localhost,12001

QueensClassScheduleFall2020

Server localhost,12001

Author iamin

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■ localhost,12001

Databases (1)

• ■ QueensClassScheduleFall2020

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	20408
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

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	User	data	bases

Databases (1)

• QueensClassScheduleFall2020

☐ QueensClassScheduleFall2020 Database

Database Properties

Property	Value
SQL Server Version	Max
Compatibility Level	SQL Server 2016
Last backup time	12/13/2020
Last log backup time	-
Creation date	Nov 29 2020
Users	5
Database Encryption Enabled	False
Database Encryption Algorithm	None
Database size	208.00 MB
Unallocated space	63.09 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	4cee5a59-a058-4dd2-8c87-e1895a203c89
Service broker enabled	False
Log reuse wait	LOG_BACKUP
Date correlation	False
CDC enabled	False
Encrypted	False
Honor broker priority	False
Default language	English
Default fulltext language LCID	1033
Nested triggers enabled	True
Transform noise words	False
Two-digit year cutoff	2049
Containment	NONE
Target recovery time	60
Database owner	sa

Files

Name	Туре	Size	Maxsize	Autogrowth	File Name
QueensClassSchedule	Data	72.00 MB	unlimited	64.00 MB	/var/opt/mssql/data/Queen sClassSchedule.mdf
QueensClassSchedule_log	Log	136.00 MB	2048.00 GB	64.00 MB	/var/opt/mssql/log/Queens- ClassSchedule_log.ldf

■ Tables

Objects

Name
Academics.BridgeBetweenCourseAndModeOfInstruction
Academics.BridgeBetweenDepartmentAndInstructor
Academics.Class
Academics.Course
Academics.Department
Academics.ModeOfInstruction
DbSecurity.UserAuthorization
Faculty.Instructor
groupnUploadfile.CoursesFall2020
Locations.Building
Locations.Room
Process.WorkflowSteps

☐ [Academics].[BridgeBetweenCourseAndModeOfInstruction]

Properties

Property	Value
Неар	True
Row Count (~)	1702
Created	9:22:46 PM Saturday, December 12, 2020
Last Modified	1:02:22 AM Sunday, December 13, 2020

Columns

Key	Name	Name Data Type		Nullability	
FKP	CourseKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	
F 19	ModeOfInstructionKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	
	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	
	DateAdded	[Udt].[DateAdded]	8	NOT NULL	
	DateOfLastUpdate	[Udt].[DateOfLastUpdate]	8	NOT NULL	

Indexes

Name	Key Columns
fkldx_112	CourseKey
fkldx_115	ModeOfInstructionKey

Foreign Keys

Name	Columns
FK_BridgeCM_Course	CourseKey->[Academics].[Course].[CourseKey]
FK_BridgeCM_ModeOfInstruction	ModeOfInstructionKey->[Academics].[ModeOfInstruction].[ModeOfInstruction-Key]

```
CREATE TABLE [Academics].[BridgeBetweenCourseAndModeOfInstruction]
(
[CourseKey] [Udt].[SurrogateKeyInt] NOT NULL,
[ModeOfInstructionKey] [Udt].[SurrogateKeyInt] NOT NULL,
```

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Tables > Academics.Bridge-BetweenCourseAndModeOfInstruction

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

[DateAdded] [Udt].[DateAdded] NOT NULL,

[DateOfLastUpdate] [Udt].[DateOfLastUpdate] NOT NULL

) ON [PRIMARY]

GO

CREATE NONCLUSTERED INDEX [fkIdx_112] ON [Academics].[BridgeBetweenCourseAndModeOf-Instruction] ([CourseKey]) ON [PRIMARY]

GO

CREATE NONCLUSTERED INDEX [fkIdx_115] ON [Academics].[BridgeBetweenCourseAndModeOf-Instruction] ([ModeOfInstructionKey]) ON [PRIMARY]

GO

ALTER TABLE [Academics].[BridgeBetweenCourseAndModeOfInstruction] ADD CONSTRAINT [FK_-BridgeCM_Course] FOREIGN KEY ([CourseKey]) REFERENCES [Academics].[Course] ([Course-Key])

GO

ALTER TABLE [Academics].[BridgeBetweenCourseAndModeOfInstruction] ADD CONSTRAINT [FK_-BridgeCM_ModeOfInstruction] FOREIGN KEY ([ModeOfInstruction] ADD CONSTRAINT [FK_-BridgeCM_ModeOfInstruction] FOREIGN KEY ([ModeOfInstructionKey]) REFERENCES
[Academics].[ModeOfInstruction] ([ModeOfInstructionKey])

GO
```

Uses

[Academics].[Course]
[Academics].[ModeOfInstruction]
[Udt].[DateAdded]
[Udt].[DateOfLastUpdate]
[Udt].[SurrogateKeyInt]
Academics

Used By

[Project3].[Load_BridgeCourseMode] [Project3].[ShowTableStatusRowCount] [Project3].[TruncateData]

[Academics].[BridgeBetweenDepartmentAndInstructor]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Неар	True
Row Count (~)	3370
Created	9:22:32 PM Saturday, December 12, 2020
Last Modified	1:02:22 AM Sunday, December 13, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
F 1	DepartmentKey	[Udt].[SurrogateKeyInt]	4	NOT NULL
F 1	InstructorKey	[Udt].[SurrogateKeyInt]	4	NOT NULL
	CourseFullInfo	[Udt].[CourseFullInfo]	100	NOT NULL
	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL
	DateAdded	[Udt].[DateAdded]	8	NOT NULL
	DateOfLastUpdate	[Udt].[DateOfLastUpdate]	8	NOT NULL

Indexes

Name	Key Columns
fkldx_105	DepartmentKey
fkldx_108	InstructorKey

Foreign Keys

Name	Columns			
FK_BridgeDI_Department	DepartmentKey->[Academics].[Department].[DepartmentKey]			
FK_BridgeDI_Instructor	InstructorKey->[Faculty].[Instructor].[InstructorKey]			

SQL Script

CREATE TABLE [Academics].[BridgeBetweenDepartmentAndInstructor]
(

```
[DepartmentKey] [Udt].[SurrogateKeyInt] NOT NULL,
[InstructorKey] [Udt].[SurrogateKeyInt] NOT NULL,
[CourseFullInfo] [Udt].[CourseFullInfo] NOT NULL,
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateAdded] NOT NULL,
[DateOfLastUpdate] [Udt].[DateOfLastUpdate] NOT NULL
ON [PRIMARY]
GO
CREATE NONCLUSTERED INDEX [fkldx 105] ON [Academics].[BridgeBetweenDepartmentAnd-
Instructor] ([DepartmentKey]) ON [PRIMARY]
CREATE NONCLUSTERED INDEX [fkldx 108] ON [Academics].[BridgeBetweenDepartmentAnd-
Instructor] ([InstructorKey]) ON [PRIMARY]
ALTER TABLE [Academics].[BridgeBetweenDepartmentAndInstructor] ADD CONSTRAINT [FK -
BridgeDI Department] FOREIGN KEY ([DepartmentKey]) REFERENCES [Academics].[Department]
([DepartmentKey])
ALTER TABLE [Academics].[BridgeBetweenDepartmentAndInstructor] ADD CONSTRAINT [FK -
BridgeDI Instructor] FOREIGN KEY ([InstructorKey]) REFERENCES [Faculty].[Instructor]
([InstructorKey])
```

Uses

[Academics].[Department] [Faculty].[Instructor]

[Udt].[CourseFullInfo]

[Udt].[DateAdded]

[Udt].[DateOfLastUpdate]

[Udt].[SurrogateKeyInt]

Academics

Used By

[Project3].[Load_BridgeCourseMode]
[Project3].[Load_BridgeDepartmentInstructor]
[Project3].[ShowTableStatusRowCount]
[Project3].[TruncateData]

III [Academics].[Class]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	4187
Created	5:38:36 PM Saturday, December 12, 2020
Last Modified	1:02:24 AM Sunday, December 13, 2020

Columns

Key	Name	Data Type	Persis ted	Comp uted	Max Lengt h (Bytes	Nullab ility	ldentit y	Defaul t
	Semester	[Udt].[Semester]			60	NOT NULL		
PK <mark>P</mark> C	ClassKey	[Udt].[SurrogateKey- Int]			4	NOT NULL	1 - 1	
.	ClassSection	[Udt].[ClassSection]			80	NOT NULL		
 (2)	ClassCode	[Udt].[ClassCodeInt]			4	NULL allowe d		
F	CourseKey	[Udt].[SurrogateKey- Int]			4	NOT NULL		
F/P	InstructorKey	[Udt].[SurrogateKey- Int]			4	NULL allowe d		
F/P	BuildingKey	[Udt].[SurrogateKey- Int]			4	NULL allowe d		
F/P	RoomKey	[Udt].[SurrogateKey- Int]			4	NULL allowe d		
F/P	ModeOfInstructionKey	[Udt].[SurrogateKey- Int]			4	NOT NULL		
	ClassDay	[Udt].[ClassDay]			80	NOT NULL		
	ClassTime	[Udt].[ClassDay]			80	NOT NULL		
	InstructorFullName	[Udt].[FullName]			120	NULL allowe d		('Instru ctor To Be Deter mined')

FullLocation	[Udt].[FullLocation]			100	NOT NULL	('Locat ion To Be Deter mined')
Enrolled	[Udt].[EnrolledInt]			4	NOT NULL	
Limit	[Udt].[EnrolledLimit- Int]			4	NOT NULL	
Overtally	int	True	True	4	NOT NULL	
UserAuthorizationKey	[Udt].[SurrogateKey- Int]			4	NOT NULL	
DateAdded	[Udt].[DateAdded]			8	NOT NULL	
DateOfLastUpdate	[Udt].[DateOfLast- Update]			8	NOT NULL	

Computed columns

Name	Column definition
Overtally	(case when [Enrolled]>[Limit] then [Enrolled]-[Limit] else (0) end)

Indexes

Key	Name	Key Columns	Unique
PK G	PK_class	ClassKey	True
	Unique_ClassCode	ClassCode	True
	Unique_Columns	ClassCode, ClassSection	True

Foreign Keys

Name	Columns
FK_Class_Building	BuildingKey->[Locations].[Building].[BuildingKey]
FK_Class_Course	CourseKey->[Academics].[Course].[CourseKey]
FK_Class_Instructor	InstructorKey->[Faculty].[Instructor].[InstructorKey]
FK_Class_ModeOfInstruction	ModeOfInstructionKey->[Academics].[ModeOfInstruction].[ModeOfInstructionKey]
FK_Class_Room	RoomKey->[Locations].[Room].[RoomKey]

```
CREATE TABLE [Academics].[Class]
(
[Semester] [Udt].[Semester] NOT NULL,
```

```
[ClassKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[ClassSection] [Udt].[ClassSection] NOT NULL,
[ClassCode] [Udt].[ClassCodeInt] NULL,
[CourseKey] [Udt].[SurrogateKeyInt] NOT NULL,
[InstructorKey] [Udt].[SurrogateKeyInt] NULL,
[BuildingKey] [Udt].[SurrogateKeyInt] NULL,
[RoomKey] [Udt].[SurrogateKeyInt] NULL,
[ModeOfInstructionKey] [Udt].[SurrogateKeyInt] NOT NULL,
[ClassDay] [Udt].[ClassDay] NOT NULL,
[ClassTime] [Udt].[ClassDay] NOT NULL,
[InstructorFullName] [Udt].[FullName] NULL CONSTRAINT [DF Class Instructo 04459E07]
DEFAULT ('Instructor To Be Determined'),
[FullLocation] [Udt].[FullLocation] NOT NULL CONSTRAINT [DF Class Full-
Locat 0539C240] DEFAULT ('Location To Be Determined'),
[Enrolled] [Udt].[EnrolledInt] NOT NULL,
[Limit] [Udt].[EnrolledLimitInt] NOT NULL,
[Overtally] AS (case when [Enrolled]>[Limit] then [Enrolled]-[Limit] else (0) end)
PERSISTED NOT NULL,
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateAdded] NOT NULL,
[DateOfLastUpdate] [Udt].[DateOfLastUpdate] NOT NULL
) ON [PRIMARY]
ALTER TABLE [Academics].[Class] ADD CONSTRAINT [PK class] PRIMARY KEY CLUSTERED
([ClassKey]) ON [PRIMARY]
GO
ALTER TABLE [Academics].[Class] ADD CONSTRAINT [Unique ClassCode] UNIQUE NONCLUSTERED
([ClassCode]) ON [PRIMARY]
ALTER TABLE [Academics].[Class] ADD CONSTRAINT [Unique Columns] UNIQUE NONCLUSTERED
([ClassCode], [ClassSection]) ON [PRIMARY]
ALTER TABLE [Academics].[Class] ADD CONSTRAINT [FK Class Building] FOREIGN KEY
([BuildingKey]) REFERENCES [Locations].[Building] ([BuildingKey])
ALTER TABLE [Academics].[Class] ADD CONSTRAINT [FK Class Course] FOREIGN KEY ([Course-
Key]) REFERENCES [Academics].[Course] ([CourseKey])
ALTER TABLE [Academics].[Class] ADD CONSTRAINT [FK Class Instructor] FOREIGN KEY
([InstructorKey]) REFERENCES [Faculty].[Instructor] ([InstructorKey])
ALTER TABLE [Academics].[Class] ADD CONSTRAINT [FK Class ModeOfInstruction] FOREIGN KEY
([ModeOfInstructionKey]) REFERENCES [Academics].[ModeOfInstruction] ([ModeOfInstruction-
Key])
GO
ALTER TABLE [Academics].[Class] ADD CONSTRAINT [FK Class Room] FOREIGN KEY ([RoomKey])
REFERENCES [Locations].[Room] ([RoomKey])
GΩ
```

Uses

[Academics].[Course]
[Academics].[ModeOfInstruction]
[Faculty].[Instructor]

[Locations].[Building]

[Locations].[Room]

[Udt].[ClassCodeInt]

[Udt].[ClassDay]

[Udt].[ClassSection]

[Udt].[DateAdded]

[Udt].[DateOfLastUpdate]

[Udt].[EnrolledInt]

[Udt].[EnrolledLimitInt]

[Udt].[FullLocation]

[Udt].[FullName]

[Udt].[Semester]

[Udt].[SurrogateKeyInt]

Academics

Used By

[Project3].[Load_Class]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

[G10_2].[udf_GetBridgeCourseMode]

[G10_2].[udf_GetBridgeDepartmentInstructor]

■ [Academics].[Course]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	1627
Created	12:27:03 AM Saturday, December 12, 2020
Last Modified	1:02:24 AM Sunday, December 13, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity
PK C	CourseKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1
<u></u>	DepartmentKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	
	CourseCode	[Udt].[CourseCode]	20	NOT NULL	
	CourseDescription	[Udt].[Description]	100	NOT NULL	
	CourseFullInfo	[Udt].[CourseFullInfo]	100	NOT NULL	
	CourseHours	[Udt].[CourseHoursInt]	5	NOT NULL	
	CourseCredits	[Udt].[CourseCreditsInt]	5	NOT NULL	
	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	
	DateAdded	[Udt].[DateAdded]	8	NOT NULL	
	DateOfLastUpdate	[Udt].[DateOfLastUpdate]	8	NOT NULL	

Indexes

Key	Name	Key Columns	Unique
PK G	PK_course	CourseKey	True
	fkldx_34	DepartmentKey	

Foreign Keys

Name	Columns
FK_Course_Department	DepartmentKey->[Academics].[Department].[DepartmentKey]

SQL Script

```
CREATE TABLE [Academics].[Course]
[CourseKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[DepartmentKey] [Udt].[SurrogateKeyInt] NOT NULL,
[CourseCode] [Udt].[CourseCode] NOT NULL,
[CourseDescription] [Udt].[Description] NOT NULL,
[CourseFullInfo] [Udt].[CourseFullInfo] NOT NULL,
[CourseHours] [Udt].[CourseHoursInt] NOT NULL,
[CourseCredits] [Udt].[CourseCreditsInt] NOT NULL,
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateAdded] NOT NULL,
[DateOfLastUpdate] [Udt].[DateOfLastUpdate] NOT NULL
ON [PRIMARY]
GO
ALTER TABLE [Academics].[Course] ADD CONSTRAINT [PK course] PRIMARY KEY CLUSTERED
([CourseKey]) ON [PRIMARY]
CREATE NONCLUSTERED INDEX [fkldx_34] ON [Academics].[Course] ([DepartmentKey]) ON
[PRIMARY]
ALTER TABLE [Academics].[Course] ADD CONSTRAINT [FK Course Department] FOREIGN KEY
([DepartmentKey]) REFERENCES [Academics].[Department] ([DepartmentKey])
GO
```

Uses

[Academics].[Department]

[Udt].[CourseCode]

[Udt].[CourseCreditsInt]

[Udt].[CourseFullInfo]

[Udt].[CourseHoursInt]

[Udt].[DateAdded]

[Udt].[DateOfLastUpdate]

[Udt].[Description]

[Udt] [SurrogateKeyInt]

Academics

Used By

[Academics].[BridgeBetweenCourseAndModeOfInstruction]

[Academics].[Class]

[Project3].[Load_Course]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

 $[G10_2].[udf_GetBridgeDepartmentInstructor]$

[G10_2].[udf_GetClass]

I [Academics].[Department]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	85
Created	12:27:03 AM Saturday, December 12, 2020
Last Modified	1:02:24 AM Sunday, December 13, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity
PK	DepartmentKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1
.	DepartmentCode	[Udt].[DepartmentCode]	20	NOT NULL	
.	DepartmentName	[Udt].[DepartmentName]	100	NOT NULL	
	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	
	DateAdded	[Udt].[DateAdded]	8	NOT NULL	
	DateOfLastUpdate	[Udt].[DateOfLastUpdate]	8	NOT NULL	

Indexes

Key	Name	Key Columns	Unique
PKP C	PK_department	DepartmentKey	True
	C_DepartmentName	DepartmentName	True
	DeptCodeUnique	DepartmentCode	True

Check Constraints

Name	On Column	Constraint
DeptCodeLength	DepartmentCode	(len([DepartmentCode])>=(2) AND len([DepartmentCode])<=(20))

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

```
[DepartmentCode] [Udt].[DepartmentCode] NOT NULL,
[DepartmentName] [Udt].[DepartmentName] NOT NULL,
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateAdded] NOT NULL,
[DateOfLastUpdate] [Udt].[DateOfLastUpdate] NOT NULL
) ON [PRIMARY]

GO

ALTER TABLE [Academics].[Department] ADD CONSTRAINT [DeptCodeLength] CHECK
((len([DepartmentCode])>=(2) AND len([DepartmentCode])<=(20)))

GO

ALTER TABLE [Academics].[Department] ADD CONSTRAINT [PK_department] PRIMARY KEY
CLUSTERED ([DepartmentKey]) ON [PRIMARY]

GO

ALTER TABLE [Academics].[Department] ADD CONSTRAINT [DeptCodeUnique] UNIQUE
NONCLUSTERED ([DepartmentCode]) ON [PRIMARY]

GO

ALTER TABLE [Academics].[Department] ADD CONSTRAINT [C_DepartmentName] UNIQUE
NONCLUSTERED ([DepartmentName]) ON [PRIMARY]

GO
```

Uses

[Udt].[DateAdded]

[Udt].[DateOfLastUpdate]

[Udt].[DepartmentCode]

[Udt].[DepartmentName]

[Udt].[SurrogateKeyInt]

Academics

Used By

[Academics].[BridgeBetweenDepartmentAndInstructor]

[Academics].[Course]

[Project3].[Load_Course]

[Project3].[Load_Department]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

☐ [Academics].[ModeOfInstruction]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	4
Created	12:27:03 AM Saturday, December 12, 2020
Last Modified	1:02:23 AM Sunday, December 13, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullabil ity	Identity	Default
PK	ModeOfInstructionKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
.	ModeOfInstructionDescription	[Udt].[Description]	100	NOT NULL		
	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL		
	DateAdded	[Udt].[DateAdded]	8	NOT NULL		(sysdate time())
	DateOfLastUpdate	[Udt].[DateOfLastUpdate]	8	NOT NULL		

Indexes

Key	Name	Key Columns	Unique
PK	PK_modeofinstruction	ModeOfInstructionKey	True
	C_MOIKey	ModeOfInstructionDescription	True

```
CREATE TABLE [Academics].[ModeOfInstruction]

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

[ModeOfInstructionDescription] [Udt].[Description] NOT NULL,

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

[DateAdded] [Udt].[DateAdded] NOT NULL CONSTRAINT [DF_ModeOfInstruction_DateAdded]

DEFAULT (sysdatetime()),

[DateOfLastUpdate] [Udt].[DateOfLastUpdate] NOT NULL

) ON [PRIMARY]
```

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```
ALTER TABLE [Academics].[ModeOfInstruction] ADD CONSTRAINT [PK_modeofinstruction]
PRIMARY KEY CLUSTERED ([ModeOfInstructionKey]) ON [PRIMARY]

GO
ALTER TABLE [Academics].[ModeOfInstruction] ADD CONSTRAINT [C_MOIKey] UNIQUE
NONCLUSTERED ([ModeOfInstructionDescription]) ON [PRIMARY]

GO
```

Uses

[Udt].[DateAdded] [Udt].[DateOfLastUpdate] [Udt].[Description] [Udt].[SurrogateKeyInt] Academics

Used By

[Academics].[BridgeBetweenCourseAndModeOfInstruction]
[Academics].[Class]
[Project3].[Load_ModeOfInstruction]
[Project3].[ShowTableStatusRowCount]
[Project3].[TruncateData]
[G10_2].[udf_GetClass]

[DbSecurity].[UserAuthorization]

Properties

Property	Value		
Collation	SQL_Latin1_General_CP1_CI_AS		
Row Count (~)	6		
Created	12:20:16 AM Saturday, December 12, 2020		
Last Modified	12:20:16 AM Saturday, December 12, 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]	80	NULL allowed		('10:45')
	IndividualProject	[Udt].[IndividualProject]	120	NULL allowed		('PROJECT 3 ERD')
	GroupMemberLastName	[Udt].[LastName]	60	NOT NULL		
	GroupMemberFirstName	[Udt].[FirstName]	60	NOT NULL		
	GroupName	[Udt].[GroupName]	40	NULL allowed		('G10_2')
	DateAdded	[Udt].[DateAdded]	8	NULL allowed		(sysdatetim e())

Indexes

Key	lame Key Columns		Unique
PK G	PK_UserAuth0FEC36CB45069BC1	UserAuthorizationKey	True

```
CREATE TABLE [DbSecurity].[UserAuthorization]
(
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[ClassTime] [Udt].[ClassTime] NULL CONSTRAINT [DF_UserAutho_Class_22FF2F51] DEFAULT
('10:45'),
[IndividualProject] [Udt].[IndividualProject] NULL CONSTRAINT [DF_UserAutho_-
Indiv_23F3538A] DEFAULT ('PROJECT 3 ERD'),
```

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Tables > DbSecurity.User-Authorization

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

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

[GroupName] [Udt].[GroupName] NULL CONSTRAINT [DF_UserAutho_Group_24E777C3] DEFAULT ('G10_2'),

[DateAdded] [Udt].[DateAdded] NULL CONSTRAINT [DF_UserAutho_DateA_25DB9BFC] DEFAULT (sysdatetime())

) ON [PRIMARY]

GO

ALTER TABLE [DbSecurity].[UserAuthorization] ADD CONSTRAINT [PK_User-Auth_OFEC36CB45069BC1] PRIMARY KEY CLUSTERED ([UserAuthorizationKey]) ON [PRIMARY]

GO
```

Uses

[Udt].[ClassTime]

[Udt].[DateAdded]

[Udt].[FirstName]

[Udt].[GroupName]

[Udt].[IndividualProject]

[Udt].[LastName]

[Udt].[SurrogateKeyInt]

DbSecurity

■ [Faculty].[Instructor]

Properties

Property	Value
Collation SQL_Latin1_General_CP1_CI_AS	
Row Count (~)	1596
Created	12:05:02 AM Sunday, December 13, 2020
Last Modified	1:02:23 AM Sunday, December 13, 2020

Columns

Key	Name	Data Type	Persist ed	Compu ted	Max Length (Bytes)	Nullabil ity	Identity
PKP C	InstructorKey	[Udt].[SurrogateKeyInt]			4	NOT NULL	1 - 1
	InstructorFirstName	[Udt].[FirstName]			60	NULL allowed	
	InstructorLastName	[Udt].[LastName]			60	NULL allowed	
	InstructorFullName	nvarchar(62)	True	True	124	NOT NULL	
	UserAuthorizationKey	[Udt].[SurrogateKeyInt]			4	NOT NULL	
	DateAdded	[Udt].[DateAdded]			8	NOT NULL	
	DateOfLastUpdate	[Udt].[DateOfLastUpdate]			8	NOT NULL	

Computed columns

Name	Column definition		
InstructorFullName	(concat([InstructorLastName],', ',[InstructorFirstName]))		

Indexes

Key	Name	Key Columns	Unique
PKP C	PK_instructor	InstructorKey	True

Check Constraints

Name	On Column Constraint	
InstructorNames	InstructorFullName	(patindex('%[0-9]%',[InstructorFullName])<=(0))

SQL Script

```
CREATE TABLE [Faculty].[Instructor]

(
[InstructorKey] [Udt].[SurrogateKeyInt] NOT NULL IDENTITY(1, 1),
[InstructorFirstName] [Udt].[FirstName] NULL,
[InstructorLastName] [Udt].[LastName] NULL,
[InstructorFullName] AS (concat([InstructorLastName],', ',[InstructorFirstName]))

PERSISTED NOT NULL,
[UserAuthorizationKey] [Udt].[SurrogateKeyInt] NOT NULL,
[DateAdded] [Udt].[DateAdded] NOT NULL,
[DateOfLastUpdate] [Udt].[DateOfLastUpdate] NOT NULL
) ON [PRIMARY]

GO

ALTER TABLE [Faculty].[Instructor] ADD CONSTRAINT [InstructorNames] CHECK
((patindex('%[0-9]%',[InstructorFullName])<=(0)))

GO

ALTER TABLE [Faculty].[Instructor] ADD CONSTRAINT [PK_instructor] PRIMARY KEY CLUSTERED
([InstructorKey]) ON [PRIMARY]

GO
```

Uses

[Udt].[DateAdded] [Udt].[DateOfLastUpdate] [Udt].[FirstName] [Udt].[LastName]

[Udt].[SurrogateKeyInt]

Faculty

Used By

[Academics].[BridgeBetweenDepartmentAndInstructor]

[Academics].[Class]
[Project3].[Load_Instructor]
[Project3].[ShowTableStatusRowCount]
[Project3].[TruncateData]
[G10_2].[udf_GetClass]

[groupnUploadfile].[CoursesFall2020]

Properties

Property	Value		
Collation	SQL_Latin1_General_CP1_CI_AS		
Неар	True		
Row Count (~)	4522		
Created	5:23:42 PM Saturday, February 18, 2017		
Last Modified	5:07:04 PM Sunday, November 29, 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].[CoursesFall2020]

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

) ON [PRIMARY]
```

GO

Uses

groupnUploadfile

Used By

[Project3].[Load_Course]

[G10_2].[udf_GetBuilding]

[G10_2].[udf_GetClass]

[G10_2].[udf_GetDepartment]

[G10_2].[udf_GetInstructor]

[G10_2].[udf_GetModeOfInstruction]

[G10_2].[udf_GetRoom]

[G10_2].[udf_SeparateCourse]

■ [Locations].[Building]

Properties

Property	Value
Collation SQL_Latin1_General_CP1_CI_AS	
Row Count (~)	23
Created	3:01:19 PM Saturday, December 12, 2020
Last Modified	1:02:24 AM Sunday, December 13, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity
PK C	BuildingKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1
	BuildingCode	[Udt].[BuildingCode]	20	NOT NULL	
	BuildingName	[Udt].[BuildingName]	60	NOT NULL	
	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	
	DateAdded	[Udt].[DateAdded]	8	NOT NULL	
	DateOfLastUpdate	[Udt].[DateOfLastUpdate]	8	NOT NULL	

Indexes

Key	Name	Key Columns	Unique
PK G	PK_buildinglocation	BuildingKey	True

```
CREATE TABLE [Locations].[Building]

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

[BuildingCode] [Udt].[BuildingCode] NOT NULL,

[BuildingName] [Udt].[BuildingName] NOT NULL,

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

[DateAdded] [Udt].[DateAdded] NOT NULL,

[DateOfLastUpdate] [Udt].[DateOfLastUpdate] NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [Locations].[Building] ADD CONSTRAINT [PK_buildinglocation] PRIMARY KEY CLUSTERED ([BuildingKey]) ON [PRIMARY]

GO
```

Uses

[Udt].[BuildingCode]

[Udt].[BuildingName]

[Udt].[DateAdded]

[Udt].[DateOfLastUpdate]

[Udt].[SurrogateKeyInt]

Locations

Used By

[Academics].[Class]

[Locations].[Room]

[Project3].[Load_Building]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

[G10_2].[udf_GetClass]

[G10_2].[udf_GetRoom]

■ [Locations].[Room]

Properties

Property	Value	
Collation SQL_Latin1_General_CP1_CI_AS		
Row Count (~)	318	
Created	12:27:03 AM Saturday, December 12, 2020	
Last Modified	1:02:24 AM Sunday, December 13, 2020	

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity
PKP C	RoomKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1
FK)	BuildingKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	
	RoomNumber	[Udt].[RoomNumber]	60	NOT NULL	
	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	
	DateAdded	[Udt].[DateAdded]	8	NOT NULL	
	DateOfLastUpdate	[Udt].[DateOfLastUpdate]	8	NOT NULL	

Indexes

Key	Name	Key Columns	Unique
PKP C	PK_roomlocation	RoomKey	True
	fkldx_71	BuildingKey	

Foreign Keys

Name	Columns
FK_Room_Building	BuildingKey->[Locations].[Building].[BuildingKey]

```
CREATE TABLE [Locations].[Room]

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

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

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

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

[DateAdded] [Udt].[DateAdded] NOT NULL,

[DateOfLastUpdate] [Udt].[DateOfLastUpdate] NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [Locations].[Room] ADD CONSTRAINT [PK_roomlocation] PRIMARY KEY CLUSTERED ([RoomKey]) ON [PRIMARY]

GO

CREATE NONCLUSTERED INDEX [fkIdx_71] ON [Locations].[Room] ([BuildingKey]) ON [PRIMARY]

GO

ALTER TABLE [Locations].[Room] ADD CONSTRAINT [FK_Room_Building] FOREIGN KEY ([Building-Key]) REFERENCES [Locations].[Building] ([BuildingKey])

GO
```

Uses

[Locations].[Building]
[Udt].[DateAdded]
[Udt].[DateOfLastUpdate]
[Udt].[RoomNumber]
[Udt].[SurrogateKeyInt]

Locations

Used By

[Academics].[Class]
[Project3].[Load_Room]
[Project3].[ShowTableStatusRowCount]
[Project3].[TruncateData]
[G10_2].[udf_GetClass]

Ⅲ [Process].[WorkflowSteps]

Properties

Property	Value
Collation SQL_Latin1_General_CP1_CI_AS	
Row Count (~)	12
Created	12:21:38 AM Saturday, December 12, 2020
Last Modified	12:21:38 AM Saturday, December 12, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullabil ity	Identity	Default
PKP C	WorkFlowStepKey	[Udt].[SurrogateKeyInt]	4	NOT NULL	1 - 1	
	WorkFlowStepDescription	[Udt].[WorkFlowSteps- Description]	200	NOT NULL		
	WorkFlowStepTableRowCount	[Udt].[RowCountInt]	4	NOT NULL		((0))
	StartingDateTime	[Udt].[StartingDateTime]	8	NULL allowed		(sysdat etime())
	EndingDateTime	[Udt].[EndingDateTime]	8	NULL allowed		(sysdat etime())
	ClassTime	[Udt].[ClassTime]	80	NULL allowed		('10:45')
	UserAuthorizationKey	[Udt].[SurrogateKeyInt]	4	NOT NULL		

Indexes

Key	Name	Key Columns	Unique
PKP C	PKWorkflow27726CBF9F81D7BC	WorkFlowStepKey	True

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

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

[WorkFlowStepDescription] [Udt].[WorkFlowStepsDescription] NOT NULL,

[WorkFlowStepTableRowCount] [Udt].[RowCountInt] NOT NULL CONSTRAINT [DF_WorkflowS_-
WorkF_28B808A7] DEFAULT ((0)),

[StartingDateTime] [Udt].[StartingDateTime] NULL CONSTRAINT [DF_WorkflowS_-
```

```
Start__29AC2CE0] DEFAULT (sysdatetime()),

[EndingDateTime] [Udt].[EndingDateTime] NULL CONSTRAINT [DF__WorkflowS__-
Endin__2AA05119] DEFAULT (sysdatetime()),

[ClassTime] [Udt].[ClassTime] NULL CONSTRAINT [DF__WorkflowS__Class__2B947552] DEFAULT ('10:45'),

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

) ON [PRIMARY]

GO

ALTER TABLE [Process].[WorkflowSteps] ADD CONSTRAINT [PK__Workflow__27726CBF9F81D7BC]

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

GO
```

Uses

[Udt].[ClassTime]

[Udt].[EndingDateTime]

[Udt].[RowCountInt]

[Udt].[StartingDateTime]

[Udt].[SurrogateKeyInt]

[Udt].[WorkFlowStepsDescription]

Process

Used By

 $[Process]. [usp_ShowWorkflowSteps] \\$

[Process].[usp_TrackWorkFlow]

[Project3].[TruncateData]

Stored Procedures

Objects

Name
Process.usp_ShowWorkflowSteps
Process.usp_TrackWorkFlow
Project3.AddForeignKeys
Project3.DropForeignKeys
Project3.Load_BridgeCourseMode
Project3.Load_BridgeDepartmentInstructor
Project3.Load_Building
Project3.Load_Class
Project3.Load_Course
Project3.Load_Department
Project3.Load_Instructor
Project3.Load_ModeOfInstruction
Project3.Load_Room
Project3.LoadQueensCourseSchedule
Project3.ShowTableStatusRowCount
Project3.TruncateData

[Process].[usp_ShowWorkflowSteps]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
-- Author: Shohum Boker
-- Procedure: [Process].[usp_ShowWorkflowSteps]
-- Create date: 12/6/2020
-- Description:To show track workflow table, each total members execution, and the
total execution time of star shema
-- @GroupMemberUserAuthorizationKey is the
-- UserAuthorizationKey of the Group Member who completed
-- this stored procedure.
CREATE procedure [Process].[usp_ShowWorkflowSteps] (
@GroupMemberUserAuthorizationKey [udt].[SurrogateKeyInt]
) as
begin
DECLARE @StartTime [udt].[StartingDateTime];;
SET @StartTime = SYSDATETIME();
select * from Process.WorkflowSteps
select UserAuthorizationKey, sum(DATEDIFF(millisecond, StartingDateTime, EndingDate-
Time)) as total_time_in_ms, COUNT(*) AS number_of_procedures
from Process.WorkflowSteps
group by UserAuthorizationKey
select sum(DATEDIFF(millisecond, StartingDateTime, EndingDateTime)) as
total_time_in_ms_for_entire_database
from Process.WorkflowSteps
group by classtime
end
```

 $\label{local-project} Project > localhost, 12001 > User \ databases > Queens Class Schedule Fall 2020 > Programma bility > Stored Procedures > Process.usp_ShowWorkflowSteps$

GO

Uses

[Process].[WorkflowSteps]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
Process

[Process].[usp_TrackWorkFlow]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@WorkFlowDescription	WorkFlowStepsDescription	200
@WorkFlowStepTableRowCount	RowCountInt	4
@StartingDateTime	StartingDateTime	8
@UserAuthorizationKey	SurrogateKeyInt	4

```
-- Author: Shohum Boker
-- Procedure: [Process].[usp TrackWorkFlow]
-- Create date: 12/5/2020
-- Description: To track workflow for group members along the project
CREATE PROCEDURE [Process].[usp_TrackWorkFlow](
  @WorkFlowDescription [udt].[WorkFlowStepsDescription],
   @WorkFlowStepTableRowCount [udt].[RowCountInt],
   @StartingDateTime [udt].[StartingDateTime],
   @UserAuthorizationKey [udt].[SurrogateKeyInt]
AS
BEGIN
   SET NOCOUNT ON
   DECLARE @EndingDateTime [udt].[EndingDateTime];
  SET @EndingDateTime = SYSDATETIME();
   INSERT INTO Process.WorkflowSteps(
       WorkFlowStepDescription,
       WorkFlowStepTableRowCount,
       StartingDateTime,
       EndingDateTime,
       UserAuthorizationKey
```

```
SELECT @WorkFlowDescription, @WorkFlowStepTableRowCount, @StartingDateTime, @Ending-DateTime, @UserAuthorizationKey

END

GO
```

[Process].[WorkflowSteps]

[Udt].[EndingDateTime]

[Udt].[RowCountInt]

[Udt].[StartingDateTime]

[Udt].[SurrogateKeyInt]

[Udt].[WorkFlowStepsDescription]

Process

Used By

[Project3].[AddForeignKeys]

[Project3].[DropForeignKeys]

[Project3].[Load_BridgeCourseMode]

[Project3].[Load_BridgeDepartmentInstructor]

[Project3] [Load Building]

[Project3].[Load_Class]

[Project3].[Load_Course]

[Project3].[Load_Department]

[Project3].[Load_Instructor]

[Project3].[Load_ModeOfInstruction]

[Project3].[Load_Room]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

[Project3].[AddForeignKeys]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
-- Author: Andrew Li
-- Procedure: [Project3].[AddForeignKeys]
-- Create date: 12/6/2020
-- Description: Add foreign keys to all tables in the database by altering each table
and adding constaints
\operatorname{\mathsf{--}} @GroupMemberAuthorizationKey is the group member who completed the stored procedure
-- @BeginTime is the time that the procedure has started executing
-- @RowCount is the number of rows that has been outputted by the stored procedure
CREATE PROCEDURE [Project3].[AddForeignKeys]
   @GroupMemberAuthorizationKey AS [Udt].[SurrogateKeyInt]
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
   SET NOCOUNT ON;
   DECLARE @StartTime AS [Udt].[StartingDateTime],
            @RowCount AS [Udt].[RowCountInt];
   SET @StartTime = SYSDATETIME()
   SET @RowCount = COUNT(*);
   ALTER TABLE [Academics].[BridgeBetweenCourseAndModeOfInstruction] WITH CHECK
   ADD CONSTRAINT [FK BridgeCM Course]
       FOREIGN KEY (CourseKey)
       REFERENCES [Academics].[Course] (CourseKey);
    ALTER TABLE [Academics].[BridgeBetweenCourseAndModeOfInstruction] WITH CHECK
    ADD CONSTRAINT [FK BridgeCM ModeOfInstruction]
```

```
FOREIGN KEY (ModeOfInstructionKey)
        REFERENCES [Academics].[ModeOfInstruction] (ModeOfInstructionKey);
   ALTER TABLE [Academics].[BridgeBetweenDepartmentAndInstructor] WITH CHECK
   ADD CONSTRAINT [FK BridgeDI Department]
       FOREIGN KEY (DepartmentKey)
        REFERENCES [Academics].[Department] (DepartmentKey);
   ALTER TABLE [Academics].[BridgeBetweenDepartmentAndInstructor] WITH CHECK
   ADD CONSTRAINT [FK BridgeDI Instructor]
       FOREIGN KEY (InstructorKey)
       REFERENCES [Faculty].[Instructor] (InstructorKey);
   ALTER TABLE [Academics].[Class] WITH CHECK
   ADD CONSTRAINT [FK_Class_Course]
       FOREIGN KEY (CourseKey)
        REFERENCES [Academics].[Course] (CourseKey);
   ALTER TABLE [Academics].[Class] WITH CHECK
   ADD CONSTRAINT [FK Class ModeOfInstruction]
        FOREIGN KEY (ModeOfInstructionKey)
       REFERENCES [Academics].[ModeOfInstruction] (ModeOfInstructionKey);
   ALTER TABLE [Academics].[Class] WITH CHECK
   ADD CONSTRAINT [FK Class Instructor]
       FOREIGN KEY (InstructorKey)
       REFERENCES [Faculty].[Instructor] (InstructorKey);
   ALTER TABLE [Academics].[Class] WITH CHECK
   ADD CONSTRAINT [FK Class Building]
       FOREIGN KEY (BuildingKey)
       REFERENCES [Locations].[Building] (BuildingKey);
   ALTER TABLE [Academics].[Class] WITH CHECK
   ADD CONSTRAINT [FK Class Room]
       FOREIGN KEY (RoomKey)
       REFERENCES [Locations].[Room] (RoomKey);
   ALTER TABLE [Academics].[Course] WITH CHECK
   ADD CONSTRAINT [FK Course Department]
       FOREIGN KEY (DepartmentKey)
       REFERENCES [Academics].[Department] (DepartmentKey);
   ALTER TABLE [Locations].[Room] WITH CHECK
   ADD CONSTRAINT [FK_Room_Building]
       FOREIGN KEY (BuildingKey)
       REFERENCES [Locations].[Building] (BuildingKey);
   EXEC [Process].[usp TrackWorkFlow] @WorkFlowDescription = 'Adding All Foreign
Keys',
                                       @WorkFlowStepTableRowCount = @RowCount,
                                       @StartingDateTime = @StartTime,
                                       @UserAuthorizationKey = @GroupMember-
```

 $\label{localhost} Project > localhost, 12001 > User \ databases > Queens Class Schedule Fall 2020 > Programma bility > Stored Procedures > Project 3. Add Foreign Keys$

AuthorizationKey;
END;
GO

Uses

[Process].[usp_TrackWorkFlow]
[Udt].[RowCountInt]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
Project3

Used By

[Project3].[DropForeignKeys]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
-- Author: Andrew Li
-- Procedure: [Project3].[DropForeignKeys]
-- Create date: 12/6/2020
-- Description: Drop all of the foreign keys from all tables in the database by
altering each table and dropping the constraints
\operatorname{\mathsf{--}} @GroupMemberAuthorizationKey is the group member who completed the stored procedure
-- @BeginTime is the time that the procedure has started executing
-- @RowCount is the number of rows that has been outputted by the stored procedure
CREATE PROCEDURE [Project3].[DropForeignKeys]
   @GroupMemberAuthorizationKey AS [Udt].[SurrogateKeyInt]
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
   SET NOCOUNT ON;
   DECLARE @StartTime AS [Udt].[StartingDateTime],
            @RowCount AS [Udt].[RowCountInt];
   SET @StartTime = SYSDATETIME()
   SET @RowCount = COUNT(*);
   ALTER TABLE [Academics].[BridgeBetweenDepartmentAndInstructor]
   DROP CONSTRAINT IF EXISTS [FK BridgeDI Department];
   ALTER TABLE [Academics].[BridgeBetweenDepartmentAndInstructor]
   DROP CONSTRAINT IF EXISTS [FK_BridgeDI_Instructor];
   ALTER TABLE [Academics].[BridgeBetweenCourseAndModeOfInstruction]
    DROP CONSTRAINT IF EXISTS [FK BridgeCM Course];
```

```
ALTER TABLE [Academics].[BridgeBetweenCourseAndModeOfInstruction]
   DROP CONSTRAINT IF EXISTS[FK BridgeCM ModeOfInstruction];
   ALTER TABLE [Academics].[Class]
   DROP CONSTRAINT IF EXISTS [FK Class Course];
   ALTER TABLE [Academics].[Class]
   DROP CONSTRAINT IF EXISTS [FK Class ModeOfInstruction];
   ALTER TABLE [Academics].[Class]
   DROP CONSTRAINT IF EXISTS [FK Class Instructor];
   ALTER TABLE [Academics].[Class]
   DROP CONSTRAINT IF EXISTS [FK Class Building];
   ALTER TABLE [Academics].[Class]
   DROP CONSTRAINT IF EXISTS [FK_Class_Room];
   ALTER TABLE [Academics].[Course]
   DROP CONSTRAINT IF EXISTS [FK Course Department];
   ALTER TABLE [Locations].[Room]
   DROP CONSTRAINT IF EXISTS [FK_Room_Building];
   EXEC [Process].[usp TrackWorkFlow] @WorkFlowDescription = 'Dropping All Foreign
Keys',
                                      @WorkFlowStepTableRowCount = @RowCount,
                                      @StartingDateTime = @StartTime,
                                      @UserAuthorizationKey = @GroupMember-
AuthorizationKey;
END;
GO
```

[Process].[usp_TrackWorkFlow]
[Udt].[RowCountInt]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
Project3

Used By

[Project3].[Load_BridgeCourseMode]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project3].[Load BridgeCourseMode](
   @UserAuthorizationKey AS [udt].[SurrogateKeyInt]
AS
BEGIN
   SET NOCOUNT ON
   DECLARE @StartTime [udt].[StartingDateTime];
   DECLARE @RowCount [udt].[RowCountInt];
   SET @StartTime = SYSDATETIME();
   {\tt INSERT\ INTO\ Academics.BridgeBetweenCourseAndModeOfInstruction}\ (
       CourseKey,
       ModeOfInstructionKey,
       UserAuthorizationKey,
       DateAdded,
        DateOfLastUpdate
   SELECT CourseKey, ModeOfInstructionKey, @UserAuthorizationKey, @StartTime, @Start-
   FROM G10_2.udf_GetBridgeCourseMode()
   SELECT @RowCount = COUNT(*)
   FROM Academics.BridgeBetweenDepartmentAndInstructor
   EXEC Process.usp_TrackWorkFlow @WorkFlowDescription = 'The Table BridgeCourseAnd-
ModeOfInstruction has been added',
                                     @WorkFlowStepTableRowCount = @RowCount,
                                     @StartingDateTime = @StartTime,
                                     {\tt @UserAuthorizationKey} \ = \ {\tt @UserAuthorizationKey}
```

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```
PRINT 'The Table BridgeCourseAndModeOfInstruction has been added';
END
GO
```

Uses

[Academics].[BridgeBetweenCourseAndModeOfInstruction]
[Academics].[BridgeBetweenDepartmentAndInstructor]
[Process].[usp_TrackWorkFlow]
[Udt].[RowCountInt]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
[G10_2].[udf_GetBridgeCourseMode]
Project3

Used By

[Project3].[Load_BridgeDepartmentInstructor]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
CREATE PROCEDURE [Project3].[Load BridgeDepartmentInstructor](
   @UserAuthorizationKey AS [udt].[SurrogateKeyInt]
AS
BEGIN
   SET NOCOUNT ON
   DECLARE @StartTime [udt].[StartingDateTime];
   DECLARE @RowCount [udt].[RowCountInt];
   SET @StartTime = SYSDATETIME();
   INSERT INTO Academics.BridgeBetweenDepartmentAndInstructor(
       DepartmentKey,
       InstructorKey,
       CourseFullInfo,
       UserAuthorizationKey,
       DateAdded,
        DateOfLastUpdate
   SELECT DepartmentKey, InstructorKey, CourseFullInfo, @UserAuthorizationKey, @Start-
Time, @StartTime
   FROM G10_2.udf_GetBridgeDepartmentInstructor ()
   SELECT @RowCount = COUNT(*)
   FROM Academics.BridgeBetweenDepartmentAndInstructor
   EXEC Process.usp TrackWorkFlow @WorkFlowDescription = 'The Table BridgeDepartment-
AndInstructor has been added',
                                    @WorkFlowStepTableRowCount = @RowCount,
                                    @StartingDateTime = @StartTime,
                                    @UserAuthorizationKey = @UserAuthorizationKey
```

 $\label{local-project} Project > local host, 12001 > User \ databases > Queens Class Schedule Fall 2020 > Programma bility > Stored Procedures > Project 3. Load_Bridge Department Instructor$

```
PRINT 'The Table BridgeDepartmentAndInstructor has been added';
END
GO
```

Uses

[Academics].[BridgeBetweenDepartmentAndInstructor]
[Process].[usp_TrackWorkFlow]
[Udt].[RowCountInt]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
[G10_2].[udf_GetBridgeDepartmentInstructor]
Project3

Used By

[Project3].[Load_Building]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
-- Author: Andrew Li
-- Procedure: [Project3].[Load_Building]
-- Create date: 12/2/2020
-- Description: Stored procedure that loads the building locations of all classes in
Queens College
-- @GroupMemberUserAuthorizationKey is the UserAuthorizationKey of the group member who
completed this stored procedure
-- ------
CREATE PROCEDURE [Project3].[Load Building]
   @GroupMemberAuthorizationKey AS [Udt].[SurrogateKeyInt]
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @StartTime AS [Udt].[StartingDateTime],
           @RowCount AS [Udt].[RowCountInt];
   SET @StartTime = SYSDATETIME();
   INSERT INTO [Locations].[Building]
       [BuildingCode],
       [BuildingName],
       [UserAuthorizationKey],
       [DateAdded],
       [DateOfLastUpdate]
   SELECT [Building Code], [Building Name], @GroupMemberAuthorizationKey, @StartTime,
   FROM [G10 2].[udf GetBuilding]()
```

[Locations].[Building]
[Process].[usp_TrackWorkFlow]
[Udt].[RowCountInt]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
[G10_2].[udf_GetBuilding]
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: Nabila Azim
-- Create date: 12/05/2020
-- Description: Stored procedure that inputs data into the class table from
-- groupnUploadfile.CoursesFall2020
-- @UserAuthorizationKey is the Key of the Group Member who completed
-- the stored procedure.
CREATE PROCEDURE [Project3].[Load Class](
@UserAuthorizationKey AS [Udt].[SurrogateKeyInt]
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @StartTime [udt].[StartingDateTime];
   DECLARE @RowCount [udt].[RowCountInt];
   SET @StartTime = SYSDATETIME();
   INSERT INTO [Academics].Class
       CourseKey,
       ClassSection,
       ModeOfInstructionKey,
       ClassDay,
       ClassTime,
       InstructorKey,
       InstructorFullName,
       FullLocation,
       Enrolled,
```

```
Limit,
       BuildingKey,
       RoomKey,
       Semester,
       ClassCode,
       UserAuthorizationKey,
       DateAdded,
       DateOfLastUpdate
   SELECT DISTINCT CourseKey
   , CASE
       WHEN LEN([Sec]) > 1 THEN [Sec]
       ELSE CONCAT('0', [Sec])
    END
   , [ModeOfInstructionKey]
       WHEN [Day] = ' ' THEN 'Day To Be Determined'
       ELSE [Day]
    END
    , CASE
       WHEN [Time] = '-' THEN 'Time To Be Determined'
       ELSE [Time]
    END
   ,InstructorKey
   , CASE
       WHEN InstructorFullName IS NULL THEN 'Instructor To Be Determined'
       ELSE InstructorFullName
    END
   , CASE
       WHEN LEN(FullLocation) < 2 THEN 'Location To Be Determined'
       ELSE FullLocation
   ,[Enrolled]
   ,[Limit]
   ,BuildingKey
   ,RoomKey
   ,Semester
   ,[Code]
   ,@UserAuthorizationKey
   ,@StartTime
   ,@StartTime
   FROM [G10 2].[udf GetClass]() AS class
   SELECT @RowCount = COUNT(*)
   FROM [Academics].Class
   EXEC Process.usp TrackWorkFlow @WorkFlowDescription = 'The Class table has been
added',
                                    @WorkFlowStepTableRowCount = @RowCount,
                                    @StartingDateTime = @StartTime,
                                    @UserAuthorizationKey = @UserAuthorizationKey
   PRINT'The Class table has been added';
```

 $\label{local-project} Project > localhost, 12001 > User \ databases > Queens Class Schedule Fall 2020 > Programma bility > Stored Procedures > Project 3. Load_Class$

END GO

Uses

[Academics].[Class]
[Process].[usp_TrackWorkFlow]
[Udt].[RowCountInt]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
[G10_2].[udf_GetClass]
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: Nabila Azim
-- Create date: 12/05/2020
-- Description: Stored procedure that inputs data into the course table from
-- groupnUploadfile.CoursesFall2020
-- @UserAuthorizationKey is the Key of the Group Member who completed
-- the stored procedure.
-- -----
CREATE PROCEDURE [Project3].[Load Course](
   @UserAuthorizationKey AS [Udt].[SurrogateKeyInt]
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
  -- interfering with SELECT statements.
   SET NOCOUNT ON;
   DECLARE @StartTime [udt].[StartingDateTime];
   DECLARE @RowCount [udt].[RowCountInt];
   SET @StartTime = SYSDATETIME();
   INSERT INTO Academics.Course
       DepartmentKey,
       CourseCode,
       CourseDescription,
       CourseFullInfo,
       CourseHours,
       CourseCredits,
       UserAuthorizationKey,
```

```
DateAdded,
        DateOfLastUpdate
   SELECT DISTINCT DepartmentKey, CourseCode, [Description], sc.Course, CourseHours,
{\tt CourseCredits,\ @UserAuthorizationKey,\ @StartTime,\ @StartTime}
   FROM G10_2.udf_SeparateCourse() AS sc
        LEFT OUTER JOIN Academics.Department AS d
           on d.DepartmentCode = sc.DeptCode
        LEFT OUTER JOIN groupnUploadfile.CoursesFall2020 as o
            ON sc.Course = o.[Course (hr, crd)]
   SELECT @RowCount = COUNT(*)
   FROM Academics.Course
   EXEC Process.usp_TrackWorkFlow @WorkFlowDescription = 'The Course table has been
added',
                                     @WorkFlowStepTableRowCount = @RowCount,
                                     @StartingDateTime = @StartTime,
                                     {\tt @UserAuthorizationKey} \ = \ {\tt @UserAuthorizationKey}
    PRINT'The Course table has been added';
END
GO
```

[Academics].[Course]
[Academics].[Department]
[groupnUploadfile].[CoursesFall2020]
[Process].[usp_TrackWorkFlow]
[Udt].[RowCountInt]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
[G10_2].[udf_SeparateCourse]
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: Heesun Arthur
-- Create date: Sunday, December 6, 2020
-- Description: Stored procedure that loads data into the Department's table from
-- groupnUploadfile.CoursesFall2020
-- @UserAuthorizationKey is the
-- UserAuthorizationKey of the Group Member who completed
-- this stored procedure.
-- -----
CREATE PROCEDURE [Project3].[Load Department](
   @UserAuthorizationKey AS [udt].[SurrogateKeyInt]
AS
BEGIN
  SET NOCOUNT ON
  DECLARE @StartTime [udt].[StartingDateTime];
   DECLARE @RowCount [udt].[RowCountInt];
   SET @StartTime = SYSDATETIME();
   INSERT INTO Academics.Department(
       DepartmentCode,
       DepartmentName,
       UserAuthorizationKey,
       DateAdded,
       DateOfLastUpdate
   SELECT Deptcode, DepartmentName, @UserAuthorizationKey, @StartTime, @StartTime
   FROM G10 2.udf GetDepartment()
```

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Programmability > Stored Procedures > Project3.Load_Department

Uses

[Academics].[Department]
[Process].[usp_TrackWorkFlow]
[Udt].[RowCountInt]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
[G10_2].[udf_GetDepartment]
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: Heesun Arthur
-- Create date: Sunday, December 6, 2020
-- Description: Stored procedure that loads data into the Instructor's table from
-- groupnUploadfile.CoursesFall2020
-- @UserAuthorizationKey is the
-- UserAuthorizationKey of the Group Member who completed
-- this stored procedure.
-- -----
CREATE PROCEDURE [Project3].[Load Instructor](
   @UserAuthorizationKey AS [udt].[SurrogateKeyInt]
AS
BEGIN
  SET NOCOUNT ON
  DECLARE @StartTime [udt].[StartingDateTime];
   DECLARE @RowCount [udt].[RowCountInt];
  SET @StartTime = SYSDATETIME();
   INSERT INTO Faculty.Instructor(
       InstructorFirstName,
       InstructorLastName,
       UserAuthorizationKey,
       DateAdded,
       DateOfLastUpdate
   {\tt SELECT~FirstName,~LastName,~@UserAuthorizationKey,~@StartTime,~@StartTime}
   FROM G10_2.udf_GetInstructor()
```

[Faculty].[Instructor]
[Process].[usp_TrackWorkFlow]
[Udt].[RowCountInt]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
[G10_2].[udf_GetInstructor]
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

```
-- Author: Richie Budijono
-- Create date: Sunday, December 6, 2020
-- Description: Stored procedure that loads data into the ModeOfInstruction table
-- groupnUploadfile.CoursesFall2020
-- @UserAuthorizationKey is the
-- UserAuthorizationKey of the Group Member who completed
-- this stored procedure.
-- -----
CREATE PROCEDURE [Project3].[Load ModeOfInstruction](
   @UserAuthorizationKey AS [udt].[SurrogateKeyInt]
AS
BEGIN
  SET NOCOUNT ON
   DECLARE @StartTime [udt].[StartingDateTime];
  DECLARE @RowCount [udt].[RowCountInt];
   SET @StartTime = SYSDATETIME();
   INSERT INTO Academics.ModeOfInstruction(
      ModeOfInstructionDescription,
       UserAuthorizationKey,
       DateAdded,
       DateOfLastUpdate
   SELECT [Mode of Instruction], @UserAuthorizationKey, @StartTime, @StartTime
   FROM G10 2.udf GetModeOfInstruction()
```

[Academics].[ModeOfInstruction] [Process].[usp_TrackWorkFlow] [Udt].[RowCountInt] [Udt].[StartingDateTime] [Udt].[SurrogateKeyInt] [G10_2].[udf_GetModeOfInstruction] Project3

Used By

[Project3].[Load_Room]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
-- Author: Andrew Li
-- Procedure: [Project3].[Load_Room]
-- Create date: 12/8/2020
-- Description: Stored procedure that loads the room locations of all classes in Queens
College
-- @GroupMemberUserAuthorizationKey is the UserAuthorizationKey of the group member who
completed this stored procedure
-- ------
CREATE PROCEDURE [Project3].[Load Room]
   @GroupMemberAuthorizationKey AS [Udt].[SurrogateKeyInt]
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @StartTime AS [Udt].[StartingDateTime],
           @RowCount AS [Udt].[RowCountInt];
   SET @StartTime = SYSDATETIME();
   INSERT INTO [Locations].[Room]
       [BuildingKey],
       [RoomNumber],
       [UserAuthorizationKey],
       [DateAdded],
       [DateOfLastUpdate]
   SELECT [BuildingKey], [RoomNumber], @GroupMemberAuthorizationKey, @StartTime,
@StartTime
```

```
FROM [G10_2].[udf_GetRoom]()

SELECT @RowCount = COUNT(*)
FROM [Locations].[Room]

EXEC [Process].[usp_TrackWorkFlow] @WorkFlowDescription = 'Locations.Room table has been filled',

@WorkFlowStepTableRowCount = @RowCount,
 @StartingDateTime = @StartTime,
 @UserAuthorizationKey = @GroupMember-

AuthorizationKey;

PRINT 'The Table Room has been filled';
END;
GO
```

[Locations].[Room]
[Process].[usp_TrackWorkFlow]
[Udt].[RowCountInt]
[Udt].[StartingDateTime]
[Udt].[SurrogateKeyInt]
[G10_2].[udf_GetRoom]
Project3

Used By

[Project3].[LoadQueensCourseSchedule]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

```
-- Author: Isakhar Aminov
-- Create date: 12/11/20
-- Description: Runs all other stored procedures to truncate then load all the
tables in
-- the QueensClassScheduleFall2020 database.
CREATE PROCEDURE [Project3].[LoadQueensCourseSchedule]
BEGIN
   SET NOCOUNT ON;
   EXEC [Project3].[DropForeignKeys] @GroupMemberAuthorizationKey = 2;
         [Project3].[ShowTableStatusRowCount]
       @GroupMemberAuthorizationKey = 2,
       @TableStatus = N'''Pre-truncate of tables'''
   EXEC [Project3].[TruncateData] @GroupMemberAuthorizationkey = 2;
   EXEC [Project3].[Load Department] @UserAuthorizationKey = 6;
   EXEC [Project3].[Load Building] @GroupMemberAuthorizationKey = 2;
   EXEC [Project3].[Load Room] @GroupMemberAuthorizationKey = 2;
   EXEC [Project3].[Load Instructor] @UserAuthorizationKey = 5;
   EXEC [Project3].[Load ModeOfInstruction] @UserAuthorizationKey = 6;
   EXEC [Project3].[Load Course] @UserAuthorizationKey = 3;
   EXEC [Project3].[Load Class] @UserAuthorizationKey = 3;
   EXEC [Project3].[Load BridgeDepartmentInstructor] @UserAuthorizationKey = 6;
   EXEC [Project3].[Load_BridgeCourseMode] @UserAuthorizationKey = 6;
   EXEC [Project3].[ShowTableStatusRowCount]
       @GroupMemberAuthorizationKey = 2,
       @TableStatus = N'''Row Count after loading the Queens College Class Schedule
Database'''
  EXEC [Project3].[AddForeignKeys] @GroupMemberAuthorizationKey = 2;
```

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Programmability > Stored Procedures > Project3.LoadQueensCourseSchedule

END; GO

Uses

[Project3].[AddForeignKeys]

[Project3].[DropForeignKeys]

[Project3].[Load_BridgeCourseMode]

[Project3].[Load_BridgeDepartmentInstructor]

[Project3].[Load_Building]

[Project3].[Load_Class]

[Project3].[Load_Course]

[Project3].[Load_Department]

[Project3].[Load_Instructor]

[Project3].[Load_ModeOfInstruction]

[Project3].[Load_Room]

[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	TableStatus	100
@GroupMemberAuthorizationKey	SurrogateKeyInt	4

```
-- Author: Andrew Li
-- Procedure: [Project3].[TableStatusRowCount]
-- Create date: 12/11/2020
-- Description: Return the count of the number of rows for each table by finding the
status of each table and using the count function
-- @TableStatus is to tell whether the rows of the tables are being counted before or
after the truncation of tables
-- @GroupMemberAuthorizationKey is the group member who completed the stored procedure
-- -----
CREATE PROCEDURE [Project3].[ShowTableStatusRowCount]
   @TableStatus AS [Udt].[TableStatus],
   @GroupMemberAuthorizationKey AS [Udt].[SurrogateKeyInt]
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
   -- interfering with SELECT statements.
   SET NOCOUNT ON;
   DECLARE @StartTime AS [Udt].[StartingDateTime],
           @RowCount AS [Udt].[RowCountInt];
   SET @StartTime = SYSDATETIME()
   SET @RowCount = COUNT(*);
   SELECT TableStatus = @TableStatus,
          TableName = 'Academics.BridgeBetweenCourseAndModeOfInstruction',
          COUNT(*) AS 'Number of Rows'
   FROM [Academics].[BridgeBetweenCourseAndModeOfInstruction];
```

```
SELECT TableStatus = @TableStatus,
          TableName = 'Academics.BridgeBetweenDepartmentAndInstructor',
           COUNT(*) AS 'Number of Rows'
   FROM [Academics].[BridgeBetweenDepartmentAndInstructor];
   SELECT TableStatus = @TableStatus,
           TableName = 'Academics.Class',
          COUNT(*) AS 'Number of Rows'
   FROM [Academics].[Class];
   SELECT TableStatus = @TableStatus,
          TableName = 'Academics.Course',
          COUNT(*) AS 'Number of Rows'
   FROM [Academics].[Course];
   SELECT TableStatus = @TableStatus,
          TableName = 'Academics.Department',
           COUNT(*) AS 'Number of Rows'
   FROM [Academics].[Department];
   SELECT TableStatus = @TableStatus,
           TableName = 'Academics.ModeOfInstruction',
           COUNT(*) AS 'Number of Rows'
   FROM [Academics].[ModeOfInstruction];
   SELECT TableStatus = @TableStatus,
          TableName = 'Faculty.Instructor',
           COUNT(*) AS 'Number of Rows'
   FROM [Faculty].[Instructor];
   SELECT TableStatus = @TableStatus,
          TableName = 'Locations.Building',
          COUNT(*) AS 'Number of Rows'
   FROM [Locations].[Building];
   SELECT TableStatus = @TableStatus,
          TableName = 'Locations.Room',
          COUNT(*) AS 'Number of Rows'
   FROM [Locations].[Room];
   EXEC [Process].[usp TrackWorkFlow] @WorkFlowDescription = 'Counting All Rows Of
Each Table',
                                       @WorkFlowStepTableRowCount = @RowCount,
                                       @StartingDateTime = @StartTime,
                                       @UserAuthorizationKey = @GroupMember-
AuthorizationKey;
END;
GO
```

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Programmability > Stored Procedures > Project3.ShowTableStatusRowCount

[Academics].[BridgeBetweenDepartmentAndInstructor]

[Academics].[Class]

[Academics].[Course]

[Academics].[Department]

[Academics].[ModeOfInstruction]

[Faculty].[Instructor]

[Locations].[Building]

[Locations].[Room]

[Process].[usp_TrackWorkFlow]

[Udt].[RowCountInt]

[Udt].[StartingDateTime]

[Udt].[SurrogateKeyInt]

[Udt].[TableStatus]

Project3

Used By

[Project3].[TruncateData]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

```
-- Author: Andrew Li
-- Procedure: [Project3].[TruncateData]
-- Create date: 12/6/2020
-- Description: Delete all the data within each table of the database using
truncate
\operatorname{\mathsf{--}} @GroupMemberAuthorizationKey is the group member who completed the stored procedure
-- @BeginTime is the time that the procedure has started executing
-- @RowCount is the number of rows that has been outputted by the stored procedure
CREATE PROCEDURE [Project3].[TruncateData]
   @GroupMemberAuthorizationKey AS [Udt].[SurrogateKeyInt]
AS
BEGIN
   -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
   SET NOCOUNT ON;
   DECLARE @StartTime AS [Udt].[StartingDateTime],
            @RowCount AS [Udt].[RowCountInt];
   SET @StartTime = SYSDATETIME()
   SET @RowCount = COUNT(*);
   TRUNCATE TABLE Process. WorkflowSteps;
   TRUNCATE TABLE [Academics].[BridgeBetweenCourseAndModeOfInstruction];
    TRUNCATE TABLE [Academics].[BridgeBetweenDepartmentAndInstructor];
   TRUNCATE TABLE [Academics].[Class];
   TRUNCATE TABLE [Academics].[Course];
    TRUNCATE TABLE [Academics].[Department];
    TRUNCATE TABLE [Academics].[ModeOfInstruction];
```

[Academics]. [BridgeBetweenCourseAndModeOfInstruction]

[Academics].[BridgeBetweenDepartmentAndInstructor]

[Academics].[Class]

[Academics].[Course]

[Academics].[Department]

[Academics].[ModeOfInstruction]

[Faculty].[Instructor]

[Locations].[Building]

[Locations].[Room]

[Process].[WorkflowSteps]

[Process].[usp TrackWorkFlow]

[Udt].[RowCountInt]

[Udt].[StartingDateTime]

[Udt].[SurrogateKeyInt]

Project3

Used By

■ Table-valued Functions

Objects

Name
G10_2.udf_GetBridgeCourseMode
G10_2.udf_GetBridgeDepartmentInstructor
G10_2.udf_GetBuilding
G10_2.udf_GetClass
G10_2.udf_GetDepartment
G10_2.udf_GetInstructor
G10_2.udf_GetModeOfInstruction
G10_2.udf_GetRoom
G10_2.udf_SeparateCourse

☐ [G10_2].[udf_GetBridgeCourseMode]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

Uses

[Academics].[Class] [Udt].[SurrogateKeyInt] G10_2

Used By

[Project3].[Load_BridgeCourseMode]

[G10_2].[udf_GetBridgeDepartmentInstructor]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

Uses

[Academics].[Class] [Academics].[Course] [Udt].[CourseFullInfo] [Udt].[SurrogateKeyInt]

G10_2

Used By

 $[Project 3]. [Load_Bridge Department Instructor] \\$

[G10_2].[udf_GetBuilding]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- Author: Andrew Li
-- Create date: 12/6/2020
-- Description: Inline-Table Valued Function to separate BuildingCode from Location as
well as returning BuildingName
CREATE FUNCTION [G10_2].[udf_GetBuilding]()
RETURNS TABLE
AS
RETURN
   SELECT A.BuildingCode AS [Building Code],
          CASE
               WHEN A.BuildingCode LIKE 'AR' THEN 'Amphitheatre'
               WHEN A.BuildingCode LIKE 'CD' THEN 'Career Development'
               WHEN A.BuildingCode LIKE 'CH' THEN 'Colwin Hall'
                WHEN A.BuildingCode LIKE 'DY' THEN 'Delany Hall'
               WHEN A.BuildingCode LIKE 'FG' THEN 'FitzGerald Gym'
               WHEN A.BuildingCode LIKE 'GB' THEN 'G Building'
               WHEN A.BuildingCode LIKE 'GC' THEN 'Gertz Center'
               WHEN A.BuildingCode LIKE 'GT' THEN 'Goldstein Theatre'
               WHEN A.BuildingCode LIKE 'HH' THEN 'Honors Hall'
               WHEN A.BuildingCode LIKE 'IB' THEN 'I Building'
                WHEN A.BuildingCode LIKE 'JH' THEN 'Jefferson Hall'
               WHEN A.BuildingCode LIKE 'KG' THEN 'King Hall'
               WHEN A.BuildingCode LIKE 'KP' THEN 'Klapper Hall'
                WHEN A.BuildingCode LIKE 'KY' THEN 'Kiely Hall'
               WHEN A.BuildingCode LIKE 'MU' THEN 'Music Building'
               WHEN A.BuildingCode LIKE 'PH' THEN 'Powdermaker Hall'
               WHEN A.BuildingCode LIKE 'QH' THEN 'Queens Hall'
                WHEN A.BuildingCode LIKE 'RA' THEN 'Rathaus Hall'
               WHEN A.BuildingCode LIKE 'RE' THEN 'Remsen Hall'
                WHEN A.BuildingCode LIKE 'RO' THEN 'Rosenthal Library'
                WHEN A.BuildingCode LIKE 'RZ' THEN 'Razran Hall'
                WHEN A.BuildingCode LIKE 'SB' THEN 'Science Building'
                WHEN A.BuildingCode LIKE 'SU' THEN 'Student Union'
               ELSE 'To Be Determined'
```

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Programmability > Functions > Table-valued Functions > G10_2.udf_GetBuilding

```
END AS [Building_Name]
FROM (SELECT DISTINCT SUBSTRING([Location], 1, CHARINDEX(' ', [Location])) AS
BuildingCode
FROM groupnUploadfile.CoursesFall2020) AS A
WHERE LEN(A.BuildingCode) > 1
);
GO
```

Uses

[groupnUploadfile].[CoursesFall2020] G10_2

Used By

[Project3].[Load_Building]

🖫 [G10_2].[udf_GetClass]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- Author: Nabila Azim
-- Create date: December 6, 2020
-- Description: Inline Table valued function which returns the data
--from the Class table
CREATE FUNCTION [G10_2].[udf_GetClass]()
RETURNS TABLE
AS RETURN
  SELECT min(c.CourseKey) AS CourseKey
   ,min([Sec]) AS Sec
   , min (moi.[ModeOfInstructionKey]) AS ModeOfInstructionKey
   ,min([Day]) AS [Day]
   ,min([Time]) AS [Time]
   ,min(i.InstructorKey) AS InstructorKey
   ,CONCAT(min(BuildingCode), '', min(RoomNumber)) AS FullLocation
   ,min([Enrolled]) AS Enrolled
   ,min([Limit]) AS Limit
   ,min(b.BuildingKey) AS BuildingKey
   , min (r.RoomKey) AS RoomKey
   , 'Fall2020' AS Semester
   ,min([Code]) AS Code
   FROM groupnUploadfile.CoursesFall2020 AS o
       LEFT OUTER JOIN Academics.Course AS c
          ON c.CourseFullInfo = o.[Course (hr, crd)]
       LEFT OUTER JOIN Academics. ModeOfInstruction as moi
          ON moi.ModeOfInstructionDescription = o.[Mode of Instruction]
       LEFT OUTER JOIN Faculty. Instructor as i
          ON i.InstructorFullName = o.Instructor
       LEFT OUTER JOIN Locations. Building AS b
          ON b.BuildingCode = SUBSTRING(o.[Location], 1, CHARINDEX(' ',
o.[Location]))
       LEFT OUTER JOIN Locations.Room AS r
          ON r.RoomNumber = SUBSTRING(o.[Location], CHARINDEX(' ', o.[Location]),
LEN(o.[Location]))
   GROUP BY Code
```

 $\label{localhost} Project > localhost, 12001 > User \ databases > Queens Class Schedule Fall 2020 > Programma bility > Functions > Table-valued Functions > G10_2.udf_Get Class$

GO

Uses

[Academics].[Course]
[Academics].[ModeOfInstruction]
[Faculty].[Instructor]
[groupnUploadfile].[CoursesFall2020]
[Locations].[Building]
[Locations].[Room]
[Udt].[SurrogateKeyInt]
G10_2

Used By

[Project3].[Load_Class]

Author: iamin

G10_2].[udf_GetDepartment]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- -----
-- Author: Heesun Arthur
-- Create date: Monday, December 7, 2020
-- Description: Get the information on Department(Their associated code in the Major
inventory list) and return it
CREATE FUNCTION [G10_2].[udf_GetDepartment]()
RETURNS TABLE
AS
RETURN
   WITH Dept AS (
       SELECT DISTINCT SUBSTRING([Course (hr, crd)], 1, CHARINDEX(' ', [Course (hr,
crd)])) AS DeptCode
       FROM groupnUploadfile.CoursesFall2020
   SELECT DeptCode
       , CASE
           WHEN DeptCode = 'ACCT' THEN 'ACCOUNTING'
           WHEN DeptCode = 'AFST' THEN 'AFRICANA STUDIES'
           WHEN DeptCode = 'AMST' THEN 'AMERICAN STUDIES'
           WHEN DeptCode = 'ANTH' THEN 'ANTHROPOLOGY'
           WHEN DeptCode = 'ARAB' THEN 'ARABIC'
           WHEN DeptCode = 'ARTH' THEN 'ART HISTORY'
           WHEN DeptCode = 'ARTS' THEN 'ART'
           WHEN DeptCode = 'ASTR' THEN 'ASTRONOMY'
           WHEN DeptCode = 'BALA' THEN 'BUSINESS AND LIBERAL ARTS'
           WHEN DeptCode = 'BIOCH' THEN 'BIOCHEMISTRY'
           WHEN DeptCode = 'BIOL' THEN 'BIOLOGY'
           WHEN DeptCode = 'BUS' THEN 'BUSINESS'
           WHEN DeptCode = 'CERT' THEN 'CERTIFIED FULL TIME'
           WHEN DeptCode = 'CESL' THEN 'COLLEGE ENGLISH AS SECOND LANGUAGE'
           WHEN DeptCode = 'CHEM' THEN 'CHEMISTRY'
           WHEN DeptCode = 'CHIN' THEN 'CHINESE'
           WHEN DeptCode = 'CLAS' THEN 'CLASSICAL STUDIES'
           WHEN DeptCode = 'CMAL' THEN 'CLASSICAL, MIDDLE EASTERN, ASIAN LANGUAGE'
           WHEN DeptCode = 'CMLIT' THEN 'COMPARATIVE LITERATURE'
           WHEN DeptCode = 'CO-OP' THEN 'COOPERATIVE EDUCATION'
           WHEN DeptCode = 'CSCI' THEN 'COMPUTER SCIENCE'
```

```
WHEN DeptCode = 'CUNBA' THEN 'CUNY BA'
WHEN DeptCode = 'DANCE' THEN 'DANCE'
WHEN DeptCode = 'DRAM' THEN 'DRAMA'
WHEN DeptCode = 'EAST' THEN 'EAST ASIAN STUDIES'
WHEN DeptCode = 'ECON' THEN 'ECONOMICS'
WHEN DeptCode = 'ECP' THEN 'EDUCATIONAL AND COMMUNITY PROGRAMS'
WHEN DeptCode = 'ECPCE' THEN 'MENTAL HEALTH COUNSELING'
WHEN DeptCode = 'ECPEL' THEN 'EDUCATIONAL LEADERSHIP'
WHEN DeptCode = 'ECPSE' THEN 'SPECIAL EDUCATION'
WHEN DeptCode = 'ECPSP' THEN 'SCHOOL PSYCHOLOGY'
WHEN DeptCode = 'EECE' THEN 'ELEMENTARY AND EARLY CHILDHOOD EDUCATION'
WHEN DeptCode = 'ENGL' THEN 'ENLGISH'
WHEN DeptCode = 'ENSCI' THEN 'ENVIRONMENTAL SCIENCE'
WHEN DeptCode = 'EURO' THEN 'EUROPEAN STUDIES'
WHEN DeptCode = 'FNES' THEN 'FMAILY, NUTRITION, EXERCISE'
WHEN DeptCode = 'FREN' THEN 'FRENCH'
WHEN DeptCode = 'GEOL' THEN 'GEOLOGY'
WHEN DeptCode = 'GERM' THEN 'GERMANY'
WHEN DeptCode = 'GREEK' THEN 'GREEK'
WHEN DeptCode = 'GRKMD' THEN 'MODERN GREEK'
WHEN DeptCode = 'GRKST' THEN 'MODERN GREEK STUDIES'
WHEN DeptCode = 'HEBRW' THEN 'HEBREW'
WHEN DeptCode = 'HIST' THEN 'HISTORY'
WHEN DeptCode = 'HMNS' THEN 'HONORS IN MATH AND SCIENCE'
WHEN DeptCode = 'HNRS' THEN 'MACAULAY HONORS'
WHEN DeptCode = 'HSS' THEN 'HONORS IN SOCIAL SCIENCES'
WHEN DeptCode = 'HTH' THEN 'HUMANNITIES'
WHEN DeptCode = 'IRST' THEN 'IRISH STUDIES'
WHEN DeptCode = 'ITAL' THEN 'ITALIAN'
WHEN DeptCode = 'JAZZ' THEN 'JAZZ STUDIES'
WHEN DeptCode = 'JEWST' THEN 'JEWISH STUDIES'
WHEN DeptCode = 'JOURN' THEN 'JOURNALISM'
WHEN DeptCode = 'JPNS' THEN 'JAPANESE'
WHEN DeptCode = 'KOR' THEN 'KOREAN'
WHEN DeptCode = 'LABST' THEN 'LABOR STUDIES'
WHEN DeptCode = 'LATIN' THEN 'LATIN'
WHEN DeptCode = 'LBLST' THEN 'WESTERN VALUES'
WHEN DeptCode = 'LBSCI' THEN 'LIBRARY AND INFORMATION SCIENCE'
WHEN DeptCode = 'LCD' THEN 'LINGUISTICS AND COMMUNICATION DISORDER'
WHEN DeptCode = 'LIBR' THEN 'LIBRARY RESEARCH'
WHEN DeptCode = 'MAM' THEN 'MAINTAIN MATRICULATION'
WHEN DeptCode = 'MATH' THEN 'MATHEMATICS'
WHEN DeptCode = 'MEDST' THEN 'MEDIA STUDIES'
WHEN DeptCode = 'MES' THEN 'MIDDLES EASTERN STUDIES'
WHEN DeptCode = 'MUSIC' THEN 'MUSIC'
WHEN DeptCode = 'PERM' THEN 'PERMIT'
WHEN DeptCode = 'PHIL' THEN 'PHILOSOPHY'
WHEN DeptCode = 'PHYS' THEN 'PHYSICS'
WHEN DeptCode = 'PORT' THEN 'PORTGUESE'
WHEN DeptCode = 'PSCI' THEN 'POLITICAL SCIENCE'
WHEN DeptCode = 'PSYCH' THEN 'PSYCHOLOGY'
WHEN DeptCode = 'RLGST' THEN 'RELIGIOUS STUDIES'
WHEN DeptCode = 'RM' THEN 'RISK MEASUREMENT'
```

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Programmability > Functions > Table-valued Functions > G10_2.udf_GetDepartment

```
WHEN DeptCode = 'RUSS' THEN 'RUSSIAN'
WHEN DeptCode = 'SEEK' THEN 'SEEK'
WHEN DeptCode = 'SEYS' THEN 'SECONDARY EDUCATION AND YOUTH SERVICES'
WHEN DeptCode = 'SEYSL' THEN 'SECONDARY EDUCATION'
WHEN DeptCode = 'SOC' THEN 'SOCIOLOGY'
WHEN DeptCode = 'SPAN' THEN 'SPANISH'
WHEN DeptCode = 'SPST' THEN 'SPECIAL STUDIES'
WHEN DeptCode = 'STABD' THEN 'STUDY ABROAD'
WHEN DeptCode = 'STPER' THEN 'STUDENT PERSONNEL'
WHEN DeptCode = 'URBST' THEN 'URBAN STUDIES'
WHEN DeptCode = 'WGS' THEN 'WOMEN AND GENDER STUDIES'

END AS DepartmentName
FROM Dept
WHERE LEN(DeptCode) > 1
GO
```

Uses

[groupnUploadfile].[CoursesFall2020] G10_2

Used By

[Project3].[Load_Department]

🗔 [G10_2].[udf_GetInstructor]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- Author: Heesun Arthur
-- Create date: Monday, December 7, 2020
-- Description: Get the information(LastName, FirstName) of Instructor and return it
-- -----
CREATE FUNCTION [G10 2].[udf GetInstructor]()
RETURNS TABLE
RETURN
   WITH InstructorNames AS (
      SELECT DISTINCT
          [Instructor]
          ,SUBSTRING([Instructor], 1, CHARINDEX(',', [Instructor]) - 1) AS LastName
           , REVERSE (SUBSTRING (REVERSE ([Instructor]), 1, CHARINDEX('',
REVERSE([Instructor]))-1)) AS FirstName
       FROM groupnUploadfile.CoursesFall2020
       WHERE LEN([Instructor]) > 1
  )
   SELECT SUBSTRING(LastName, 1 , CHARINDEX(',', [Instructor])) AS LastName, FirstName
   FROM InstructorNames
GO
```

Uses

[groupnUploadfile].[CoursesFall2020] G10_2

Used By

[Project3].[Load_Instructor]

□ [G10_2].[udf_GetModeOfInstruction]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

Uses

[groupnUploadfile].[CoursesFall2020] G10_2

Used By

[Project3].[Load_ModeOfInstruction]

🖳 [G10_2].[udf_GetRoom]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- Author: Andrew Li
-- Create date: 12/8/2020
-- Description: Inline-Table Valued Function to return the room locations of all
courses
CREATE FUNCTION [G10_2].[udf_GetRoom]()
RETURNS TABLE
AS
RETURN
   WITH R AS (
   SELECT [Location],
   SUBSTRING([Location], CHARINDEX(' ', [Location]), LEN([Location])) AS RoomNumber
  FROM groupnUploadfile.CoursesFall2020
   WHERE LEN([Location]) > 1
   SELECT DISTINCT B.BuildingKey, R.RoomNumber
   FROM R
       FULL JOIN Locations. Building AS B
           ON B. [BuildingCode] = SUBSTRING([R].[Location], 1, CHARINDEX('',
[R].[Location]))
);
GO
```

Uses

[groupnUploadfile].[CoursesFall2020] [Locations].[Building] [Udt].[SurrogateKeyInt] G10_2

Used By

[Project3].[Load_Room]

[G10_2].[udf_SeparateCourse]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

SQL Script

```
-- -----
-- Author: Richie Budijono
-- Create date: Sunday, December 6, 2020
-- Description: Separate Course into into 4 columns
              CourseName, CourseCode, Hours, Credits
CREATE FUNCTION [G10_2].[udf_SeparateCourse]()
RETURNS TABLE
AS
RETURN
   WITH C AS (
       SELECT DISTINCT
          [Course (hr, crd)] AS Course
           ,[value]
           , ROW NUMBER() OVER(PARTITION BY [Course (hr, crd)] ORDER BY (SELECT NULL))
as rn
       FROM groupnUploadfile.CoursesFall2020
           CROSS APPLY STRING_SPLIT([Course (hr, crd)], '') AS BK
          )
   SELECT Course,
           [1] AS DeptCode,
           [2] AS CourseCode,
           SUBSTRING([3], 2, LEN([3])-2) AS [CourseHours],
           SUBSTRING([4], 1, LEN([4])-1) AS [CourseCredits]
           --SUBSTRING([3], 2,
           -- CASE
                WHEN LEN([3]) > 0 THEN LEN([3]) - 2 ELSE LEN([3])
           -- END) AS [Hours],
           --SUBSTRING([4], 1,
           -- WHEN LEN([4]) = 2 THEN LEN([3]) - 2
                   ELSE LEN([4])
           -- END) AS [Credits]
   FROM C
       MAX (VALUE)
```

 $\label{localhost} Project > localhost, 12001 > User \ databases > Queens Class Schedule Fall 2020 > Programma bility > Functions > Table-valued Functions > G10_2.udf_Separate Course$

```
FOR RN IN([1],[2],[3],[4])
) as PVT
WHERE LEN(Course) > 1
GO
```

Uses

[groupnUploadfile].[CoursesFall2020] G10_2

Used By

[Project3].[Load_Course]

iii User-Defined Data Types

Objects

Name
Udt.BuildingCode
Udt.BuildingName
Udt.ClassCodeInt
Udt.ClassDay
Udt.ClassSection
Udt.ClassTime
Udt.CourseCode
Udt.CourseCreditsInt
Udt.CourseFullInfo
Udt.CourseHoursInt
Udt.DateAdded
Udt.DateOfLastUpdate
Udt.DepartmentCode
Udt.DepartmentName
Udt.Description
Udt.EndingDateTime
Udt.EnrolledInt
Udt.EnrolledLimitInt
Udt.FirstName
Udt.FullLocation
Udt.FullName
Udt.GroupName
Udt.IndividualProject
Udt.LastName
Udt.OvertallyInt
Udt.RoomNumber
Udt.RowCountInt
Udt.Semester
Udt.StartingDateTime
Udt.SurrogateKeyInt
Udt.TableStatus
Udt.WorkFlowStepsDescription

[Udt].[BuildingCode]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	10

SQL Script

CREATE TYPE [Udt].[BuildingCode] FROM nvarchar (10) NOT NULL
GO

Uses

Udt

Used By

[Locations].[Building]

[Udt].[BuildingName]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	30

SQL Script

CREATE TYPE [Udt].[BuildingName] FROM nvarchar (30) NOT NULL
GO

Uses

Udt

Used By

[Locations].[Building]

[Udt].[ClassCodeInt]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	int
Length	4

SQL Script

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

Uses

Udt

Used By

🛅 [Udt].[ClassDay]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	40

SQL Script

CREATE TYPE [Udt].[ClassDay] FROM nvarchar (40) NOT NULL
GO

Uses

Udt

Used By

[Udt].[ClassSection]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	40

SQL Script

CREATE TYPE [Udt].[ClassSection] FROM nvarchar (40) NOT NULL
GO

Uses

Udt

Used By

[Udt].[ClassTime]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	40

SQL Script

CREATE TYPE [Udt].[ClassTime] FROM nvarchar (40) NOT NULL
GO

Uses

Udt

Used By

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

[Udt].[CourseCode]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	10

SQL Script

CREATE TYPE [Udt].[CourseCode] FROM nvarchar (10) NOT NULL
GO

Uses

Udt

Used By

[Academics].[Course]

[Udt].[CourseCreditsInt]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	decimal
Length	5

SQL Script

CREATE TYPE [Udt].[CourseCreditsInt] FROM decimal (6, 2) NOT NULL
GO

Uses

Udt

Used By

[Academics].[Course]

[Udt].[CourseFullInfo]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	50

SQL Script

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

Uses

Udt

Used By

[Academics].[BridgeBetweenDepartmentAndInstructor] [Academics].[Course] [G10_2].[udf_GetBridgeDepartmentInstructor]

[Udt].[CourseHoursInt]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	decimal
Length	5

SQL Script

CREATE TYPE [Udt].[CourseHoursInt] FROM decimal (6, 2) NOT NULL
GO

Uses

Udt

Used By

[Academics].[Course]

[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

[Academics].[BridgeBetweenCourseAndModeOfInstruction]

[Academics]. [BridgeBetweenDepartmentAndInstructor]

[Academics].[Class]

[Academics].[Course]

[Academics].[Department]

[Academics].[ModeOfInstruction]

[DbSecurity].[UserAuthorization]

[Faculty].[Instructor]

[Locations].[Building]

[Locations].[Room]

[Udt].[DateOfLastUpdate]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	datetime2
Length	8

SQL Script

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

Uses

Udt

Used By

[Academics].[BridgeBetweenCourseAndModeOfInstruction]

[Academics]. [BridgeBetweenDepartmentAndInstructor]

[Academics].[Class]

[Academics].[Course]

[Academics].[Department]

[Academics].[ModeOfInstruction]

[Faculty].[Instructor]

[Locations].[Building]

[Locations].[Room]

[Udt].[DepartmentCode]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	10

SQL Script

CREATE TYPE [Udt].[DepartmentCode] FROM nvarchar (10) NOT NULL
GO

Uses

Udt

Used By

[Academics].[Department]

[Udt].[DepartmentName]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	50

SQL Script

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

Uses

Udt

Used By

[Academics].[Department]

[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

[Academics].[Course]

[Academics]. [Mode Of Instruction]

[Udt].[EndingDateTime]

Properties

Property	Value
Nullability	NULL allowed
Base Type Name	datetime2
Length	8

SQL Script

CREATE TYPE [Udt].[EndingDateTime] FROM datetime2 NULL
GO

Uses

Udt

Used By

[Process].[WorkflowSteps]
[Process].[usp_TrackWorkFlow]

 $\label{localhost} Project > localhost, 12001 > User \ databases > Queens Class Schedule Fall 2020 > Programma bility > Types > User-Defined \ Data \ Types > Udt. Enrolled Int$

[Udt].[EnrolledInt]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	int
Length	4

SQL Script

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

Uses

Udt

Used By

[Udt].[EnrolledLimitInt]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	int
Length	4

SQL Script

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

Uses

Udt

Used By

[Udt].[FirstName]

Properties

Property	Value
Nullability	NULL allowed
Base Type Name	nvarchar
Length	30

SQL Script

CREATE TYPE [Udt].[FirstName] FROM nvarchar (30) NULL
GO

Uses

Udt

Used By

[DbSecurity].[UserAuthorization] [Faculty].[Instructor]

[Udt].[FullLocation]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	50

SQL Script

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

Uses

Udt

Used By

[Udt].[FullName]

Properties

Property	Value
Nullability	NULL allowed
Base Type Name	nvarchar
Length	60

SQL Script

CREATE TYPE [Udt].[FullName] FROM nvarchar (60) NULL
GO

Uses

Udt

Used By

[Academics].[Class]

[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

[DbSecurity].[UserAuthorization]

[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

[DbSecurity].[UserAuthorization]

[Udt].[LastName]

Properties

Property	Value
Nullability	NULL allowed
Base Type Name	nvarchar
Length	30

SQL Script

CREATE TYPE [Udt].[LastName] FROM nvarchar (30) NULL
GO

Uses

Udt

Used By

[DbSecurity].[UserAuthorization] [Faculty].[Instructor]

 $\label{localhost} Project > localhost, 12001 > User \ databases > Queens Class Schedule Fall 2020 > Programma bility > Types > User-Defined \ Data \ Types > Udt. Overtally Int$



Properties

Property	Value
Nullability	NOT NULL
Base Type Name	int
Length	4

SQL Script

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

Uses

Udt

[Udt].[RoomNumber]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	30

SQL Script

CREATE TYPE [Udt].[RoomNumber] FROM nvarchar (30) NOT NULL
GO

Uses

Udt

Used By

[Locations].[Room]

[Udt].[RowCountInt]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	int
Length	4

SQL Script

```
CREATE TYPE [Udt].[RowCountInt] FROM int NOT NULL
GO
```

Uses

Udt

Used By

[Process].[WorkflowSteps]

[Process].[usp TrackWorkFlow]

[Project3].[AddForeignKeys]

[Project3].[DropForeignKeys]

[Project3].[Load_BridgeCourseMode]

[Project3].[Load_BridgeDepartmentInstructor]

[Project3].[Load_Building]

[Project3].[Load_Class]

[Project3].[Load_Course]

[Project3].[Load_Department]

[Project3].[Load_Instructor]

[Project3].[Load_ModeOfInstruction]

[Project3].[Load_Room]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

 $\label{localhost} Project > localhost, 12001 > User \ databases > Queens Class Schedule Fall 2020 > Programma bility > Types > User-Defined \ Data \ Types > Udt. Semester$

[Udt].[Semester]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	30

SQL Script

CREATE TYPE [Udt].[Semester] FROM nvarchar (30) NOT NULL
GO

Uses

Udt

Used By

[Academics].[Class]

[Udt].[StartingDateTime]

Properties

Property	Value
Nullability	NULL allowed
Base Type Name	datetime2
Length	8

SQL Script

CREATE TYPE [Udt].[StartingDateTime] FROM datetime2 NULL
GO

Uses

Udt

Used By

[Process].[WorkflowSteps]

[Process].[usp ShowWorkflowSteps]

[Process].[usp_TrackWorkFlow]

[Project3].[AddForeignKeys]

[Project3].[DropForeignKeys]

[Project3].[Load_BridgeCourseMode]

[Project3].[Load_BridgeDepartmentInstructor]

[Project3].[Load_Building]

[Project3].[Load_Class]

[Project3].[Load_Course]

[Project3].[Load_Department]

[Project3].[Load_Instructor]

[Project3].[Load_ModeOfInstruction]

[Project3].[Load_Room]

[Project3].[ShowTableStatusRowCount]

[Project3].[TruncateData]

[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

[Academics].[BridgeBetweenCourseAndModeOfInstruction]

[Academics].[BridgeBetweenDepartmentAndInstructor]

[Academics].[Class]

[Academics].[Course]

[Academics].[Department]

[Academics].[ModeOfInstruction]

[DbSecurity].[UserAuthorization]

[Faculty].[Instructor]

[Locations].[Building]

[Locations].[Room]

[Process].[WorkflowSteps]

 $[Process]. [usp_ShowWorkflowSteps] \\$

[Process].[usp_TrackWorkFlow]

[Project3].[AddForeignKeys]

[Project3].[DropForeignKeys]

[Project3].[Load_BridgeCourseMode]

 $[Project 3]. [Load_Bridge Department Instructor] \\$

[Project3].[Load_Building]

[Project3].[Load_Class]

[Project3].[Load_Course]

[Project3].[Load_Department]

[Project3].[Load_Instructor]

[Project3].[Load_ModeOfInstruction]

[Project3].[Load_Room]

[Project3].[ShowTableStatusRowCount]

 $\label{localhost} Project > localhost, 12001 > User \ databases > Queens Class Schedule Fall 2020 > Programma bility > Types > User-Defined \ Data \ Types > Udt. Surrogate KeyInt$

[Project3].[TruncateData]
[G10_2].[udf_GetBridgeCourseMode]
[G10_2].[udf_GetBridgeDepartmentInstructor]
[G10_2].[udf_GetClass]
[G10_2].[udf_GetRoom]

[Udt].[TableStatus]

Properties

Property	Value
Nullability	NOT NULL
Base Type Name	nvarchar
Length	50

SQL Script

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

Uses

Udt

Used By

[Project3].[ShowTableStatusRowCount]

[Udt].[WorkFlowStepsDescription]

Properties

Property	Value
Nullability	NULL allowed
Base Type Name	nvarchar
Length	100

SQL Script

CREATE TYPE [Udt].[WorkFlowStepsDescription] FROM nvarchar (100) NULL
GO

Uses

Udt

Used By

[Process].[WorkflowSteps]
[Process].[usp_TrackWorkFlow]



Objects

Name	
dbo	
EC3\thehitman	
guest	



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			

La Database Roles

Objects

ame
o_accessadmin
o_backupoperator
o_datareader
o_datawriter
o_ddladmin
o_denydatareader
o_denydatawriter
o_owner
o_securityadmin
ıblic

♣ 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

Members

• EC3\thehitman

SQL Script

ALTER ROLE [db_owner] ADD MEMBER [EC3\thehitman]

GO

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Security > Roles > Database Roles > db_owner		
Uses		
EC3\thehitman		
♣♣ db_securityadmin		
Properties		
Property	Value	
Owner	dbo	
public		
Properties		

Property	Value
Owner	dbo

△ Schemas

Objects

Name
Academics
DbSecurity
Faculty
G10_2
groupnDim
groupnFACT
groupnUploadfile
Locations
Process
Project3
QC
Udt
Upload
Uploadfile

△ Academics

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[Academics].[BridgeBetweenCourseAndModeOfInstruction]
[Academics].[BridgeBetweenDepartmentAndInstructor]
[Academics].[Class]
[Academics].[Course]
[Academics].[Department]

[Academics].[ModeOfInstruction]

♣ DbSecurity

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[DbSecurity].[UserAuthorization]

△ Faculty

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[Faculty].[Instructor]

Properties

Property	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA [G10_2]
AUTHORIZATION [dbo]
GO
```

Used By

[G10_2].[udf_GetBridgeCourseMode]

[G10_2].[udf_GetBridgeDepartmentInstructor]

[G10_2].[udf_GetBuilding]

[G10_2].[udf_GetClass]

[G10_2].[udf_GetDepartment]

[G10_2].[udf_GetInstructor]

[G10_2].[udf_GetModeOfInstruction]

[G10_2].[udf_GetRoom]

[G10_2].[udf_SeparateCourse]

Properties

Property	Value
Owner	dbo

SQL Script

CREATE SCHEMA [groupnDim]
AUTHORIZATION [dbo]
GO

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Security > Schemas > groupn-FACT



Properties

Property	Value
Owner	dbo

SQL Script

CREATE SCHEMA [groupnFACT]
AUTHORIZATION [dbo]
GO

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Security > Schemas > groupn-Uploadfile



Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[groupn Upload file]. [Courses Fall 2020]

△ Locations

Properties

Property	Value
Owner	dbo

SQL Script

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

Used By

[Locations].[Building] [Locations].[Room]

⚠ 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_BridgeCourseMode]

[Project3].[Load_BridgeDepartmentInstructor]

[Project3].[Load_Building]

[Project3].[Load_Class]

[Project3].[Load_Course]

[Project3].[Load_Department]

[Project3].[Load_Instructor]

[Project3].[Load_ModeOfInstruction]

[Project3].[Load_Room]

[Project 3]. [Load Queens Course Schedule]

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

[Project3].[TruncateData]



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].[BuildingCode]

[Udt].[BuildingName]

[Udt].[ClassCodeInt]

[Udt].[ClassDay]

[Udt].[ClassSection]

[Udt].[ClassTime]

[Udt].[CourseCode]

[Udt].[CourseCreditsInt]

[Udt].[CourseFullInfo]

[Udt].[CourseHoursInt]

[Udt].[DateAdded]

[Udt].[DateOfLastUpdate]

[Udt].[DepartmentCode]

[Udt].[DepartmentName]

[Udt].[Description]

[Udt].[EndingDateTime]

[Udt].[EnrolledInt]

[Udt].[EnrolledLimitInt]

[Udt].[FirstName]

[Udt].[FullLocation]

[Udt].[FullName]

[Udt].[GroupName]

[Udt].[IndividualProject]

[Udt].[LastName]

[Udt].[OvertallyInt]

[Udt].[RoomNumber]

[Udt].[RowCountInt]

[Udt].[Semester]

[Udt].[StartingDateTime]

[Udt].[SurrogateKeyInt]

[Udt].[TableStatus]

Project > localhost,12001 > User databases > QueensClassScheduleFall2020 > Security > Schemas > Udt

[Udt].[WorkFlowStepsDescription]

♣ Upload

Properties

Property	Value
Owner	dbo

SQL Script

CREATE SCHEMA [Upload]
AUTHORIZATION [dbo]
GO

♣ Uploadfile

Properties

Property	Value
Owner	dbo

SQL Script

CREATE SCHEMA [Uploadfile]
AUTHORIZATION [dbo]
GO