(local)\SQL2016 Documentation

ExamSystem

Server	(local)\SQL2016
Author	Yomna
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Databases (1)

- ExamSystem

Server Properties

Property	Value
Product	Microsoft SQL Server
Version	13.0.1601.5
Language	English (United States)
Platform	NT x64
Edition	Enterprise Edition (64-bit)
Engine Edition	3 (Enterprise)
Processors	4
OS Version	6.3 (18362)
Physical Memory	8103
Is Clustered	False
Root Directory	C:\Program Files\Microsoft SQL Server\MSSQL13.SQL2016\MSSQL
Collation	SQL_Latin1_General_CP1_CI_AS

Server Settings

Property	Value
Default data file path	C:\Program Files\Microsoft SQL Server\MSSQL13.SQL2016\MSSQL\DATA\
Default backup file path	C:\Program Files\Microsoft SQL Server\MSSQL13.SQL2016\MSSQL\Backup
Default log file path	C:\Program Files\Microsoft SQL Server\MSSQL13.SQL2016\MSSQL\DATA\
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	2
Optimize for ad hoc workloads	False

User databases

Databases (1)

- ExamSystem

ExamSystem Database

Database Properties

Property	Value
SQL Server Version	SQL Server 2016
Compatibility Level	SQL Server 2016
Last backup time	02/22/2020
Last log backup time	-
Creation date	Feb 20 2020
Users	4
Database Encryption Enabled	False
Database Encryption Algorithm	None
Database size	16.00 MB
Unallocated space	3.87 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	de0bb0df-40e6-41f1-84f1-e1547cbf9f97
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	YOMNA\Yomna

Files

Name	Type	Size	Maxsize	Autogrowth	File Name
ExamSystem	Data	8.00 MB	unlimited	64.00 MB	C:\Program Files\Microsoft SQL Server\MSSQL13.SQL2016\MSSQL\DATA\ExamSystem.mdf
ExamSystem_log	Log	8.00 MB	2048.00 GB	64.00 MB	C:\Program Files\Microsoft SQL Server\MSSQL13.SQL2016\MSSQL\DA

					TA\ExamSystem_log.ldf

Tables

Objects

Name
dbo.Exams *- Exams table has information of the randomly generated exam (ID, date) and ID of the subject of the exam (foreign key)*
dbo.Exams_Questions *- The table represents the relation between each generated Exam and the random 10 questions in it with the answers of these questions* *- The Exam ID is unique (only for one student) so exam ID and student ID are related in another table (Exams_-Students) and here only the exam ID is used with its answers*
dbo.Exams_Students *- The table represents the relation between each random generated exam and the (only) student who has taken this exam* *- An exam can be solved by ONLY ONE student, while the student can take multiple exams (even per subject)*
dbo.Instructors *Table having the information (ID, name) of the instructors*
dbo.mcqQuestions
dbo.Questions *- Table of the available questions in all subjects with forgein key specifying the subject of every question.* *- Also with type of each question (mcq or True/False), its weight of marks (mcq:2 marks, true/false: 1 mark), the question's statement itself, its ID and its model answer*
dbo.Students *- Students' information (ID, first name, last name) with foreign key representing the track ID in which each student is enrolled in* *(The student can NOT enroll in more than one track at the same time)*
dbo.Subjects *- Subjects Information (ID, name) with foreign key representing the instructor of the subject* *- A subject may be repeated in different tracks, so the relation between subjects and tracks is many-to-many represented in another table (Subjects_tracks)*
dbo.Subjects_tracks *- A subject may be repeated in different tracks, so the table represents the track(s) in which each subject is related to* *- Track has many subjects*
dbo.tfQuestions
dbo.Topics *- The tabe represents the topics (Topic Id, name) in each subject*
dbo.Tracks *- Tracks Information (ID, name)*

[dbo].[Exams]

MS_Description

- Exams table has information of the randomly generated exam (ID, date) and ID of the subject of the exam (foreign key)

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	13
Created	1:21:45 AM 28 February, 2020
Last Modified	1:08:32 PM 28 February, 2020

Columns

Key	Name	Data Type	Computed	Max Length (Bytes)	Nullability	Identity
PK C	e_id	int		4	NOT NULL	100 - 1
FK	subj_id	int		4	NOT NULL	
	e_date	nvarchar(4000)	True	8000	NULL allowed	

Computed columns

Name	Column definition
e_date	(format(getdate(),'dd-MM-yyyy'))

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Exams_Su__3E2ED64AEB3914E9	e_id	True

Foreign Keys

Name	Columns
e_subj_fk	subj_id->[dbo].[Subjects].[subj_id]

SQL Script

```
CREATE TABLE [dbo].[Exams]
```

```
(
[e_id] [int] NOT NULL IDENTITY(100, 1),
[subj_id] [int] NOT NULL,
[e_date] AS (format(getdate(),'dd-MM-yyyy'))
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Exams] ADD CONSTRAINT [PK__Exams_Su__3E2ED64AEB3914E9] PRIMARY KEY
CLUSTERED  ([e_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Exams] ADD CONSTRAINT [e_subj_fk] FOREIGN KEY ([subj_id]) REFERENCES
[dbo].[Subjects] ([subj_id])
GO
EXEC sp_addextendedproperty N'MS_Description', N'- Exams table has information of the
randomly generated exam (ID, date) and ID of the subject of the exam (foreign key)',
'SCHEMA', N'dbo', 'TABLE', N'Exams', NULL, NULL
GO
```

Uses

[dbo].[Subjects]

Used By

[dbo].[Exams_Questions]
[dbo].[Exams_Students]
[dbo].[ExamGeneration]
[dbo].[getGrade]
[dbo].[selectExams]

[dbo].[Exams_Questions]

MS_Description

- The table represents the relation between each generated Exam and the random 10 questions in it with the answers of these questions

- The Exam ID is unique (only for one student) so exam ID and student ID are related in another table (Exams_Students) and here only the exam ID is used with its answers

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	100
Created	10:29:22 PM 20 February, 2020
Last Modified	1:21:46 AM 28 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK C FK	e_id	int	4	NOT NULL
PK C FK	q_id	int	4	NOT NULL
	q_ans	varchar(5)	5	NULL allowed

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Exams_Qu__2DFB4D7BFB712732	e_id, q_id	True

Foreign Keys

Name	Columns
eq_e_fk	e_id->[dbo].[Exams].[e_id]
eq_q_fk	q_id->[dbo].[Questions].[q_id]

SQL Script

```
CREATE TABLE [dbo].[Exams_Questions]
```

```
(
[e_id] [int] NOT NULL,
[q_id] [int] NOT NULL,
[q_ans] [varchar] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Exams_Questions] ADD CONSTRAINT [PK__Exams_Qu__2DFB4D7BFB712732]
PRIMARY KEY CLUSTERED  ([e_id], [q_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Exams_Questions] ADD CONSTRAINT [eq_e_fk] FOREIGN KEY ([e_id])
REFERENCES [dbo].[Exams] ([e_id])
GO
ALTER TABLE [dbo].[Exams_Questions] ADD CONSTRAINT [eq_q_fk] FOREIGN KEY ([q_id])
REFERENCES [dbo].[Questions] ([q_id])
GO
EXEC sp_addextendedproperty N'MS_Description', N'- The table represents the relation
between each generated Exam and the random 10 questions in it with the answers of these
questions


- The Exam ID is unique (only for one student) so exam ID and student ID are related in
another table (Exams_Students) and here only the exam ID is used with its answers',
'SCHEMA', N'dbo', 'TABLE', N'Exams_Questions', NULL, NULL
GO
```

Uses

[dbo].[Exams]
[dbo].[Questions]

Used By

[dbo].[DeleteFromExam_QuesTable]
[dbo].[ExamAnswers]
[dbo].[ExamCorrection]
[dbo].[ExamGeneration]
[dbo].[ExamQuest]
[dbo].[insertE_St]
[dbo].[InsertExam_QuesTable]
[dbo].[InsertExams_QuestionsTable]
[dbo].[report6_proc]
[dbo].[selectExam_QuesTable]
[dbo].[UpdatExam_QuesTable]

[dbo].[Exams_Students]

MS_Description

- The table represents the relation between each random generated exam and the (only) student who has taken this exam

- An exam can be solved by ONLY ONE student, while the student can take multiple exams (even per subject)

Properties

Property	Value
Row Count (~)	7
Created	10:29:22 PM 20 February, 2020
Last Modified	1:21:46 AM 28 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK C FK	e_id	int	4	NOT NULL
FK	st_id	int	4	NULL allowed
	grade_percentage	int	4	NULL allowed

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Exams_St__3E2ED64AEE0EFFF2	e_id	True

Foreign Keys

Name	Columns
e_fk	e_id->[dbo].[Exams].[e_id]
st_fk	st_id->[dbo].[Students].[st_id]

SQL Script

```
CREATE TABLE [dbo].[Exams_Students]
(
[e_id] [int] NOT NULL,
[st_id] [int] NULL,
[grade_percentage] [int] NULL
```

```
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Exams_Students] ADD CONSTRAINT [PK__Exams_St__3E2ED64AEE0EFFF2]
PRIMARY KEY CLUSTERED  ([e_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Exams_Students] ADD CONSTRAINT [e_fk] FOREIGN KEY ([e_id])
REFERENCES [dbo].[Exams] ([e_id])
GO
ALTER TABLE [dbo].[Exams_Students] ADD CONSTRAINT [st_fk] FOREIGN KEY ([st_id])
REFERENCES [dbo].[Students] ([st_id])
GO
EXEC sp_addextendedproperty N'MS_Description', N'- The table represents the relation
between each random generated exam and the (only) student who has taken this exam


- An exam can be solved by ONLY ONE student, while the student can take multiple exams
(even per subject)', 'SCHEMA', N'dbo', 'TABLE', N'Exams_Students', NULL, NULL
GO
```

Uses

[dbo].[Exams]
[dbo].[Students]

Used By

[dbo].[ExamAnswers]
[dbo].[ExamCorrection]
[dbo].[getGrade]
[dbo].[insertE_St]
[dbo].[report6_2_proc]
[dbo].[report6_proc]
[dbo].[selectE_St]
[dbo].[updateE_St]

[dbo].[Instructors]

MS_Description

Table having the information (ID, name) of the instructors

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	3
Created	4:44:55 PM 22 February, 2020
Last Modified	10:26:49 PM 26 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK	instr_id	int	4	NOT NULL
	instr_name	varchar(10)	10	NULL allowed

Indexes

Key	Name	Key Columns	Unique
PK	PK_Instructors	instr_id	True

SQL Script

```
CREATE TABLE [dbo].[Instructors]
(
[instr_id] [int] NOT NULL,
[instr_name] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Instructors] ADD CONSTRAINT [PK_Instructors] PRIMARY KEY CLUSTERED
([instr_id]) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'Table having the information (ID,
name) of the instructors ', 'SCHEMA', N'dbo', 'TABLE', N'Instructors', NULL, NULL
GO
```

Used By

[dbo].[Subjects]
[dbo].[deleteInstr]
[dbo].[getinstructor]
[dbo].[insertInstr]
[dbo].[selectInstr]
[dbo].[updateInstr]

[dbo].[mcqQuestions]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	41
Created	2:41:10 AM 26 February, 2020
Last Modified	2:41:11 AM 26 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK FK	q_id	int	4	NOT NULL
	choiceA	varchar(100)	100	NULL allowed
	choiceB	varchar(100)	100	NULL allowed
	choiceC	varchar(100)	100	NULL allowed
	choiceD	varchar(100)	100	NULL allowed

Indexes

Key	Name	Key Columns	Unique
PK	PK__mcqQuest__3D59B310DE6E4E64	q_id	True

Foreign Keys

Name	Columns
mcq_q_fk	q_id->[dbo].[Questions].[q_id]

SQL Script

```
CREATE TABLE [dbo].[mcqQuestions]
(
[q_id] [int] NOT NULL,
[choiceA] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[choiceB] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[choiceC] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[choiceD] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
```

```
GO
ALTER TABLE [dbo].[mcqQuestions] ADD CONSTRAINT [PK__mcqQuest__3D59B310DE6E4E64]
PRIMARY KEY CLUSTERED  ([q_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[mcqQuestions] ADD CONSTRAINT [mcq_q_fk] FOREIGN KEY ([q_id])
REFERENCES [dbo].[Questions] ([q_id])
GO
```

Uses

[dbo].[Questions]

Used By

[dbo].[DeletemcqQuestions]
[dbo].[ExamQuest]
[dbo].[InsertIntomcqQuestions]
[dbo].[SelectmcqQuestions]
[dbo].[UpdatemcqQuestions]

[dbo].[Questions]

MS_Description

- Table of the available questions in all subjects with forgein key specifying the subject of every question.

- Also with type of each question (mcq or True/False), its weight of marks (mcq:2 marks, true/false: 1 mark), the question's statement itself, its ID and its model answer

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	52
Created	10:27:20 PM 20 February, 2020
Last Modified	10:30:42 PM 26 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK C	q_id	int	4	NOT NULL
	q_statement	varchar(150)	150	NULL allowed
	q_modelAnswer	varchar(5)	5	NULL allowed
	q_weight	int	4	NULL allowed
	q_type	varchar(5)	5	NULL allowed
FK	subj_id	int	4	NULL allowed

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Question__3D59B3102C6FE6D3	q_id	True

Foreign Keys

Name	Columns
q_subj_fk	subj_id->[dbo].[Subjects].[subj_id]

SQL Script

```
CREATE TABLE [dbo].[Questions]
```

```
(
[q_id] [int] NOT NULL,
[q_statement] [varchar] (150) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[q_modelAnswer] [varchar] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[q_weight] [int] NULL,
[q_type] [varchar] (5) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[subj_id] [int] NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Questions] ADD CONSTRAINT [PK__Question__3D59B3102C6FE6D3] PRIMARY
KEY CLUSTERED  ([q_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Questions] ADD CONSTRAINT [q_subj_fk] FOREIGN KEY ([subj_id])
REFERENCES [dbo].[Subjects] ([subj_id])
GO
EXEC sp_addextendedproperty N'MS_Description', N'- Table of the available questions in
all subjects with forgein key specifying the subject of every question.


- Also with type of each question (mcq or True/False), its weight of marks (mcq:2
marks, true/false: 1 mark), the question''s statement itself, its ID and its model
answer', 'SCHEMA', N'dbo', 'TABLE', N'Questions', NULL, NULL
GO
```

Uses

[dbo].[Subjects]

Used By

[dbo].[Exams_Questions]
[dbo].[mcqQuestions]
[dbo].[tfQuestions]
[dbo].[DeleteFromQuestions]
[dbo].[ExamCorrection]
[dbo].[ExamGeneration]
[dbo].[ExamQuest]
[dbo].[InsertIntoQuestions]
[dbo].[SelectQuestions]
[dbo].[UpdateQuestions]

[dbo].[Students]

MS_Description

- Students' information (ID, first name, last name) with foreign key representing the track ID in which each student is enrolled in

(The student can NOT enroll in more than one track at the same time)

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	5
Created	10:27:20 PM 20 February, 2020
Last Modified	10:33:08 PM 26 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK C	st_id	int	4	NOT NULL
	st_fname	varchar(10)	10	NULL allowed
	st_lname	varchar(10)	10	NULL allowed
FK	t_id	int	4	NULL allowed

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Students__A85E81CF77159F95	st_id	True

Foreign Keys

Name	Columns
t_st_fk	t_id->[dbo].[Tracks].[t_id]

SQL Script

```
CREATE TABLE [dbo].[Students]
(
[st_id] [int] NOT NULL,
[st_fname] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[st_lname] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
```

```
[t_id] [int] NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Students] ADD CONSTRAINT [PK__Students__A85E81CF77159F95] PRIMARY KEY CLUSTERED  ([st_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Students] ADD CONSTRAINT [t_st_fk] FOREIGN KEY ([t_id]) REFERENCES [dbo].[Tracks] ([t_id])
GO
EXEC sp_addextendedproperty N'MS_Description', N'- Students'' information (ID, first name, last name) with foreign key representing the track ID in which each student is enrolled in
(The student can NOT enroll in more than one track at the same time)', 'SCHEMA', N'dbo', 'TABLE', N'Students', NULL, NULL
GO
```

Uses

[dbo].[Tracks]

Used By

[dbo].[Exams_Students]
[dbo].[DeleteStudents]
[dbo].[getGrade]
[dbo].[getinstructor]
[dbo].[getstudbydept]
[dbo].[insertE_St]
[dbo].[InsertIntoStudents]
[dbo].[report6_proc]
[dbo].[SelectStudents]
[dbo].[UpdateStudentds]

[dbo].[Subjects]

MS_Description

- Subjects Information (ID, name) with foreign key representing the instructor of the subject

- A subject may be repeated in different tracks, so the relation between subjects and tracks is many-to-many represented in another table (Subjects_tracks)

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	3
Created	4:54:34 PM 22 February, 2020
Last Modified	1:21:45 AM 28 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK C	subj_id	int	4	NOT NULL
	subj_name	varchar(10)	10	NULL allowed
FK	instr_id	int	4	NOT NULL

Indexes

Key	Name	Key Columns	Unique
PK C	PK__Subjects__C44184630B7E5126	subj_id	True

Foreign Keys

Name	Columns
FK_Subjects_Instructors	instr_id->[dbo].[Instructors].[instr_id]

SQL Script

```
CREATE TABLE [dbo].[Subjects]
(
[subj_id] [int] NOT NULL,
[subj_name] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[instr_id] [int] NOT NULL
```

```
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Subjects] ADD CONSTRAINT [PK__Subjects__C44184630B7E5126] PRIMARY
KEY CLUSTERED  ([subj_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Subjects] ADD CONSTRAINT [FK_Subjects_Instructors] FOREIGN KEY
([instr_id]) REFERENCES [dbo].[Instructors] ([instr_id])
GO
EXEC sp_addextendedproperty N'MS_Description', N'- Subjects Information (ID, name) with
foreign key representing the instructor of the subject


- A subject may be repeated in different tracks, so the relation between subjects and
tracks is many-to-many represented in another table (Subjects_tracks)', 'SCHEMA',
N'dbo', 'TABLE', N'Subjects', NULL, NULL
GO
```

Uses

[dbo].[Instructors]

Used By

[dbo].[Exams]
[dbo].[Questions]
[dbo].[Subjects_tracks]
[dbo].[Topics]
[dbo].[CourseTopic]
[dbo].[ExamGeneration]
[dbo].[getGrade]
[dbo].[getinstructor]
[dbo].[insertTopic]
[dbo].[updateTopic]

[dbo].[Subjects_tracks]

MS_Description

- A subject may be repeated in different tracks, so the table represents the track(s) in which each subject is related to

- Track has many subjects

Properties

Property	Value
Row Count (~)	4
Created	5:50:36 PM 25 February, 2020
Last Modified	10:38:02 PM 26 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK C FK	subj_id	int	4	NOT NULL
PK C FK	t_id	int	4	NOT NULL

Indexes

Key	Name	Key Columns	Unique
PK C	PK_subjects_tracks	subj_id, t_id	True

Foreign Keys

Name	Columns
FK_subjects_tracks_subjects	subj_id->[dbo].[Subjects].[subj_id]
FK_subjects_tracks_tracks	t_id->[dbo].[Tracks].[t_id]

SQL Script

```
CREATE TABLE [dbo].[Subjects_tracks]
(
[subj_id] [int] NOT NULL,
[t_id] [int] NOT NULL
) ON [PRIMARY]
```

```
GO
ALTER TABLE [dbo].[Subjects_tracks] ADD CONSTRAINT [PK_subjects_tracks] PRIMARY KEY
CLUSTERED  ([subj_id], [t_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Subjects_tracks] ADD CONSTRAINT [FK_subjects_tracks_subjects]
FOREIGN KEY ([subj_id]) REFERENCES [dbo].[Subjects] ([subj_id])
GO
ALTER TABLE [dbo].[Subjects_tracks] ADD CONSTRAINT [FK_subjects_tracks_tracks] FOREIGN
KEY ([t_id]) REFERENCES [dbo].[Tracks] ([t_id])
GO
EXEC sp_addextendedproperty N'MS_Description', N'- A subject may be repeated in
different tracks, so the table represents the track(s) in which each subject is related
to


- Track has many subjects', 'SCHEMA', N'dbo', 'TABLE', N'Subjects_tracks', NULL, NULL
GO
```

Uses

[dbo].[Subjects]
[dbo].[Tracks]

Used By

[dbo].[getinstructor]
[dbo].[selectSubj_Track]

[dbo].[tfQuestions]

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	10
Created	10:27:20 PM 20 February, 2020
Last Modified	10:27:20 PM 20 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK FK	q_id	int	4	NOT NULL
	choiceA	varchar(6)	6	NULL allowed
	choiceB	varchar(6)	6	NULL allowed

Indexes

Key	Name	Key Columns	Unique
PK	PK__tfQuesti__3D59B3104FBA1CFB	q_id	True

Foreign Keys

Name	Columns
tf_q_fk	q_id->[dbo].[Questions].[q_id]

SQL Script

```
CREATE TABLE [dbo].[tfQuestions]
(
[q_id] [int] NOT NULL,
[choiceA] [varchar] (6) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[choiceB] [varchar] (6) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[tfQuestions] ADD CONSTRAINT [PK__tfQuesti__3D59B3104FBA1CFB] PRIMARY
KEY CLUSTERED  ([q_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[tfQuestions] ADD CONSTRAINT [tf_q_fk] FOREIGN KEY ([q_id])
```

```
REFERENCES [dbo].[Questions] ([q_id])
GO
```

Uses

[dbo].[Questions]

[dbo].[Topics]

MS_Description

- The tabe represents the topics (Topic Id, name) in each subject

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	2
Created	5:02:13 PM 22 February, 2020
Last Modified	10:39:04 PM 26 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK	top_id	int	4	NOT NULL
	top_name	varchar(10)	10	NULL allowed
FK	subj_id	int	4	NULL allowed

Indexes

Key	Name	Key Columns	Unique
PK	PK_Topics	top_id	True

Foreign Keys

Name	Columns
FK_topic_subject	subj_id->[dbo].[Subjects].[subj_id]

SQL Script

```
CREATE TABLE [dbo].[Topics]
(
[top_id] [int] NOT NULL,
[top_name] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[subj_id] [int] NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Topics] ADD CONSTRAINT [PK_Topics] PRIMARY KEY CLUSTERED  ([top_id])
```

```
ON [PRIMARY]
GO
ALTER TABLE [dbo].[Topics] ADD CONSTRAINT [FK_topic_subject] FOREIGN KEY ([subj_id])
REFERENCES [dbo].[Subjects] ([subj_id])
GO
EXEC sp_addextendedproperty N'MS_Description', N'- The tabe represents the topics
(Topic Id, name) in each subject', 'SCHEMA', N'dbo', 'TABLE', N'Topics', NULL, NULL
GO
```

Uses

[dbo].[Subjects]

Used By

[dbo].[CourseTopic]
[dbo].[deleteTopic]
[dbo].[insertTopic]
[dbo].[selectTopic]
[dbo].[updateTopic]

[dbo].[Tracks]

MS_Description

- Tracks Information (ID, name)

Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	2
Created	10:27:20 PM 20 February, 2020
Last Modified	10:39:44 PM 26 February, 2020

Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PK	t_id	int	4	NOT NULL
	t_name	varchar(10)	10	NULL allowed

Indexes

Key	Name	Key Columns	Unique
PK	PK__Tracks__E579775FF2BEF0C6	t_id	True

SQL Script

```
CREATE TABLE [dbo].[Tracks]
(
[t_id] [int] NOT NULL,
[t_name] [varchar] (10) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Tracks] ADD CONSTRAINT [PK__Tracks__E579775FF2BEF0C6] PRIMARY KEY
CLUSTERED  ([t_id]) ON [PRIMARY]
GO
EXEC sp_addextendedproperty N'MS_Description', N'- Tracks Information (ID, name)',
'SCHEMA', N'dbo', 'TABLE', N'Tracks', NULL, NULL
GO
```

Used By

[dbo].[Students]
[dbo].[Subjects_tracks]
[dbo].[DeleteTracks]
[dbo].[InsertIntoTracks]
[dbo].[SelectTracks]
[dbo].[UpdateTracks]

Stored Procedures

Objects

Name
dbo.CourseTopic
dbo.DeleteFromExam_QuesTable
dbo.DeleteFromQuestions
dbo.deleteInstr
dbo.DeletemcqQuestions
dbo.DeleteStudents
dbo.deleteTopic
dbo.DeleteTracks
dbo.ExamAnswers
dbo.ExamCorrection
dbo.ExamGeneration
dbo.ExamQuest
dbo.getGrade
dbo.getinstructor
dbo.getstudbydept
dbo.insertE_St
dbo.InsertExam_QuesTable
dbo.InsertExams_QuestionsTable
dbo.insertInstr
dbo.InsertIntomcqQuestions
dbo.InsertIntoQuestions
dbo.InsertIntoStudents
dbo.InsertIntoTracks
dbo.insertTopic
dbo.report6_2_proc
dbo.report6_proc
dbo.selectE_St
dbo.selectExam_QuesTable
dbo.selectExams
dbo.selectInstr
dbo.SelectmcqQuestions
dbo.SelectQuestions
dbo.SelectStudents
dbo.selectSubj_Track

dbo.selectTopic
dbo.SelectTracks
dbo.updateE_St
dbo.updateInstr
dbo.UpdatemcqQuestions
dbo.UpdateQuestions
dbo.UpdateStudentds
dbo.updateTopic
dbo.UpdateTracks
dbo.UpdatExam_QuesTable

[dbo].[CourseTopic]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE proc [dbo].[CourseTopic] @id int
As
select Topics.subj_id ,subj_name, top_name
from [dbo].[Topics],[dbo].[Subjects]
where [dbo].[Topics].[subj_id] = [dbo].[Subjects].[subj_id] and
 [dbo].[Topics].[subj_id] = @id
GO
```

Uses

[dbo].[Subjects]
[dbo].[Topics]

[dbo].[DeleteFromExam_QuesTable]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE proc [dbo].[DeleteFromExam_QuesTable] @e_id int
As
begin
Delete  from Exams_Questions
 where  e_id =@e_id
end


GO
```

Uses

[dbo].[Exams_Questions]

[dbo].[DeleteFromQuestions]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
create proc [dbo].[DeleteFromQuestions] @q_id int
As
begin
Delete  from Questions
 where  q_id =@q_id
end
GO
```

Uses

[dbo].[Questions]

[dbo].[deleteInstr]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE PROC [dbo].[deleteInstr] @id INT
AS
DELETE FROM dbo.Instructors WHERE instr_id=@id
GO
```

Uses

[dbo].[Instructors]

[dbo].[DeletemcqQuestions]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
create proc [dbo].[DeletemcqQuestions] @q_id int
As
begin
Delete  from mcqQuestions
 where  q_id =@q_id
end
GO
```

Uses

[dbo].[mcqQuestions]

[dbo].[DeleteStudents]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
--exec  UpdateStudentds 6, nour,mostafa,2
create proc [dbo].[DeleteStudents] @st_id int
As
begin
Delete  from Students
 where  st_id =@st_id
end
GO
```

Uses

[dbo].[Students]

[dbo].[deleteTopic]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE PROC [dbo].[deleteTopic] @id INT
AS
DELETE FROM dbo.Topics WHERE top_id=@id
GO
```

Uses

[dbo].[Topics]

[dbo].[DeleteTracks]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
--exec  UpdateTracks 4 , mobile
create proc [dbo].[DeleteTracks] @t_id int
As
begin
Delete  from Tracks
 where  t_id =@t_id
end
GO
```

Uses

[dbo].[Tracks]

[dbo].[ExamAnswers]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@e_id	int	4
@st_id	int	4
@a1	varchar(5)	5
@a2	varchar(5)	5
@a3	varchar(5)	5
@a4	varchar(5)	5
@a5	varchar(5)	5
@a6	varchar(5)	5
@a7	varchar(5)	5
@a8	varchar(5)	5
@a9	varchar(5)	5
@a10	varchar(5)	5

SQL Script

```
CREATE proc [dbo].[ExamAnswers] @e_id int, @st_id int, @a1 varchar(5), @a2 varchar(5),
@a3 varchar(5),
@a4 varchar(5), @a5 varchar(5), @a6 varchar(5), @a7 varchar(5), @a8 varchar(5),
@a9 varchar(5), @a10 varchar(5)
As
insert into Exams_Students(e_id, st_id) values(@e_id, @st_id)

declare @temp table(e_id int,q_id int,q_ans varchar(5),rn int)
insert into @temp(e_id,q_id,q_ans,rn)
(select e_id,q_id,q_ans, ROW_NUMBER() over (order by e_id) as rn
from Exams_Questions
where e_id=@e_id)

update @temp set q_ans=@a1 where e_id=@e_id and rn = 1
update @temp set q_ans=@a2 where e_id=@e_id and rn = 2
update @temp set q_ans=@a3 where e_id=@e_id and rn = 3
```

```
update @temp set q_ans=@a4 where e_id=@e_id and rn = 4
update @temp set q_ans=@a5 where e_id=@e_id and rn = 5
update @temp set q_ans=@a6 where e_id=@e_id and rn = 6
update @temp set q_ans=@a7 where e_id=@e_id and rn = 7
update @temp set q_ans=@a8 where e_id=@e_id and rn = 8
update @temp set q_ans=@a9 where e_id=@e_id and rn = 9
update @temp set q_ans=@a10 where e_id=@e_id and rn = 10

delete from Exams_Questions where e_id=@e_id
insert into Exams_Questions(e_id,q_id,q_ans)
(select e_id,q_id,q_ans
from @temp
where e_id=@e_id)
GO
```

Uses

[dbo].[Exams_Questions]
[dbo].[Exams_Students]

[dbo].[ExamCorrection]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE proc [dbo].[ExamCorrection] @e_id int
AS
Begin
declare @t table (result varchar(5),w int, Qtype varchar(5));
insert into @t
select
   case
      when  E.q_ans is NULL and Q.q_modelAnswer is NULL then 'true'
      when E.q_ans=Q.q_modelAnswer then 'true'
      else 'false'
   end as result, Q.q_weight, Q.q_type
from Exams_Questions E
inner join Questions Q
on E.q_id=Q.q_id
where E.e_id=@e_id
declare t_cur cursor
    for select * from @t
    for read only
declare @count int=0;
declare @res varchar(5)
declare @w int
declare @QType varchar(5)
declare @total int=0
open t_cur
fetch t_cur into @res,@w,@QType
begin
    While @@fetch_status=0
    begin
        if @res='true'
            begin
                set @count=@count+@w
```

```
            end
        if @QType = 'mcq'
            begin
                set @total=@total+2
            end
        else if @QType = 'tf'
            begin
                set @total=@total+1
            end
            fetch t_cur into @res ,@w,@QType
    end
end
select * from @t
select  @count
select  @total
set @count = (CAST(@count as float)/@total)*100 --calculate the grade_percentage
percentage
update Exams_Students set grade_percentage=CAST(@count as int) where e_id=@e_id
--and st_id=@st_id
close t_cur
deallocate t_cur
end


--execute ExamCorrection 106

GO
```

Uses

[dbo].[Exams_Questions]
[dbo].[Exams_Students]
[dbo].[Questions]

[dbo].[ExamGeneration]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@Subj_name	varchar(10)	10
@TF	int	4
@mcq	int	4

SQL Script

```
CREATE proc [dbo].[ExamGeneration] @Subj_name varchar(10),@TF int ,@mcq int
AS
insert into Exams(subj_id)
select subj_id
from Subjects
where subj_name = @Subj_name

declare @lastRow int= IDENT_CURRENT ('Exams')

--InsertExams_QuestionsTable
insert into Exams_Questions(e_id,q_id)
select top(@TF) @lastRow,q.q_id
from Questions q, Subjects subj
where q.q_type = 'tf' and q.subj_id=subj.subj_id and subj.subj_name=@Subj_name
order by NEWID()

--InsertExams_QuestionsTable
set @mcq = 10 - @TF --make sure number of questions is not more nor less than 10
insert into Exams_Questions(e_id,q_id)
select top(@mcq) @lastRow,q.q_id
from Questions q, Subjects subj
where q.q_type = 'mcq' and q.subj_id=subj.subj_id and subj.subj_name=@Subj_name
order by NEWID()
GO
```

Uses

[dbo].[Exams]

[dbo].[Exams_Questions]

[dbo].[Questions]

[dbo].[Subjects]

[dbo].[ExamQuest]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE proc [dbo].[ExamQuest] @id int
As
select eq.q_id , q_statement,choiceA,choiceB,choiceC,choiceD
from Exams_Questions eq inner join  Questions q
on eq.q_id= q.q_id
inner join mcqQuestions mcq
on q.q_id=mcq.q_id

where eq.q_id = q.q_id
and eq.e_id = @id
GO
```

Uses

[dbo].[Exams_Questions]
[dbo].[mcqQuestions]
[dbo].[Questions]

[dbo].[getGrade]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE proc [dbo].[getGrade] @student_id int
as
select st_fname,subj_name ,MAX(grade_percentage) as grade
from Exams_Students Es,Students s,Subjects sub,Exams esub
where es.st_id=@student_id and es.e_id=esub.e_id and es.st_id=s.st_id
and esub.subj_id=sub.subj_id
group by st_fname, subj_name
GO
```

Uses

[dbo].[Exams]
[dbo].[Exams_Students]
[dbo].[Students]
[dbo].[Subjects]

[dbo].[getinstructor]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE proc [dbo].[getinstructor] @instructor_id int
as
select inst.instr_id,inst.instr_Name,sub.subj_name , COUNT(st.st_id) as [Students
Number]
from Instructors inst ,Subjects sub, Students st, Subjects_tracks subT
where inst.instr_id=sub.instr_id and inst.instr_id=@instructor_id and st.t_id=subT.t_id
and sub.subj_id=subt.subj_id
group by inst.instr_id,inst.instr_Name,sub.subj_name
GO
```

Uses

[dbo].[Instructors]
[dbo].[Students]
[dbo].[Subjects]
[dbo].[Subjects_tracks]

[dbo].[getstudbydept]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
create proc [dbo].[getstudbydept] @trackNo int
as
select*from Students
where t_id=@trackNo
GO
```

Uses

[dbo].[Students]

[dbo].[insertE_St]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@eID	int	4
@stID	int	4
@sGrade	int	4

SQL Script

```
CREATE PROC [dbo].[insertE_St] @eID INT, @stID INT, @sGrade INT
AS
IF EXISTS(SELECT st_id FROM dbo.Students WHERE st_id=@stID)
    IF EXISTS(SELECT e_id FROM dbo.Exams_Questions WHERE e_id=@eID)
        INSERT INTO dbo.Exams_Students VALUES(@eID,@stID,@sGrade)
GO
```

Uses

[dbo].[Exams_Questions]
[dbo].[Exams_Students]
[dbo].[Students]

[dbo].[InsertExam_QuesTable]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@e_id	int	4
@q_id	int	4
@q_ans	varchar(5)	5

SQL Script

```
-- stotored procedures to select,insert,update and delete into exam table
CREATE proc [dbo].[InsertExam_QuesTable] @e_id int, @q_id int,@q_ans varchar(5)
As
begin
insert into Exams_Questions(e_id,q_id,q_ans) values (@e_id,@q_id,@q_ans)
end

GO
```

Uses

[dbo].[Exams_Questions]

[dbo].[InsertExams_QuestionsTable]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@t	tableType	max

SQL Script

```
CREATE proc [dbo].[InsertExams_QuestionsTable]  @t tableType readonly
As
--begin
insert into Exams_Questions
select *
from Exams_Questions
GO
```

Uses

[dbo].[Exams_Questions]
[dbo].[tableType]

[dbo].[insertInstr]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@id	int	4
@instName	varchar(10)	10

SQL Script

```
CREATE PROC [dbo].[insertInstr] @id INT, @instName VARCHAR(10)
AS
INSERT INTO dbo.Instructors
VALUES(0,@instName)
GO
```

Uses

[dbo].[Instructors]

[dbo].[InsertIntomcqQuestions]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@q_id	int	4
@choiceA	varchar(50)	50
@choiceB	varchar(50)	50
@choiceC	varchar(50)	50
@choiceD	varchar(50)	50

SQL Script

```
-- stotored procedures to select,insert,update and delete into mcqQuestions table
create proc [dbo].[InsertIntomcqQuestions] @q_id int, @choiceA varchar(50),@choiceB varchar(50),@choiceC varchar(50),@choiceD varchar(50)
As
begin
insert into mcqQuestions(q_id ,choiceA,choiceB,choiceC,choiceD) values (@q_id,@choice-A,@choiceB,@choiceC,@choiceD)
end

GO
```

Uses

[dbo].[mcqQuestions]

[dbo].[InsertIntoQuestions]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@q_id	int	4
@q_statement	varchar(150)	150
@q_modelAnswer	varchar(5)	5
@q_weight	int	4
@q_type	varchar(5)	5
@subj_id	int	4

SQL Script

```
-- stotored procedures to select,insert,update and delete into Questions table
create proc [dbo].[InsertIntoQuestions] @q_id int, @q_statement varchar(150),@q_model-
Answer varchar(5)
,@q_weight int,@q_type varchar(5),@subj_id int
As
begin
insert into Questions (q_id ,q_statement,q_modelAnswer,q_weight,q_type,subj_id) values
(@q_id, @q_statement,@q_modelAnswer,@q_weight,@q_type,@subj_id)
end

GO
```

Uses

[dbo].[Questions]

[dbo].[InsertIntoStudents]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@st_id	int	4
@st_fname	varchar(10)	10
@st_lname	varchar(10)	10
@t_id	int	4

SQL Script

```
-- stotored procedures to select,insert,update and delete into Students table
create proc [dbo].[InsertIntoStudents] @st_id int, @st_fname varchar(10),@st_lname
varchar(10),@t_id int
As
begin
insert into Students(st_id ,st_fname,st_lname,t_id) values
(@st_id,@st_fname,@st_lname,@t_id)
end


--exec InsertIntoStudents  6,Lila,amar,3
GO
```

Uses

[dbo].[Students]

[dbo].[InsertIntoTracks]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@t_id	int	4
@t_name	varchar(10)	10

SQL Script

```
-- stotored procedures to select,insert,update and delete into tracks table
create proc [dbo].[InsertIntoTracks] @t_id int, @t_name varchar(10)
As
begin
insert into Tracks (t_id ,t_name) values (@t_id,@t_name)
end

--exec InsertIntoTracks  4,SA
GO
```

Uses

[dbo].[Tracks]

[dbo].[insertTopic]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@id	int	4
@TopicName	varchar(10)	10
@subjId	int	4

SQL Script

```
CREATE PROC [dbo].[insertTopic] @id INT, @TopicName VARCHAR(10), @subjId INT
AS
IF EXISTS(SELECT subj_id FROM dbo.Subjects WHERE subj_id=@subjId)
    INSERT INTO dbo.Topics VALUES(@id,@TopicName,@subjId)
GO
```

Uses

[dbo].[Subjects]
[dbo].[Topics]

[dbo].[report6_2_proc]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE proc [dbo].[report6_2_proc] @stId int
as
select e_id
from Exams_Students
where st_id=@stId
GO
```

Uses

[dbo].[Exams_Students]

[dbo].[report6_proc]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@stId	int	4
@eId	int	4

SQL Script

```
CREATE proc [dbo].[report6_proc] @stId int, @eId int
as
SELECT        Exams_Questions.q_id, Exams_Questions.q_ans, Exams_Students.e_id
FROM            Exams_Questions INNER JOIN
                         Exams_Students ON Exams_Questions.e_id = Exams_Students.e_id
INNER JOIN
                         Students ON Exams_Students.st_id = Students.st_id
WHERE        (Exams_Students.st_id = @stId) AND (Exams_Students.e_id = @eId)
GO
```

Uses

[dbo].[Exams_Questions]
[dbo].[Exams_Students]
[dbo].[Students]

[dbo].[selectE_St]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE PROC [dbo].[selectE_St] @eID INT
AS
SELECT *
FROM dbo.Exams_Students
WHERE e_id=@eID
GO
```

Uses

[dbo].[Exams_Students]

[dbo].[selectExam_QuesTable]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE proc [dbo].[selectExam_QuesTable] @e_id int
As
begin
select q_id,q_ans
 from Exams_Questions
 where  e_id=@e_id
end
GO
```

Uses

[dbo].[Exams_Questions]

[dbo].[selectExams]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE PROC [dbo].[selectExams] @subjID INT
AS
SELECT *
FROM dbo.Exams
WHERE subj_id=@subjID
GO
```

Uses

[dbo].[Exams]

[dbo].[selectInstr]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE PROC [dbo].[selectInstr] @id INT
AS
SELECT *
FROM dbo.Instructors
WHERE instr_id=@id
GO
```

Uses

[dbo].[Instructors]

[dbo].[SelectmcqQuestions]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
create proc [dbo].[SelectmcqQuestions] @q_id int
As
begin
select choiceA,choiceA,choiceC,choiceD
 from mcqQuestions
 where  q_id =@q_id
end
GO
```

Uses

[dbo].[mcqQuestions]

[dbo].[SelectQuestions]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
create proc [dbo].[SelectQuestions] @q_id int
As
begin
select q_statement,q_modelAnswer,q_type,q_weight,subj_id
 from Questions
 where  q_id =@q_id
end
GO
```

Uses

[dbo].[Questions]

[dbo].[SelectStudents]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
create proc [dbo].[SelectStudents] @st_id int
As
begin
select st_fname,st_lname,t_id
 from Students
 where  st_id =@st_id
end
GO
```

Uses

[dbo].[Students]

[dbo].[selectSubj_Track]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE PROC [dbo].[selectSubj_Track] @tID INT
AS
SELECT *
FROM dbo.Subjects_tracks
WHERE t_id=@tID
GO
```

Uses

[dbo].[Subjects_tracks]

[dbo].[selectTopic]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
CREATE PROC [dbo].[selectTopic] @id INT
AS
SELECT *
FROM dbo.Topics
WHERE top_id=@id
GO
```

Uses

[dbo].[Topics]

[dbo].[SelectTracks]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

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

SQL Script

```
create proc [dbo].[SelectTracks] @t_id int
As
begin
select t_name
 from Tracks
 where  t_id =@t_id
end
GO
```

Uses

[dbo].[Tracks]

[dbo].[updateE_St]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@e_ID	int	4
@sGrade	int	4

SQL Script

```
CREATE PROC [dbo].[updateE_St] @e_ID INT, @sGrade INT
AS
UPDATE dbo.Exams_Students SET grade_percentage=@sGrade WHERE e_id=@e_ID
GO
```

Uses

[dbo].[Exams_Students]

[dbo].[updateInstr]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@id	int	4
@instName	varchar(10)	10

SQL Script

```
CREATE PROC [dbo].[updateInstr] @id INT, @instName VARCHAR(10)
AS
UPDATE dbo.Instructors SET instr_name=@instName WHERE instr_id=@id
GO
```

Uses

[dbo].[Instructors]

[dbo].[UpdatemcqQuestions]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@q_id	int	4
@choiceA	varchar(50)	50
@choiceB	varchar(50)	50
@choiceC	varchar(50)	50
@choiceD	varchar(50)	50

SQL Script

```
create proc [dbo].[UpdatemcqQuestions] @q_id int, @choiceA varchar(50),@choiceB
varchar(50),@choiceC varchar(50),@choiceD varchar(50)
As
begin
update  mcqQuestions
set  choiceA =@choiceA,
     choiceB =@choiceB,
     choiceC =@choiceC,
     choiceD =@choiceD
 where  q_id =@q_id
end
GO
```

Uses

[dbo].[mcqQuestions]

[dbo].[UpdateQuestions]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@q_id	int	4
@q_statement	varchar(150)	150
@q_modelAnswer	varchar(5)	5
@q_weight	int	4
@q_type	varchar(5)	5
@subj_id	int	4

SQL Script

```
create proc [dbo].[UpdateQuestions] @q_id int, @q_statement varchar(150),@q_modelAnswer varchar(5)
,@q_weight int,@q_type varchar(5),@subj_id int
As
begin
update  Questions
set  q_statement=@q_statement,
     q_modelAnswer =@q_modelAnswer,
     q_type=@q_type,
     q_weight=@q_weight,
     subj_id=@subj_id
 where  q_id =@q_id
end
GO
```

Uses

[dbo].[Questions]

[dbo].[UpdateStudentds]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@st_id	int	4
@st_fname	varchar(10)	10
@st_lname	varchar(10)	10
@t_id	int	4

SQL Script

```
--exec  SelectStudents 6
create proc [dbo].[UpdateStudentds] @st_id int,@st_fname varchar(10),@st_lname
varchar(10), @t_id int
As
begin
update  Students
set st_fname =@st_fname,
     st_lname =@st_lname,
     t_id =@t_id
 where  st_id =@st_id
end
GO
```

Uses

[dbo].[Students]

[dbo].[updateTopic]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@id	int	4
@TopicName	varchar(10)	10
@subjId	int	4

SQL Script

```
CREATE PROC [dbo].[updateTopic] @id INT, @TopicName VARCHAR(10), @subjId INT
AS
IF EXISTS(SELECT subj_id FROM dbo.Subjects WHERE subj_id=@subjId)
    UPDATE dbo.Topics SET top_name=@TopicName,subj_id=@subjId WHERE top_id=@id
GO
```

Uses

[dbo].[Subjects]
[dbo].[Topics]

[dbo].[UpdateTracks]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@t_id	int	4
@t_name	varchar(10)	10

SQL Script

```
--exec  SelectTracks 4
create proc [dbo].[UpdateTracks] @t_id int,@t_name varchar(10)
As
begin
update  Tracks
set t_name =@t_name
 where  t_id =@t_id
end
GO
```

Uses

[dbo].[Tracks]

[dbo].[UpdatExam_QuesTable]

Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

Parameters

Name	Data Type	Max Length (Bytes)
@e_id	int	4
@q_id	int	4
@q_ans	varchar(5)	5

SQL Script

```
CREATE proc [dbo].[UpdatExam_QuesTable] @e_id int,@q_id int,
@q_ans varchar(5)
As
begin
update  Exams_Questions
set @q_id =@q_id,
       q_ans=@q_ans
 where  e_id =@e_id
end
GO
```

Uses

[dbo].[Exams_Questions]

User-Defined Table Types

Objects

Name
dbo.tableType

[dbo].[tableType]

Properties

Property	Value
Heap	True

Columns

Name	Data Type	Max Length (Bytes)	Nullability
e_id	int	4	NULL allowed
q_id	int	4	NULL allowed

SQL Script

```
CREATE TYPE [dbo].[tableType] AS TABLE
(
[e_id] [int] NULL,
[q_id] [int] NULL
)
GO
```

Used By

[dbo].[InsertExams_QuestionsTable]

Database Roles

Objects

Name
db_accessadmin
db_backupoperator
db_datareader
db_datawriter
db_ddladmin
db_denydatareader
db_denydatawriter
db_owner
db_securityadmin
public

db_accessadmin

Properties

Property	Value
Owner	dbo

db_backupoperator

Properties

Property	Value
Owner	dbo

db_datareader

Properties

Property	Value
Owner	dbo

db_datawriter

Properties

Property	Value
Owner	dbo

db_ddladmin

Properties

Property	Value
Owner	dbo

db_denydatareader

Properties

Property	Value
Owner	dbo

db_denydatawriter

Properties

Property	Value
Owner	dbo

db_owner

Properties

Property	Value
Owner	dbo

db_securityadmin

Properties

Property	Value
Owner	dbo

public

Properties

Property	Value
Owner	dbo