_BuildingRoomNumber]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls On	True
Quoted Identifier On	True
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:44:29 AM Friday, December 11, 2020

#### Columns

Name	Data Type	Max Length (Bytes)
RoomNumber	varchar(50)	50

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_BuildingRoomNumber] AS

SELECT SUBSTRING([RoomLocation], 3, 100) AS RoomNumber

FROM G10_4.uvw_RoomLocation;

G0
```

#### Uses

[G10\_4].[uvw\_RoomLocation] G10\_4

#### **Used By**

[Project3].[Load\_RoomLocation]

# © [G10\_4].[uvw\_Class]

#### **Properties**

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
ANSI Nulls On	True	
Quoted Identifier On	True	
Created	7:44:29 AM Friday, December 11, 2020	
Last Modified	7:44:29 AM Friday, December 11, 2020	

#### Columns

Name	Data Type	Max Length (Bytes)
CourseKey	[Udt].[SurrogateKeyInt]	4
Sec	varchar(50)	50
Code	varchar(50)	50
Course	varchar(8)	8
CourseDescription	[Udt].[CourseDesc]	50
Instructor	varchar(50)	50
Day	varchar(50)	50
Time	varchar(50)	50
NumCredits	varchar(50)	50
Enrolled	varchar(50)	50
Limit	varchar(50)	50
OverTally	int	4
ModeOfInstructionKey	[Udt].[SurrogateKeyInt]	4
ModeOfInstruction	varchar(50)	50

```
CREATE VIEW [G10_4].[uvw_Class] AS

(SELECT c.CourseKey,
a.Sec,
a.Code,
SUBSTRING(a.[Course (hr, crd)], 1, 8) as Course,
c.CourseDescription,
CASE WHEN a.Instructor = ',' THEN 'TBA' ELSE a.Instructor END as Instructor,
CASE WHEN a.DAY = ' ' THEN 'TBA' ELSE a.DAY END as Day,
CASE WHEN a.time = '-' THEN 'TBA' ELSE a.TIME END as Time,
CASE WHEN a.[Course (hr, crd)] != ' ' THEN SUBSTRING([Course (hr, crd)],
```

### Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Views > G10\_4.uvw\_-Class

#### Uses

[Course].[Course]
[Course].[ModeofInstruction]
[groupnUploadfile].[CoursesSpring2017]
[Udt].[CourseDesc]
[Udt].[SurrogateKeyInt]
G10\_4

#### **Used By**

[Project3].[Load\_Class]

## [G10\_4].[uvw\_Course]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls On	True
Quoted Identifier On	True
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:44:29 AM Friday, December 11, 2020

#### Columns

Name	Data Type	Max Length (Bytes)
CourseName	varchar(50)	50
Description	varchar(50)	50

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_Course] AS

SELECT DISTINCT

[Course (hr, crd)] as CourseName,

Description AS Description

FROM groupnUploadfile.CoursesSpring2017;

GO
```

#### Uses

[groupnUploadfile].[CoursesSpring2017] G10\_4

#### **Used By**

[G10\_4].[uvw\_Course1]

## © [G10\_4].[uvw\_Course1]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls On	True
Quoted Identifier On	True
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:44:29 AM Friday, December 11, 2020

#### Columns

Name	Data Type	Max Length (Bytes)
CourseName	varchar(50)	50
Description	varchar(50)	50

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_Course1] AS

SELECT DISTINCT

COALESCE(NULLIF([CourseName],''), 'TBA') AS CourseName,

COALESCE(NULLIF([Description],''), 'TBA') AS Description FROM

G10_4.uvw_Course

GO
```

#### Uses

[G10\_4].[uvw\_Course] G10\_4

**Used By** 

[Project3].[Load\_Course]

## [G10\_4].[uvw\_Department]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls On	True
Quoted Identifier On	True
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:44:29 AM Friday, December 11, 2020

#### Columns

Name	Data Type	Max Length (Bytes)
DepartmentName	varchar(50)	50

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_Department] AS SELECT DISTINCT SUBSTRING([Course (hr, crd)], 0, CHARINDEX(' ', [Course (hr, crd)])) AS [DepartmentName]
FROM groupnUploadfile.CoursesSpring2017;
GO
```

#### Uses

[groupnUploadfile].[CoursesSpring2017] G10\_4

#### **Used By**

[G10\_4].[uvw\_Department1]

### [G10\_4].[uvw\_Department1]

#### **Properties**

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
ANSI Nulls On	True	
Quoted Identifier On	True	
Created	7:44:29 AM Friday, December 11, 2020	
Last Modified	7:44:29 AM Friday, December 11, 2020	

#### Columns

Name	Data Type	Max Length (Bytes)
DepartmentName	varchar(50)	50

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_Department1] AS SELECT DISTINCT COALESCE(NULLIF([Department-Name],''), 'TBA') AS DepartmentName FROM G10_4.uvw_Department

G0
```

#### Uses

[G10\_4].[uvw\_Department] G10\_4

#### **Used By**

[Project3].[Load\_Department]

## G10\_4].[uvw\_Instructor]

#### **Properties**

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
ANSI Nulls On	True	
Quoted Identifier On	True	
Created	7:44:29 AM Friday, December 11, 2020	
Last Modified	7:44:29 AM Friday, December 11, 2020	

#### Columns

Name	Data Type	Max Length (Bytes)
InstructorLastName	varchar(50)	50
InstructorFirstName	varchar(50)	50
InstructorFullName	varchar(50)	50
DepartmentName	varchar(50)	50
DepartmentKey	bigint	8

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_Instructor] AS

SELECT a.InstructorLastName2 as InstructorLastName,

a.InstructorFirstName2 as InstructorFirstName,

a.InstructorFullName2 as InstructorFullName,

a.DepartmentName2 as DepartmentName,

b.DepartmentKey as DepartmentKey

FROM G10_4.uvw_Instructor_Temp2 as a

INNER JOIN G10_4.uvw_Instructor_Temp3 as b

on a.DepartmentName2 = b.DepartmentName2

GO
```

#### Uses

```
[G10_4].[uvw_Instructor_Temp2]
[G10_4].[uvw_Instructor_Temp3]
G10_4
```

#### **Used By**

[Project3].[Load\_Instructor]

# [G10\_4].[uvw\_Instructor\_Temp1]

#### **Properties**

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
ANSI Nulls On	True	
Quoted Identifier On	True	
Created	7:44:29 AM Friday, December 11, 2020	
Last Modified	7:44:29 AM Friday, December 11, 2020	

#### Columns

Name	Data Type	Max Length (Bytes)
InstructorLastName1	varchar(50)	50
InstructorFirstName1	varchar(50)	50
InstructorFullName1	varchar(50)	50
DepartmentName1	varchar(50)	50

```
CREATE VIEW [G10 4].[uvw Instructor Temp1] AS
       SELECT DISTINCT
           CASE WHEN LEN(Instructor) < 2 THEN 'TBA'
           ELSE
           COALESCE (
               NULLIF(
                   SUBSTRING (Instructor, 1,
                       CASE when CHARINDEX(',', Instructor) = 0 OR CHARINDEX('',
Instructor) = 0 THEN len(Instructor)
                       ELSE
                                CHARINDEX(',', Instructor)-1 END)
                    ,','), 'TBA')
                    END AS InstructorLastName1,
           COALESCE (NULLIF (SUBSTRING (Instructor, CHARINDEX (' ', Instructor) + 1,
LEN(Instructor)) ,','), 'TBA') AS InstructorFirstName1,
           COALESCE (NULLIF (Instructor,','), 'TBA') AS InstructorFullName1,
           COALESCE (NULLIF (SUBSTRING ([Course (hr, crd)], 0, CHARINDEX('', [Course
(hr, crd)])),''), 'TBA') AS DepartmentName1
        FROM groupnUploadfile.CoursesSpring2017
GO
```

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Views > G10\_4.uvw\_Instructor\_Temp1

Uses

[groupnUploadfile].[CoursesSpring2017]
G10\_4

Used By

[G10\_4].[uvw\_Instructor\_Temp2]

# G10\_4].[uvw\_Instructor\_Temp2]

#### **Properties**

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
ANSI Nulls On	True	
Quoted Identifier On	True	
Created	7:44:29 AM Friday, December 11, 2020	
Last Modified	7:44:29 AM Friday, December 11, 2020	

#### Columns

Name	Data Type	Max Length (Bytes)
InstructorLastName2	varchar(50)	50
InstructorFirstName2	varchar(50)	50
InstructorFullName2	varchar(50)	50
DepartmentName2	varchar(50)	50

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_Instructor_Temp2] AS

SELECT DISTINCT

COALESCE(NULLIF(InstructorLastName1,''), 'TBA') AS InstructorLastName2,

COALESCE(NULLIF(InstructorFirstName1,''), 'TBA') AS InstructorFirstName2,

COALESCE(NULLIF(InstructorFullName1,''), 'TBA') AS InstructorFullName2,

COALESCE(NULLIF(DepartmentName1,''), 'TBA') AS DepartmentName2

FROM G10_4.uvw_Instructor_Temp1

GO
```

#### Uses

```
[G10_4].[uvw_Instructor_Temp1] G10_4
```

#### **Used By**

```
[G10_4].[uvw_Instructor]
[G10_4].[uvw_Instructor_Temp3]
```

## [G10\_4].[uvw\_Instructor\_Temp3]

#### **Properties**

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
ANSI Nulls On	True	
Quoted Identifier On	True	
Created	7:44:29 AM Friday, December 11, 2020	
Last Modified	7:44:29 AM Friday, December 11, 2020	

#### Columns

Name	Data Type	Max Length (Bytes)
DepartmentName2	varchar(50)	50
DepartmentKey	bigint	8

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_Instructor_Temp3] AS

SELECT DISTINCT DepartmentName2, ROW_NUMBER() OVER(ORDER BY DepartmentName2) AS

DepartmentKey

FROM G10_4.uvw_Instructor_Temp2

GROUP BY DepartmentName2

GO
```

#### Uses

[G10\_4].[uvw\_Instructor\_Temp2] G10\_4

#### **Used By**

[G10\_4].[uvw\_Instructor]

## [G10\_4].[uvw\_ModeOfInstruction]

#### **Properties**

Property	Value	
Collation	SQL_Latin1_General_CP1_CI_AS	
ANSI Nulls On	True	
Quoted Identifier On	True	
Created	7:44:29 AM Friday, December 11, 2020	
Last Modified	7:44:29 AM Friday, December 11, 2020	

#### Columns

Name	Data Type	Max Length (Bytes)
ModeOfInstruction	varchar(50)	50

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_ModeOfInstruction] AS SELECT DISTINCT COALESCE(NULLIF([Mode of Instruction],''), 'TBA') AS ModeOfInstruction FROM groupnUploadfile.Courses-Spring2017;

G0
```

#### Uses

[groupnUploadfile].[CoursesSpring2017] G10\_4

#### **Used By**

[Project3].[Load\_ModeOfInstruction]

### [G10\_4].[uvw\_RoomLocation]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls On	True
Quoted Identifier On	True
Created	7:44:29 AM Friday, December 11, 2020
Last Modified	7:44:29 AM Friday, December 11, 2020

#### Columns

Name	Data Type	Max Length (Bytes)
RoomLocation	varchar(50)	50

#### **SQL Script**

```
CREATE VIEW [G10_4].[uvw_RoomLocation] AS SELECT DISTINCT

COALESCE(NULLIF([Location],' '), 'AA TBA') AS RoomLocation FROM groupn-
Uploadfile.CoursesSpring2017;

GO
```

#### Uses

[groupnUploadfile].[CoursesSpring2017] G10\_4

#### **Used By**

[G10\_4].[uvw\_BuildingRoomNumber]

### Stored Procedures

#### Objects

Name
Process.usp_ShowWorkflowSteps
Process.usp_TrackWorkFlow
Project3.AddForeignKeys
Project3.DropForeignKeys
Project3.Load_BuildingLocation
Project3.Load_Class
Project3.Load_Course
Project3.Load_Department
Project3.Load_Instructor
Project3.Load_ModeOfInstruction
Project3.Load_RoomLocation
Project3.LoadData
Project3.ShowTableStatusRowCount
Project3.TruncateData

## [Process].[usp\_ShowWorkflowSteps]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

#### Uses

[Process].[WorkflowSteps]

**Process** 

## [Process].[usp\_TrackWorkFlow]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@WorkflowDescription	Description	100
@WorkFlowStepTableRowCount	Count	4
@StartingDateTime	DateOf	8
@EndingDateTime	DateOf	8
@UserAuthorizationKey	SurrogateKeyInt	4

```
-- -----
-- Author: <Erik Kim>
-- Create date: <12/1/2020>
-- Description: <Track Work Flow>
CREATE PROCEDURE [Process].[usp TrackWorkFlow]
   -- Add the parameters for the stored procedure here
   @WorkflowDescription [Udt].[Description],
   @WorkFlowStepTableRowCount [Udt].[Count],
   @StartingDateTime [Udt].[DateOf],
   @EndingDateTime [Udt].[DateOf],
   @UserAuthorizationKey [Udt].[SurrogateKeyInt]
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   -- Insert statements for procedure here
   INSERT INTO [Process].[WorkflowSteps]
       WorkFlowStepDescription,
       WorkFlowStepTableRowCount,
       StartingDateTime,
       EndingDateTime,
```

```
[Class Time],
    UserAuthorizationKey
)

VALUES
    (@WorkflowDescription, @WorkFlowStepTableRowCount, @StartingDateTime, @EndingDateTime, '10:45',
    @UserAuthorizationKey);

END;
GO
```

#### Uses

[Process].[WorkflowSteps]

[Udt].[Count]

[Udt].[DateOf]

[Udt].[Description]

[Udt].[SurrogateKeyInt]

Process

#### **Used By**

[Project3] [AddForeignKeys]

[Project3].[DropForeignKeys]

[Project3].[Load\_BuildingLocation]

[Project3].[Load\_Class]

[Project3].[Load\_Course]

[Project3].[Load\_Department]

[Project3].[Load\_Instructor]

[Project3].[Load\_ModeOfInstruction]

[Project3].[Load\_RoomLocation]

[Project3].[LoadData]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

### [Project3].[AddForeignKeys]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Erik Kim>
-- Create date: <12/7/2020>
-- Description: <Add Foreign Keys>
CREATE PROCEDURE [Project3].[AddForeignKeys] @UserAuthorizationKey INT
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
   ALTER TABLE [Course].[Class]
   ADD CONSTRAINT FK_Class_ModeOfInstruction
       FOREIGN KEY (ModeOfInstructionKey)
       REFERENCES [Course].[ModeOfInstruction] (ModeOfInstructionKey);
   ALTER TABLE [Course].[Class]
   ADD CONSTRAINT FK Class Course
       FOREIGN KEY (CourseKey)
       REFERENCES [Course].[Course] (CourseKey);
   ALTER TABLE [Department].[Instructor]
   ADD CONSTRAINT FK Instructor Department
       FOREIGN KEY (DepartmentKey)
       REFERENCES [Department].[Department] (DepartmentKey);
   ALTER TABLE [Location].[BuildingLocation]
   ADD CONSTRAINT FK BuildingLocation RoomLocation
       FOREIGN KEY (RoomLocationKey)
       REFERENCES [Location].[RoomLocation] (RoomLocationKey);
   ALTER TABLE [Process].[WorkflowSteps]
   ADD CONSTRAINT FK_WorkFlowSteps_UserAuthorization
       FOREIGN KEY (UserAuthorizationKey)
```

```
REFERENCES [DbSecurity]. UserAuthorization (UserAuthorizationKey);
   ALTER TABLE [Course].[Class]
   ADD CONSTRAINT FK Class UserAuthorization
       FOREIGN KEY (UserAuthorizationKey)
       REFERENCES [DbSecurity]. UserAuthorization (UserAuthorizationKey);
   ALTER TABLE [Course].[Course]
   ADD CONSTRAINT FK Course UserAuthorization
       FOREIGN KEY (UserAuthorizationKey)
       REFERENCES [DbSecurity]. UserAuthorization (UserAuthorizationKey);
   ALTER TABLE [Course].[ModeOfInstruction]
   ADD CONSTRAINT FK ModeOfInstruction UserAuthorization
       FOREIGN KEY (UserAuthorizationKey)
       REFERENCES [DbSecurity].UserAuthorization (UserAuthorizationKey);
   ALTER TABLE [Department].[Department]
   ADD CONSTRAINT FK Department UserAuthorization
       FOREIGN KEY (UserAuthorizationKey)
       REFERENCES [DbSecurity].UserAuthorization (UserAuthorizationKey);
   ALTER TABLE [Department].[Instructor]
   ADD CONSTRAINT FK Instructor UserAuthorization
       FOREIGN KEY (UserAuthorizationKey)
       REFERENCES [DbSecurity]. UserAuthorization (UserAuthorizationKey);
   ALTER TABLE [Location].[BuildingLocation]
   ADD CONSTRAINT FK BuildingLocation UserAuthorization
       FOREIGN KEY (UserAuthorizationKey)
       REFERENCES [DbSecurity]. UserAuthorization (UserAuthorizationKey);
   ALTER TABLE [Location].[RoomLocation]
   ADD CONSTRAINT FK RoomLocation UserAuthorization
        FOREIGN KEY (UserAuthorizationKey)
       REFERENCES [DbSecurity].UserAuthorization (UserAuthorizationKey);
   DECLARE @WorkFlowStepTableRowCount INT;
   SET @WorkFlowStepTableRowCount = 0;
   DECLARE @EndingDateTime DATETIME2 = SYSDATETIME();
   EXEC [Process].[usp_TrackWorkFlow] 'Add Foreign Keys',
                                       @WorkFlowStepTableRowCount,
                                       @StartingDateTime,
                                       @EndingDateTime,
                                       @UserAuthorizationKey;
END;
GO
```

#### Uses

[Process].[usp\_TrackWorkFlow] Project3

**Used By** 

## [Project3].[DropForeignKeys]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Erik Kim>
-- Create date: <12/7/2020>
-- Description: <Drop Foreign Keys>
CREATE PROCEDURE [Project3].[DropForeignKeys] @UserAuthorizationKey INT
BEGIN
  SET NOCOUNT ON;
   DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
   ALTER TABLE [Course].[Class]
   DROP CONSTRAINT FK Class ModeOfInstruction
   ALTER TABLE [Course].[Class]
   DROP CONSTRAINT FK Class Course
   ALTER TABLE [Department].[Instructor]
   DROP CONSTRAINT FK Instructor Department
   ALTER TABLE [Location].[BuildingLocation]
   DROP CONSTRAINT FK BuildingLocation RoomLocation
   ALTER TABLE [Process].[WorkflowSteps]
   DROP CONSTRAINT FK WorkFlowSteps UserAuthorization
   ALTER TABLE [Course].[Class]
   DROP CONSTRAINT FK Class UserAuthorization
   ALTER TABLE [Course].[Course]
   DROP CONSTRAINT FK Course UserAuthorization
   ALTER TABLE [Course].[ModeOfInstruction]
   DROP CONSTRAINT FK ModeOfInstruction UserAuthorization
   ALTER TABLE [Department].[Department]
   DROP CONSTRAINT FK Department UserAuthorization
   ALTER TABLE [Department].[Instructor]
   DROP CONSTRAINT FK Instructor UserAuthorization
```

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Programmability > Stored Procedures > Project3.DropForeignKeys

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

DROP CONSTRAINT FK_BuildingLocation_UserAuthorization

ALTER TABLE [Location]. [RoomLocation]

DROP CONSTRAINT FK_RoomLocation_UserAuthorization

DECLARE @WorkFlowStepTableRowCount INT;

SET @WorkFlowStepTableRowCount = 0;

DECLARE @EndingDateTime DATETIME2 = SYSDATETIME();

EXEC [Process]. [usp_TrackWorkFlow] 'Drop Foreign Keys',

@WorkFlowStepTableRowCount,

@StartingDateTime,

@EndingDateTime,

@UserAuthorizationKey;

END;

GO
```

Uses

[Process].[usp\_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	SurrogateKeyInt	4

```
-- Author: <Haibo Liu>
-- Create date: <12/3/2020>
-- Description: <Load Data Into BuildingLocation>
CREATE PROCEDURE [Project3]. [Load BuildingLocation] @UserAuthorizationKey
[Udt].[SurrogateKeyInt]
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @DateAdded [Udt].[DateOf];
   SET @DateAdded = SYSDATETIME();
   DECLARE @DateOfLastUpdate [Udt].[DateOf];
   SET @DateOfLastUpdate = SYSDATETIME();
   DECLARE @StartingDateTime [Udt].[DateOf];
   SET @StartingDateTime = SYSDATETIME();
   DECLARE @SQL AS NVARCHAR (MAX)
   SET @SQL='CREATE OR ALTER VIEW G10 4.uvw BuildingLocation1
              AS
       SELECT DISTINCT
      ROW NUMBER() OVER( ORDER BY Sec ) AS id,
      COALESCE (NULLIF ([Location], '' ''), ''TBA'') AS Location,
      COALESCE (NULLIF (SUBSTRING ([Location], 1, 2), '' ''), ''TBA'') AS Building-
Location
       FROM groupnUploadfile.CoursesSpring2017;
```

```
EXEC (@SQL)
         DECLARE @SQL2 AS NVARCHAR (MAX)
         SET @SQL2 = 'CREATE OR ALTER VIEW G10 4.uvw BuildingLocation2
                                       SELECT DISTINCT
                                       Location,
                                       BuildingLocation
                                        FROM G10 4.uvw BuildingLocation1'
         EXEC (@SQL2)
         DECLARE @SQL3 AS NVARCHAR (MAX)
         SET @SQL3 ='CREATE OR ALTER VIEW G10_4.uvw_BuildingLocation3
                                        SELECT ROW NUMBER() OVER( ORDER BY Location ) AS id,
                                        Location,
                                       BuildingLocation
                                        FROM G10 4.uvw BuildingLocation2'
         EXEC (@SQL3)
         DECLARE @SQL4 AS NVARCHAR (MAX)
         SET @SQL4 = 'CREATE OR ALTER VIEW G10_4.uvw_BuildingLocation4
                                       SELECT A. [Location],
                                       A.BuildingLocation,
                                        B.RoomLocation,
                                       B.RoomLocationKey
                                       FROM G10 4.uvw BuildingLocation3 AS A FULL OUTER JOIN Location.Room-
Location AS B ON A.id = B.RoomLocationKey '
        EXEC (@SQL4)
         INSERT INTO [Location].BuildingLocation(BuildingLocation,RoomLocation,RoomLocation
Key, UserAuthorizationKey, DateAdded, DateOfLastUpdate)
         SELECT DISTINCT
                   {\tt BuildingLocation, RoomLocation, RoomLocation, @UserAuthorizationKey, @Date-leadingLocation, and a substitution of the property of the pro
Added, @DateOfLastUpdate
                   FROM G10 4.uvw BuildingLocation4
         DECLARE @EndingDateTime [Udt].[DateOf];
         SET @EndingDateTime = SYSDATETIME();
         DECLARE @WorkFlowStepTableRowCount INT;
         SET @WorkFlowStepTableRowCount =
                   SELECT COUNT(*) FROM [Location].[BuildingLocation]
         );
         EXEC [Process].[usp TrackWorkFlow] 'Loads data into [Location].[BuildingLocation]',
                                                                                                  @WorkFlowStepTableRowCount,
```

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Programmability > Stored Procedures > Project3.Load\_BuildingLocation

```
@StartingDateTime,
    @EndingDateTime,
    @UserAuthorizationKey;

SELECT *
FROM [Location].[BuildingLocation];
END;
GO
```

#### Uses

[Location].[BuildingLocation]
[G10\_4].[uvw\_BuildingLocation4]
[Process].[usp\_TrackWorkFlow]
[Udt].[DateOf]
[Udt].[SurrogateKeyInt]
Project3

#### **Used By**

# [Project3].[Load\_Class]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: Marlon Louis
-- Create date: <12/2/2020>
-- Description: <Load Data Into Class>
CREATE PROCEDURE [Project3].[Load Class] @UserAuthorizationKey [Udt].[SurrogateKeyInt]
BEGIN
  SET NOCOUNT ON;
   TRUNCATE TABLE Course.Class
   DECLARE @DateAdded [Udt].[DateOf];
   SET @DateAdded = SYSDATETIME();
   DECLARE @DateOfLastUpdate [Udt].[DateOf];
   SET @DateOfLastUpdate = SYSDATETIME();
   DECLARE @StartingDateTime [Udt].[DateOf];
   SET @StartingDateTime = SYSDATETIME();
   --VIEW
   DECLARE @SQL AS NVARCHAR (MAX)
   SET @SQL='CREATE OR ALTER VIEW G10 4.uvw Class AS
       (SELECT c.CourseKey,
       a.Sec,
       a.Code,
       SUBSTRING(a.[Course (hr, crd)], 1, 8) as Course,
       c.CourseDescription,
       CASE WHEN a.Instructor = '','' THEN ''TBA'' ELSE a.Instructor END as
Instructor,
```

```
CASE WHEN a.DAY = '' '' THEN ''TBA'' ELSE a.DAY END as Day,
        CASE WHEN a.time = ''-'' THEN ''TBA'' ELSE a.TIME END as Time,
       CASE WHEN a.[Course (hr, crd)] != '' '' THEN SUBSTRING([Course (hr, crd)],
CHARINDEX('','', [Course (hr, crd)])+2, (LEN([Course (hr, crd)])-(CHARINDEX('','',
[Course (hr, crd)])+2))) END as NumCredits,
        a.Enrolled,
        a.Limit.
       CASE WHEN CAST(a.Enrolled AS INT) > CAST(a.Limit AS INT) then CAST(a.Enrolled
AS INT) - CAST(a.Limit AS INT) ELSE 0 END as OverTally,
       mo.ModeOfInstructionKey,
       CASE WHEN a. [Mode of Instruction] IS NULL THEN ''TBA'' ELSE a. [Mode of
Instruction] END as ModeOfInstruction
        FROM groupnUploadfile.CoursesSpring2017 as a inner join [Course].[Course] as c
on a.[Course (hr, crd)] = c.CourseName
       INNER JOIN Course.ModeOfInstruction as mo on a.[Mode of Instruction] = mo.Mode-
OfInstruction where a.description != '' '');'
   EXEC (@SQL)
   INSERT INTO Course.Class
   CourseKey,
   Section,
   CourseCode,
   CourseName,
   CourseDescription,
   InstructorFullName,
   Day,
   Hours,
   NumberOfCredits,
   NumberEnrolled,
   Limit,
   OverTally,
   ModeOfInstructionKey,
   ModeOfInstruction,
   UserAuthorizationKey,
   DateAdded,
   DateOfLastUpdate
   SELECT a.CourseKey, a.Sec, a.Code, a.Course, a.CourseDescription, a.instructor,
a.day, a.time, a.NumCredits, a.enrolled, a.limit, a.overtally, a.ModeOfInstructionKey,
a.ModeOfInstruction, @UserAuthorizationKey, @DateAdded, @DateOfLastUpdate
   FROM G10 4.uvw Class AS a;
   DECLARE @EndingDateTime DATETIME2;
   SET @EndingDateTime = SYSDATETIME();
   DECLARE @WorkFlowStepTableRowCount INT;
   SET @WorkFlowStepTableRowCount =
       SELECT COUNT(*) FROM [Course].[Class]
   );
   EXEC [Process].[usp TrackWorkFlow] 'Loads data into [Project3].[Class]',
```

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Programmability > Stored Procedures > Project3.Load\_Class

#### Uses

[Course].[Class]
[G10\_4].[uvw\_Class]
[Process].[usp\_TrackWorkFlow]
[Udt].[DateOf]
[Udt].[SurrogateKeyInt]
Project3

Used By

# [Project3].[Load\_Course]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: Jamil Kocacal
-- Create date: 12/3/2020
-- Description: <Load Data into Course>; [Project3].[Load Course],
CREATE PROCEDURE [Project3].[Load_Course] @UserAuthorizationKey [Udt].[SurrogateKey-
Int]
AS
BEGIN
  SET NOCOUNT ON;
  DECLARE @DateAdded [Udt].[DateOf];
   SET @DateAdded = SYSDATETIME();
   DECLARE @DateOfLastUpdate [Udt].[DateOf];
   SET @DateOfLastUpdate = SYSDATETIME();
  DECLARE @StartingDateTime [Udt].[DateOf];
   SET @StartingDateTime = SYSDATETIME();
   /*---- DELETE ----*/
   DECLARE @SQL2 AS NVARCHAR(MAX)
   SET @SQL2=N'
       DROP VIEW IF EXISTS G10 4.uvw Course
       DROP VIEW IF EXISTS G10 4.uvw Coursel'
   EXEC (@SQL2)
   /*=======*/
   DECLARE @SQL AS NVARCHAR (MAX)
   SET @SQL=N'
       CREATE VIEW G10 4.uvw Course AS
       SELECT DISTINCT
```

```
[Course (hr, crd)] as CourseName,
           Description AS Description
   FROM groupnUploadfile.CoursesSpring2017;'
   EXEC (@SQL)
   /*=======*/
   DECLARE @SQL3 AS NVARCHAR (MAX);
   SET @SQL3
       = N'CREATE OR ALTER VIEW G10_4.uvw_Course1 AS
         SELECT DISTINCT
               COALESCE(NULLIF([CourseName],''''), ''TBA'') AS CourseName,
               COALESCE(NULLIF([Description],''''), ''TBA'') AS Description FROM
G10 4.uvw Course';
   EXEC (@SQL3);
   INSERT INTO Course.Course(CourseName, CourseDescription, UserAuthorizationKey, Date-
Added, DateOfLastUpdate)
   SELECT [CourseName], [Description], @UserAuthorizationKey, @DateAdded, @DateOfLast-
Update
   FROM G10 4.uvw Coursel;
   DECLARE @EndingDateTime DATETIME2;
   SET @EndingDateTime = SYSDATETIME();
   DECLARE @WorkFlowStepTableRowCount INT;
   SET @WorkFlowStepTableRowCount = (SELECT COUNT(*) FROM [Course].[Course]);
   EXEC [Process].[usp TrackWorkFlow] 'Loads data into [Project3].[ModeOf-
Instruction]',
                                      @WorkFlowStepTableRowCount,
                                      @StartingDateTime,
                                      @EndingDateTime,
                                     @UserAuthorizationKey;
   SELECT *
   FROM [Course].[Course];
END;
GO
```

#### Uses

[Course].[Course]
[G10\_4].[uvw\_Course1]
[Process].[usp\_TrackWorkFlow]
[Udt].[DateOf]
[Udt].[SurrogateKeyInt]
Project3

#### **Used By**

## [Project3].[Load\_Department]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: <Harjit Liyal>
-- Create date: <12/2/2020>
-- Description: <Load Data Into Department>
CREATE PROCEDURE [Project3].[Load Department] @UserAuthorizationKey [Udt].[SurrogateKey-
Int]
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @DateAdded [Udt].[DateOf];
    SET @DateAdded = SYSDATETIME();
   DECLARE @DateOfLastUpdate [Udt].[DateOf];
   SET @DateOfLastUpdate = SYSDATETIME();
   DECLARE @StartingDateTime [Udt].[DateOf];
   SET @StartingDateTime = SYSDATETIME();
   DECLARE @SQL AS NVARCHAR (MAX);
    SET @SQL
= N'CREATE OR ALTER VIEW G10_4.uvw_Department AS SELECT DISTINCT SUBSTRING([Course (hr, crd)], 0, CHARINDEX('' '', [Course (hr, crd)])) AS [Department-
   FROM groupnUploadfile.CoursesSpring2017;';
    EXEC (@SQL);
    DECLARE @SQL2 AS NVARCHAR (MAX);
```

```
SET @SQL2
      = N'CREATE OR ALTER VIEW G10 4.uvw Department1 AS SELECT DISTINCT
COALESCE (NULLIF ([DepartmentName],''', ''TBA'') AS DepartmentName FROM G10 4.uvw -
Department';
   EXEC (@SQL2);
   INSERT INTO Department.Department
       DepartmentName,
       UserAuthorizationKey,
        DateAdded,
       DateOfLastUpdate
   SELECT DepartmentName,
           @UserAuthorizationKey,
          @DateAdded,
          @DateOfLastUpdate
   FROM G10 4.uvw Department1;
   DECLARE @EndingDateTime DATETIME2;
   SET @EndingDateTime = SYSDATETIME();
   DECLARE @WorkFlowStepTableRowCount INT;
   SET @WorkFlowStepTableRowCount =
       SELECT COUNT(*) FROM [Department].[Department]
   );
   EXEC [Process].[usp TrackWorkFlow] 'Loads data into [Department].[Department]',
                                       @WorkFlowStepTableRowCount,
                                       @StartingDateTime,
                                       @EndingDateTime,
                                       @UserAuthorizationKey;
   SELECT *
   FROM [Department].[Department];
END;
GO
```

#### Uses

[Department].[Department]
[G10\_4].[uvw\_Department1]
[Process].[usp\_TrackWorkFlow]
[Udt].[DateOf]
[Udt].[SurrogateKeyInt]
Project3

#### **Used By**

## [Project3].[Load\_Instructor]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

```
-- Author: Jonathan Eng
-- Create date: 12/9/2020
-- Description: <Load Data into Instructor>; [Project3].[Load Instructor],
CREATE PROCEDURE [Project3].[Load Instructor] @UserAuthorizationKey [Udt].[Surrogate-
KeyInt]
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @DateAdded [Udt].[Dateof];
   SET @DateAdded = SYSDATETIME();
   DECLARE @DateOfLastUpdate [Udt].[Dateof];
   SET @DateOfLastUpdate = SYSDATETIME();
   DECLARE @StartingDateTime [Udt].[Dateof];
   SET @StartingDateTime = SYSDATETIME();
   /*=======*/
   DECLARE @SQL AS NVARCHAR (MAX)
   DROP VIEW IF EXISTS G10 4.uvw Instructor
   SET @SQL='CREATE OR ALTER VIEW G10 4.uvw Instructor Temp1 AS
       SELECT DISTINCT
          CASE WHEN LEN(Instructor) < THEN ''TBA''
          ELSE
           COALESCE (
               NULLIF(
                 SUBSTRING (Instructor, 1,
                      CASE when CHARINDEX('','', Instructor) = 0 OR CHARINDEX(''',
Instructor) = 0 THEN len(Instructor)
```

```
ELSE
                                 CHARINDEX('','', Instructor)-1 END)
                    ,'',''), ''TBA'')
                    END AS InstructorLastName1,
            COALESCE (NULLIF (SUBSTRING (Instructor,
                                                    CHARINDEX('' '', Instructor) + 1,
LEN(Instructor)) ,'',''), ''TBA'') AS InstructorFirstName1,
            COALESCE (NULLIF (Instructor, '', ''), ''TBA'') AS InstructorFullName1,
           COALESCE(NULLIF(SUBSTRING([Course (hr, crd)], 0, CHARINDEX('''', [Course
(hr, crd)])),'' ''), ''TBA'') AS DepartmentName1
       FROM groupnUploadfile.CoursesSpring2017'
   EXEC (@SQL)
   DECLARE @SQL2 AS NVARCHAR (MAX)
   SET @SQL2='CREATE OR ALTER VIEW G10 4.uvw Instructor Temp2 AS
        SELECT DISTINCT
           COALESCE (NULLIF (InstructorLastName1, '' ''), ''TBA'') AS InstructorLast-
Name2,
           COALESCE (NULLIF (InstructorFirstName1,'' ''), ''TBA'') AS InstructorFirst-
Name2.
           COALESCE (NULLIF (InstructorFullName1, '' ''), ''TBA'') AS InstructorFull-
Name2,
           COALESCE (NULLIF (DepartmentName1, '' ''), ''TBA'') AS DepartmentName2
       FROM G10 4.uvw Instructor Temp1'
   EXEC (@SQL2)
   DECLARE @SQL3 AS NVARCHAR (MAX)
   SET @SQL3='CREATE OR ALTER VIEW G10 4.uvw Instructor Temp3 AS
        SELECT DISTINCT DepartmentName2, ROW NUMBER() OVER(ORDER BY DepartmentName2) AS
DepartmentKey
       FROM G10 4.uvw Instructor Temp2
       GROUP BY DepartmentName2'
   EXEC (@SQL3)
   DECLARE @SQL4 AS NVARCHAR (MAX)
   SET @SQL4 = 'CREATE OR ALTER VIEW G10 4.uvw Instructor AS
        SELECT a.InstructorLastName2 as InstructorLastName,
           a.InstructorFirstName2 as InstructorFirstName,
           a.InstructorFullName2 as InstructorFullName,
           a.DepartmentName2 as DepartmentName,
            b.DepartmentKey as DepartmentKey
        FROM G10_4.uvw_Instructor_Temp2 as a
        INNER JOIN G10 4.uvw Instructor Temp3 as b
        on a.DepartmentName2 = b.DepartmentName2'
   EXEC (@SQL4)
   INSERT INTO Department.Instructor (InstructorFirstName, InstructorLastName,
InstructorFullName, DepartmentName, DepartmentKey, UserAuthorizationKey, DateAdded,
   SELECT InstructorFirstName, InstructorLastName, InstructorFullName, DepartmentName,
DepartmentKey, @UserAuthorizationKey, @DateAdded, @DateOfLastUpdate
   FROM G10 4.uvw Instructor;
   DECLARE @EndingDateTime [Udt].[Dateof];
   SET @EndingDateTime = SYSDATETIME();
```

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Programmability > Stored Procedures > Project3.Load\_Instructor

#### Uses

[Department].[Instructor]
[G10\_4].[uvw\_Instructor]
[Process].[usp\_TrackWorkFlow]
[Udt].[DateOf]
[Udt].[SurrogateKeyInt]
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	SurrogateKeyInt	4

#### **SQL Script**

```
-- Author: <Erik Kim>
-- Create date: <12/1/2020>
-- Description: <Load Data Into ModeOfInstruction>
CREATE PROCEDURE [Project3]. [Load ModeOfInstruction] @UserAuthorizationKey
[Udt].[SurrogateKeyInt]
BEGIN
   SET NOCOUNT ON;
   DECLARE @DateAdded [Udt].[DateOf];
   SET @DateAdded = SYSDATETIME();
   DECLARE @DateOfLastUpdate [Udt].[DateOf];
   SET @DateOfLastUpdate = SYSDATETIME();
   DECLARE @StartingDateTime [Udt].[DateOf];
   SET @StartingDateTime = SYSDATETIME();
   DECLARE @SQL AS NVARCHAR (MAX)
   SET @SQL='CREATE OR ALTER VIEW G10_4.uvw_ModeOfInstruction AS SELECT DISTINCT
COALESCE (NULLIF([Mode of Instruction], "'''), "'TBA'') AS ModeOfInstruction FROM groupn-
Uploadfile.CoursesSpring2017; '
   EXEC (@SQL)
   INSERT INTO Course.ModeOfInstruction (ModeOfInstruction, UserAuthorizationKey, Date-
Added, DateOfLastUpdate)
   SELECT a.ModeOfInstruction, @UserAuthorizationKey, @DateAdded, @DateOfLastUpdate
   FROM G10 4.uvw ModeOfInstruction AS a;
   DECLARE @EndingDateTime [Udt].[DateOf];
```

#### Uses

[Course].[ModeofInstruction]
[G10\_4].[uvw\_ModeOfInstruction]
[Process].[usp\_TrackWorkFlow]
[Udt].[DateOf]
[Udt].[SurrogateKeyInt]
Project3

**Used By** 

[Project3].[LoadData]

### [Project3].[Load\_RoomLocation]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
CREATE PROCEDURE [Project3].[Load RoomLocation]
    @UserAuthorizationKey [Udt].[SurrogateKeyInt]
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @DateAdded [Udt].[DateOf];
   SET @DateAdded = SYSDATETIME();
    DECLARE @DateOfLastUpdate [Udt].[DateOf];
   SET @DateOfLastUpdate = SYSDATETIME();
   DECLARE @StartingDateTime [Udt].[DateOf];
    SET @StartingDateTime = SYSDATETIME();
    DECLARE @SQL AS NVARCHAR (MAX)
SET @SQL='CREATE OR ALTER VIEW G10_4.uvw_RoomLocation AS SELECT DISTINCT
COALESCE(NULLIF([Location],'' ''), ''AA TBA'') AS RoomLocation FROM groupn-
Uploadfile.CoursesSpring2017;'
    EXEC (@SQL)
   DECLARE @SQL2 AS NVARCHAR (MAX)
    SET @SQL2='CREATE OR ALTER VIEW G10_4.uvw_BuildingRoomNumber AS
    SELECT SUBSTRING([RoomLocation], 3, 100) AS RoomNumber
    FROM G10 4.uvw RoomLocation;'
    EXEC (@SQL2)
INSERT INTO [Location].[RoomLocation]
(RoomLocation, UserAuthorizationKey, DateAdded, DateOfLastUpdate)
```

```
SELECT CS.RoomNumber, @UserAuthorizationKey, @DateAdded, @DateOfLastUpdate
FROM G10_4.uvw_BuildingRoomNumber AS CS;
   DECLARE @EndingDateTime DATETIME2;
   SET @EndingDateTime = SYSDATETIME();
   DECLARE @WorkFlowStepTableRowCount INT;
   SET @WorkFlowStepTableRowCount =
       SELECT COUNT(*) FROM [Location].[RoomLocation]
   );
   EXEC [Process].[usp TrackWorkFlow] 'Loads data into [Project3].[RoomLocation]',
                                       @WorkFlowStepTableRowCount,
                                       @StartingDateTime,
                                       @EndingDateTime,
                                       @UserAuthorizationKey;
SELECT *
FROM [Location].[RoomLocation];
END;
GO
```

#### Uses

[Location].[RoomLocation]
[G10\_4].[uvw\_BuildingRoomNumber]
[Process].[usp\_TrackWorkFlow]
[Udt].[DateOf]
[Udt].[SurrogateKeyInt]
Project3

**Used By** 

[Project3].[LoadData]

# [Project3].[LoadData]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
-- Author: <Erik Kim>
-- Create date: <12/7/2020>
-- Description: <Load Data>
CREATE PROCEDURE [Project3].[LoadData] @UserAuthorizationKey INT
AS
BEGIN
   SET NOCOUNT ON;
       DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
       Drop All of the foreign keys prior to truncating tables
   EXEC [Project3].[DropForeignKeys] @UserAuthorizationKey = 1;
   -- Check row count before truncation
   EXEC [Project3].[ShowTableStatusRowCount]
      @UserAuthorizationKey = 1, -- Change -1 to the appropriate UserAuthorization-
Key
       @TableStatus = N'''Pre-truncate of tables'''
       Always truncate the data
   EXEC [Project3].[TruncateData] @UserAuthorizationKey = 1;
        Load the schema
   EXEC [Project3].[Load_ModeOfInstruction] @UserAuthorizationKey = 1; -- Change -1
to the appropriate UserAuthorizationKey
```

```
EXEC [Project3].[Load Course] @UserAuthorizationKey = 6; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load Class] @UserAuthorizationKey = 5; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load Department] @UserAuthorizationKey = 2; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load_Instructor] @UserAuthorizationKey = 4; -- Change -1 to the
appropriate UserAuthorizationKey
   EXEC [Project3].[Load_RoomLocation] @UserAuthorizationKey = 3; -- Change -1 to
the appropriate UserAuthorizationKey
   EXEC [Project3].[Load_BuildingLocation] @UserAuthorizationKey = 7; -- 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 UserAuthorization-
Kev
       @TableStatus = N'''Row Count after loading'''
  EXEC [Project3].[AddForeignKeys] @UserAuthorizationKey = 1; -- Change -1 to the
appropriate UserAuthorizationKey
   DECLARE @WorkFlowStepTableRowCount INT;
   SET @WorkFlowStepTableRowCount = 0;
   DECLARE @EndingDateTime DATETIME2 = SYSDATETIME();
   EXEC [Process].[usp TrackWorkFlow] 'Load Data',
                                      @WorkFlowStepTableRowCount,
                                      @StartingDateTime,
                                      @EndingDateTime,
                                      @UserAuthorizationKey;
END:
GO
```

#### Uses

```
[Process].[usp_TrackWorkFlow]
[Project3].[AddForeignKeys]
[Project3].[DropForeignKeys]
[Project3].[Load_BuildingLocation]
[Project3].[Load_Class]
[Project3].[Load_Course]
[Project3].[Load_Department]
[Project3].[Load_Instructor]
[Project3].[Load_ModeOfInstruction]
[Project3].[Load_RoomLocation]
[Project3].[ShowTableStatusRowCount]
[Project3].[TruncateData]
Project3
```

# [Project3].[ShowTableStatusRowCount]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

### **SQL Script**

```
-- Author: <Author,,Name>
-- Create date: <Create Date,,>
-- Description: <Description,,>
CREATE PROCEDURE [Project3].[ShowTableStatusRowCount] @TableStatus VARCHAR(64), @User-
AuthorizationKey INT
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   DECLARE @DateAdded DATETIME2;
   SET @DateAdded = SYSDATETIME();
   DECLARE @DateOfLastUpdate DATETIME2;
   SET @DateOfLastUpdate = SYSDATETIME();
   DECLARE @StartingDateTime DATETIME2;
   SET @StartingDateTime = SYSDATETIME();
   DECLARE @EndingDateTime DATETIME2;
   DECLARE @WorkFlowStepTableRowCount INT;
   SET @WorkFlowStepTableRowCount = 0;
   SELECT TableStatus = @TableStatus,
        TableName = 'Course.Class',
```

```
[Row Count] = COUNT(*)
   FROM Course.Class
   UNION ALL
   SELECT TableStatus = @TableStatus,
          TableName = 'Course.Course',
           [Row Count] = COUNT(*)
   FROM Course.Course
   UNTON ALT.
   SELECT TableStatus = @TableStatus,
          TableName = 'Department.Instructor',
           [Row Count] = COUNT(*)
   FROM Department.Instructor
   UNION ALL
   SELECT TableStatus = @TableStatus,
          TableName = 'Course.ModeofInstruction',
          [Row Count] = COUNT(*)
   FROM Course.ModeOfInstruction
   UNION ALL
   SELECT TableStatus = @TableStatus,
          TableName = 'Department.Department',
           [Row Count] = COUNT(*)
   FROM Department.Department
   UNION ALL
   SELECT TableStatus = @TableStatus,
          TableName = 'Location.BuildingLocation',
          [Row Count] = COUNT(*)
   FROM [Location].BuildingLocation
   UNION ALL
   SELECT TableStatus = @TableStatus,
         TableName = 'Location.RoomLocation',
          [Row Count] = COUNT(*)
   FROM [Location].RoomLocation
   UNION ALL
   SELECT TableStatus = @TableStatus,
           TableName = 'DbSecurity.UserAuthorization',
           [Row Count] = COUNT(*)
   FROM [DbSecurity]. UserAuthorization
   UNTON ALL
   SELECT TableStatus = @TableStatus,
          TableName = 'Process.WorkflowSteps',
           [Row Count] = COUNT(*)
   FROM [Process].WorkflowSteps;
   SET @EndingDateTime = SYSDATETIME();
   EXEC [Process].[usp TrackWorkFlow] 'Procedure: [Project3].[ShowStatusRowCount]
loads data into [Project3].[ShowTableStatusRowCount]',
                                       @WorkFlowStepTableRowCount,
                                       @StartingDateTime,
                                       @EndingDateTime,
                                       @UserAuthorizationKey;
```

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Programmability > Stored Procedures > Project3.ShowTableStatusRowCount

END; GO

#### Uses

[Course].[Class]

[Course].[Course]

[Course].[ModeofInstruction]

[DbSecurity].[UserAuthorization]

[Department].[Department]

[Department].[Instructor]

[Location].[BuildingLocation]

[Location].[RoomLocation]

[Process].[WorkflowSteps]

[Process].[usp\_TrackWorkFlow]

Project3

### **Used By**

[Project3].[LoadData]

# [Project3].[TruncateData]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
-- Author: <Erik Kim>
-- Create date: <12/7/2020>
-- Description: <Truncate data>
CREATE PROCEDURE [Project3].[TruncateData]
   @UserAuthorizationKey int
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   DECLARE @StartingDateTime DATETIME2 = SYSDATETIME();
   TRUNCATE TABLE Course.Class;
   TRUNCATE TABLE Course.Course;
   TRUNCATE TABLE Department.Instructor;
   TRUNCATE TABLE Course.ModeOfInstruction;
   TRUNCATE TABLE Department.Department;
   TRUNCATE TABLE [Location].BuildingLocation;
   TRUNCATE TABLE [Location].RoomLocation;
   DECLARE @WorkFlowStepTableRowCount INT;
   SET @WorkFlowStepTableRowCount = 0;
   DECLARE @EndingDateTime DATETIME2 = SYSDATETIME();
   EXEC [Process].[usp_TrackWorkFlow] 'Truncate Data',
                                      @WorkFlowStepTableRowCount,
                                      @StartingDateTime,
                                      @EndingDateTime,
```

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Programmability > Stored Procedures > Project3.TruncateData

@UserAuthorizationKey;
end
GO

#### Uses

[Course].[Class]

[Course].[Course]

[Course].[ModeofInstruction]

[Department].[Department]

[Department].[Instructor]

[Location].[BuildingLocation]

[Location].[RoomLocation]

[Process].[usp\_TrackWorkFlow]

Project3

### **Used By**

[Project3].[LoadData]

# iii User-Defined Data Types

### Objects

Name
Udt.BuildingLocation
Udt.ClassTime
Udt.Count
Udt.CourseCode
Udt.CourseDesc
Udt.CourseName
Udt.DateOf
Udt.DayOfWeek
Udt.DepartmentName
Udt.Description
Udt.IndividualProject
Udt.IntValue
Udt.Location
Udt.ModeOfInstruction
Udt.Name
Udt.RoomLocation
Udt.Section
Udt.SurrogateKeyInt

# [Udt].[BuildingLocation]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[BuildingLocation] FROM nvarchar (50) NOT NULL
GO

Uses

Udt

# [Udt].[ClassTime]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[ClassTime] FROM nvarchar (50) NULL
GO

Uses

Udt

Used By

[DbSecurity].[UserAuthorization] [Process].[WorkflowSteps]

# " [Udt].[Count]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	int
Length	4

### **SQL Script**

CREATE TYPE [Udt].[Count] FROM int NULL
GO

#### Uses

Udt

### Used By

[Course].[Class]

[Process]. [WorkflowSteps]

[Process].[usp\_TrackWorkFlow]

# [Udt].[CourseCode]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	varchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[CourseCode] FROM varchar (50) NULL
GO

Uses

Udt

**Used By** 

[Course].[Class]

# [Udt].[CourseDesc]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	varchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[CourseDesc] FROM varchar (50) NULL
GO

Uses

Udt

**Used By** 

[Course].[Class]
[Course].[Course]
[G10\_4].[uvw\_Class]

# [Udt].[CourseName]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	varchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[CourseName] FROM varchar (50) NULL
GO

Uses

Udt

Used By

[Course].[Class] [Course].[Course]

### [Udt].[DateOf]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	datetime2
Length	8

#### **SQL Script**

CREATE TYPE [Udt].[DateOf] FROM datetime2 NOT NULL
GO

#### Uses

Udt

### Used By

[Course].[Class]

[Course].[Course]

[Course].[ModeofInstruction]

[DbSecurity].[UserAuthorization]

[Department].[Department]

[Department].[Instructor]

[Location].[BuildingLocation]

[Location].[RoomLocation]

[Process].[WorkflowSteps]

[Process].[usp\_TrackWorkFlow]

[Project3].[Load\_BuildingLocation]

[Project3].[Load\_Class]

[Project3].[Load\_Course]

[Project3].[Load\_Department]

[Project3].[Load Instructor]

[Project3].[Load\_ModeOfInstruction]

 $[Project 3]. [Load\_RoomLocation] \\$ 

# [Udt].[DayOfWeek]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[DayOfWeek] FROM nvarchar (50) NOT NULL
GO

Uses

Udt

**Used By** 

[Course].[Class]

# [Udt].[DepartmentName]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[DepartmentName] FROM nvarchar (50) NULL
GO

Uses

Udt

**Used By** 

[Department].[Department] [Department].[Instructor]

# [Udt].[Description]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[Description] FROM nvarchar (50) NOT NULL
GO

Uses

Udt

**Used By** 

[Process].[WorkflowSteps]
[Process].[usp\_TrackWorkFlow]

### [Udt].[IndividualProject]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[IndividualProject] FROM nvarchar (50) NULL
GO

Uses

Udt

**Used By** 

[DbSecurity].[UserAuthorization]

# " [Udt].[IntValue]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[IntValue] FROM nvarchar (50) NULL
GO

Uses

Udt

**Used By** 

[Course].[Class]

# [Udt].[Location]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[Location] FROM nvarchar (50) NULL
GO

Uses

Udt

**Used By** 

[Location].[BuildingLocation]

### [Udt].[ModeOfInstruction]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[ModeOfInstruction] FROM nvarchar (50) NOT NULL
GO

Uses

Udt

**Used By** 

[Course].[Class]

[Course].[ModeofInstruction]

# " [Udt].[Name]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[Name] FROM nvarchar (50) NULL
GO

#### Uses

Udt

### **Used By**

[Course].[Class]
[DbSecurity].[UserAuthorization]
[Department].[Instructor]

### [Udt].[RoomLocation]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[RoomLocation] FROM nvarchar (50) NOT NULL
GO

Uses

Udt

**Used By** 

[Location].[RoomLocation]
[G10\_4].[uvw\_BuildingLocation4]

# iii [Udt].[Section]

### **Properties**

Property	Value
Nullability	NULL allowed
Base Type Name	varchar
Length	50

### **SQL Script**

CREATE TYPE [Udt].[Section] FROM varchar (50) NULL
GO

Uses

Udt

**Used By** 

[Course].[Class]

### [Udt].[SurrogateKeyInt]

### **Properties**

Property	Value
Nullability	NOT NULL
Base Type Name	int
Length	4

#### **SQL Script**

CREATE TYPE [Udt].[SurrogateKeyInt] FROM int NOT NULL
GO

#### Uses

Udt

### Used By

[Course].[Class]

[Course].[Course]

[Course].[ModeofInstruction]

[DbSecurity].[UserAuthorization]

[Department].[Department]

[Department].[Instructor]

[Location].[BuildingLocation]

[Location].[RoomLocation]

[Process].[WorkflowSteps]

[G10\_4].[uvw\_BuildingLocation4]

[G10\_4].[uvw\_Class]

[Process].[usp\_TrackWorkFlow]

[Project3].[Load\_BuildingLocation]

[Project3].[Load Class]

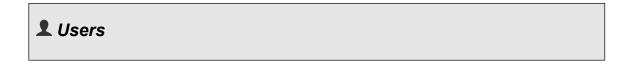
[Project3].[Load Course]

[Project3].[Load\_Department]

[Project3].[Load\_Instructor]

[Project3].[Load\_ModeOfInstruction]

[Project3].[Load\_RoomLocation]



Objects

Name	
dbo	
guest	



### **Properties**

Property	Value
Туре	SqlUser
Login Name	sa
Default Schema	dbo

### **Database Level Permissions**

Туре	Action
CONNECT	Grant

### **SQL Script**

GO



### **Properties**

Property	Value
Туре	SqlUser
Default Schema	guest

### **SQL Script**

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

### db\_datawriter

### **Properties**

Property	Value
Owner	dbo

### db\_ddladmin

### **Properties**

Property	Value
Owner	dbo

### db\_denydatareader

### **Properties**

Property	Value
Owner	dbo

### db\_denydatawriter

### **Properties**

Property	Value
Owner	dbo

### db\_owner

### **Properties**

Property	Value
Owner	dbo

### db\_securityadmin

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Security > Roles > Database Roles > db\_securityadmin

# **Properties**

Property	Value
Owner	dbo

♣•• public

# **Properties**

Property	Value
Owner	dbo

# **△** Schemas

# Objects

Name
Course
DbSecurity
Department
G10_4
groupnDim
groupnFACT
groupnUploadfile
Location
Process
Project3
QC
Udt
Upload
Uploadfile

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Security > Schemas > Course



# **Properties**

Property	Value
Owner	dbo

### **SQL Script**

CREATE SCHEMA [Course]
AUTHORIZATION [dbo]
GO

# **Used By**

[Course].[Class]
[Course].[Course]
[Course].[ModeofInstruction]

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Security > Schemas > Db-Security



# **Properties**

Property	Value
Owner	dbo

### **SQL Script**

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

# **Used By**

[DbSecurity].[UserAuthorization]

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Security > Schemas > Department



# **Properties**

Property	Value
Owner	dbo

### **SQL Script**

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

# **Used By**

[Department].[Department] [Department].[Instructor]

# **△** G10\_4

### **Properties**

Property	Value
Owner	dbo

### **SQL Script**

```
CREATE SCHEMA [G10_4]
AUTHORIZATION [dbo]
GO
```

#### **Used By**

[G10\_4].[uvw\_BuildingLocation1]

[G10\_4].[uvw\_BuildingLocation2]

[G10\_4].[uvw\_BuildingLocation3]

[G10\_4].[uvw\_BuildingLocation4]

[G10\_4].[uvw\_BuildingRoomNumber]

[G10\_4].[uvw\_Class]

[G10\_4].[uvw\_Course]

[G10\_4].[uvw\_Course1]

[G10\_4].[uvw\_Department]

[G10\_4].[uvw\_Department1]

[G10\_4].[uvw\_Instructor]

[G10\_4].[uvw\_Instructor\_Temp1]

[G10\_4].[uvw\_Instructor\_Temp2]

[G10\_4].[uvw\_Instructor\_Temp3]

[G10\_4].[uvw\_ModeOfInstruction]

[G10\_4].[uvw\_RoomLocation]

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Security > Schemas > groupnDim



# **Properties**

Property	Value
Owner	dbo

### **SQL Script**

CREATE SCHEMA [groupnDim]
AUTHORIZATION [dbo]
GO

 $\label{localhost} Project > localhost, 12001 > User \ databases > Queens Class Schedule Current Semester > Security > Schemas > groupn FACT$ 



# **Properties**

Property	Value
Owner	dbo

### **SQL Script**

CREATE SCHEMA [groupnFACT]
AUTHORIZATION [dbo]
GO

 $\label{local-project} Project > localhost, 12001 > User \ databases > Queens Class Schedule Current Semester > Security > Schemas > groupn Upload file$ 



# **Properties**

Property	Value
Owner	dbo

### **SQL Script**

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

# **Used By**

[groupnUploadfile].[CoursesSpring2017]

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Security > Schemas > Location

# **△** Location

# **Properties**

Property	Value
Owner	dbo

### **SQL Script**

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

# **Used By**

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

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Security > Schemas > Process



# **Properties**

Property	Value
Owner	dbo

### **SQL Script**

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

# **Used By**

[Process].[WorkflowSteps]
[Process].[usp\_ShowWorkflowSteps]
[Process].[usp\_TrackWorkFlow]

# ♣ Project3

### **Properties**

Property	Value
Owner	dbo

### **SQL Script**

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

#### **Used By**

[Project3].[AddForeignKeys]

[Project3].[DropForeignKeys]

[Project3].[Load\_BuildingLocation]

[Project3].[Load\_Class]

[Project3].[Load\_Course]

[Project3].[Load\_Department]

[Project3].[Load\_Instructor]

[Project3].[Load\_ModeOfInstruction]

[Project3].[Load\_RoomLocation]

[Project3].[LoadData]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]



# **Properties**

Property	Value
Owner	dbo

# SQL Script

CREATE SCHEMA [QC]
AUTHORIZATION [dbo]
GO

# 

### **Properties**

Property	Value
Owner	dbo

### **SQL Script**

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

### **Used By**

[Udt].[BuildingLocation]

[Udt].[ClassTime]

[Udt].[Count]

[Udt].[CourseCode]

[Udt].[CourseDesc]

[Udt].[CourseName]

[Udt].[DateOf]

[Udt].[DayOfWeek]

[Udt].[DepartmentName]

[Udt].[Description]

[Udt].[IndividualProject]

[Udt].[IntValue]

[Udt].[Location]

[Udt].[ModeOfInstruction]

[Udt].[Name]

[Udt].[RoomLocation]

[Udt].[Section]

[Udt].[SurrogateKeyInt]

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Security > Schemas > Upload



# **Properties**

Property	Value
Owner	dbo

### **SQL Script**

CREATE SCHEMA [Upload]
AUTHORIZATION [dbo]
GO

Project > localhost,12001 > User databases > QueensClassScheduleCurrentSemester > Security > Schemas > Uploadfile



# **Properties**

Property	Value
Owner	dbo

### **SQL Script**

CREATE SCHEMA [Uploadfile]
AUTHORIZATION [dbo]
GO