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Description automatically generated

**ExaminationSystemDB**

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 ***(local)\SQLEXPRESS***

**Databases (1)**

*  [ExaminationSystemDB](#page7)

**Server Settings**

|  |  |
| --- | --- |
| **Property** | **Value** |
|  |  |
| Default data file path | C:\Program Files\Microsoft SQL Server\MSSQL16.SQLEXPRESS\MSSQL\DATA\ |
|  |  |
| Default backup file path | C:\Program Files\Microsoft SQL Server\MSSQL16.SQLEXPRESS\MSSQL\Backup |
|  |  |
| Default log file path | C:\Program Files\Microsoft SQL Server\MSSQL16.SQLEXPRESS\MSSQL\DATA\ |
|  |  |
| Recovery Interval (minutes) | 0 |
|  |  |
| Default index fill factor | 0 |
|  |  |
| Default backup media retention | 0 |
|  |  |



**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 databases**

**Databases (1)**

*  [ExaminationSystemDB](#page7)

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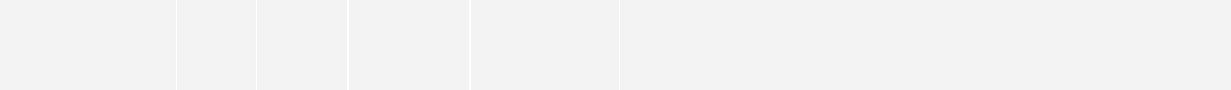
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 **ExaminationSystemDB Database**

**Files**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Type** | **Size** | **Maxsize** | **Autogrowth** | **File Name** |
|  |  |  |  |  |  |
| Examination- | Data | 72.00 | unlimited | 64.00 MB | C:\Program Files\Microsoft SQL |
| SystemDB |  | MB |  |  | Server\MSSQL16.SQLEXPRESS\MSSQL\DATA\Examination- |
|  |  |  |  |  | SystemDB.mdf |
|  |  |  |  |  |  |
| Examination- | Log | 72.00 | 2048.00 | 64.00 MB | C:\Program Files\Microsoft SQL |
| SystemDB\_log |  | MB | GB |  | Server\MSSQL16.SQLEXPRESS\MSSQL\DATA\Examination- |
|  |  |  |  |  | SystemDB\_log.ldf |
|  |  |  |  |  |  |



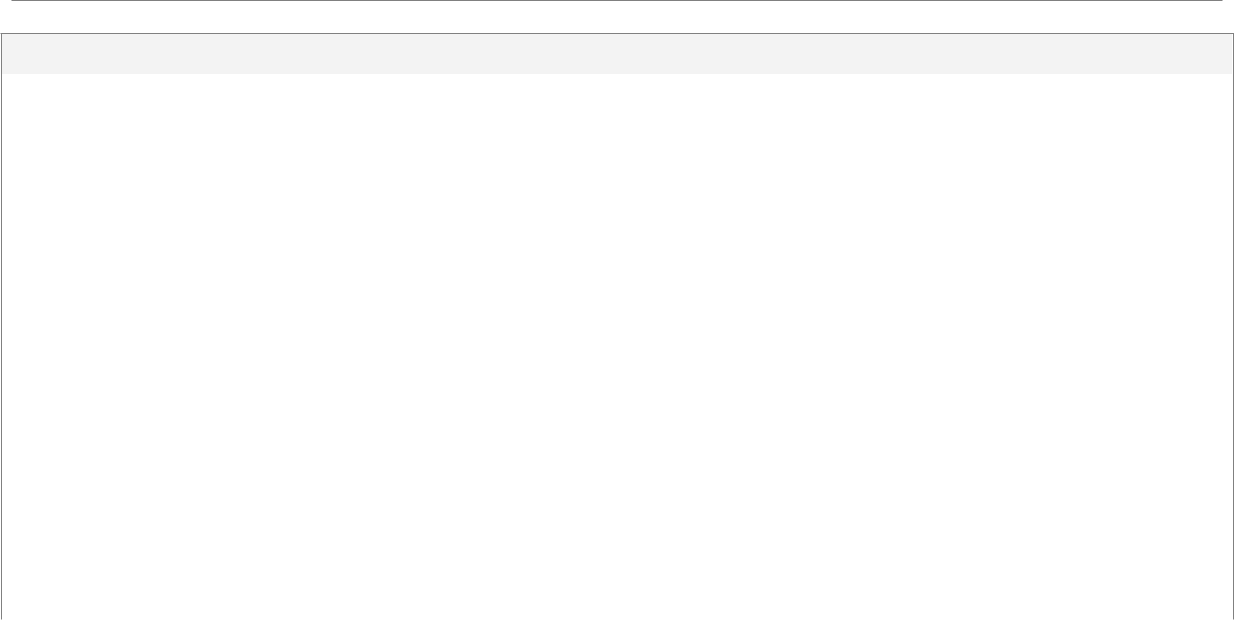
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 ***Tables***

**Objects**



**Name**

[dbo.Answers](#page9)



[dbo.Choices](#page11)

[dbo.Courses](#page13)



[dbo.Courses\_Instructor](#page15)

[dbo.Departments](#page17)



[dbo.Exam\_Questions](#page18)

[dbo.Exams](#page20)



[dbo.Instructors](#page22)

[dbo.Questions](#page24)



[dbo.Student\_Answer\_In\_Exam](#page26)

[dbo.Student\_Courses](#page28)

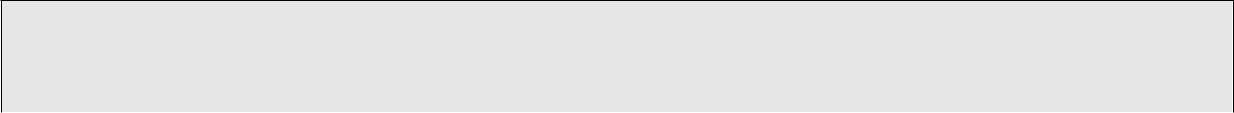


[dbo.Students](#page30)

[dbo.Topic](#page32)

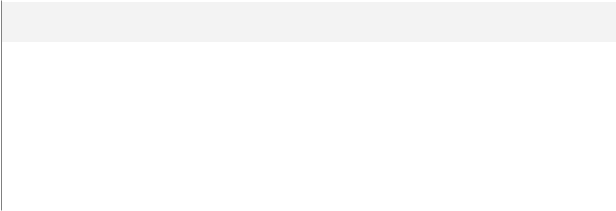
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 **[dbo].[Answers]**

**Properties**



**Property**

Collation



Row Count (~)

Created



Last Modified

**Value**



SQL\_Latin1\_General\_CP1\_CI\_AS



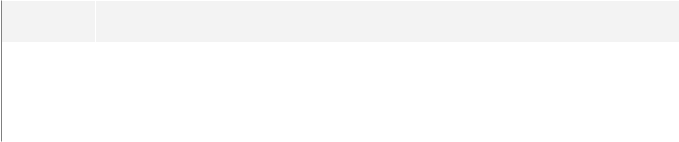
60

2:36:11 PM Thursday, January 25, 2024



11:09:00 PM Sunday, February 11, 2024

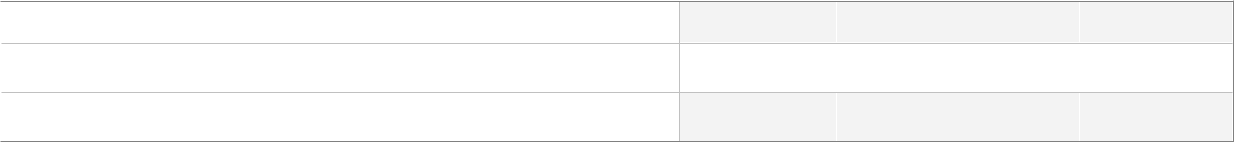
**Columns**



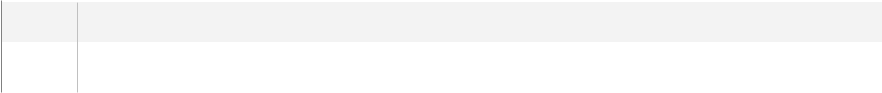
|  |  |
| --- | --- |
| **Key** | **Name** |
|  | Question\_Id |
|  | Value |
|  |  |



|  |  |  |
| --- | --- | --- |
| **Data Type** | **Max Length (Bytes)** | **Nullability** |
| int | 4 | NOT NULL |
| varchar(50) | 50 | NOT NULL |
|  |  |  |



**Indexes**



**Key** **Name**

PK\_Answers



|  |  |
| --- | --- |
| **Key Columns** | **Unique** |
| Question\_Id, Value | True |
|  |  |

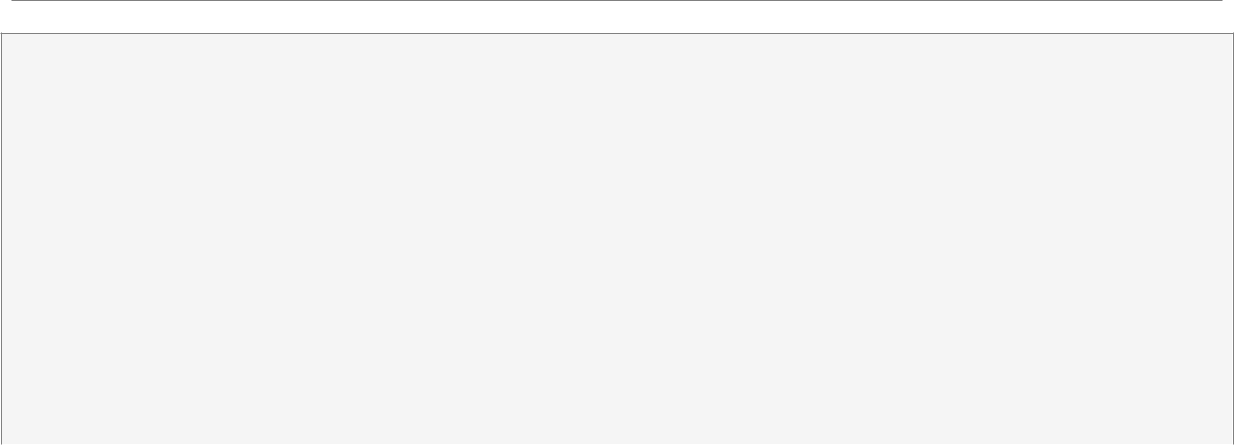


**Foreign Keys**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Update** | **Delete** | **Columns** |
|  |  |  |  |
| FK\_Answers\_Questions | Cascade | Cascade | Question\_Id-[>[dbo].[Questions].[Question\_Id]](#page24) |
|  |  |  |  |



**SQL Script**



CREATE TABLE [dbo].[Answers]

(

[Question\_Id] [int] NOT NULL,

[Value] [varchar] (50) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Answers] ADD CONSTRAINT [PK\_Answers] PRIMARY KEY CLUSTERED ([Question\_Id], [Value]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Answers] ADD CONSTRAINT [FK\_Answers\_Questions] FOREIGN KEY ([Question\_Id]) REFERENCES [dbo].[Questions] ([Question\_Id]) ON DELETE CASCADE ON UPDATE CASCADE

GO

**Uses**

[[dbo].[Questions]](#page24)

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**Used By**

[[dbo].[DeleteAnswersForQuestion]](#page42)

[[dbo].[Exam\_Correct]](#page53)

[[dbo].[ExamQuestions\_StudentAnswers\_ModelAnswers]](#page58)

[[dbo].[GetStudentAnswerAndModelAnswer]](#page62)

[[dbo].[InsertAnswerForQuestion]](#page70)

[[dbo].[SelectAnswerForQuestion]](#page87)

[[dbo].[UpdateAnswerForQuestion]](#page101)

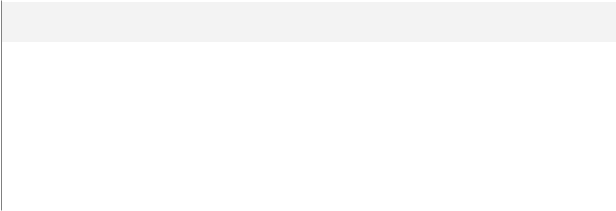
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 **[dbo].[Choices]**

**Properties**



**Property**

Collation



Row Count (~)

Created



Last Modified

**Value**



SQL\_Latin1\_General\_CP1\_CI\_AS



180

11:07:52 PM Sunday, February 11, 2024



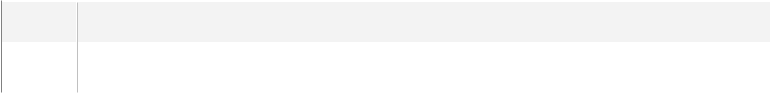
11:09:00 PM Sunday, February 11, 2024

**Columns**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Key** | **Name** | **Data Type** | **Max Length (Bytes)** | **Nullability** |
|  |  |  |  |  |
|  | Question\_Id | int | 4 | NOT NULL |
|  |  |  |  |  |
|  | Choice\_Number | varchar(50) | 50 | NOT NULL |
|  |  |  |  |  |
|  | Content | varchar(500) | 500 | NOT NULL |
|  |  |  |  |  |



**Indexes**



**Key** **Name**

PK\_Choices



|  |  |
| --- | --- |
| **Key Columns** | **Unique** |
| Question\_Id, Choice\_Number | True |
|  |  |

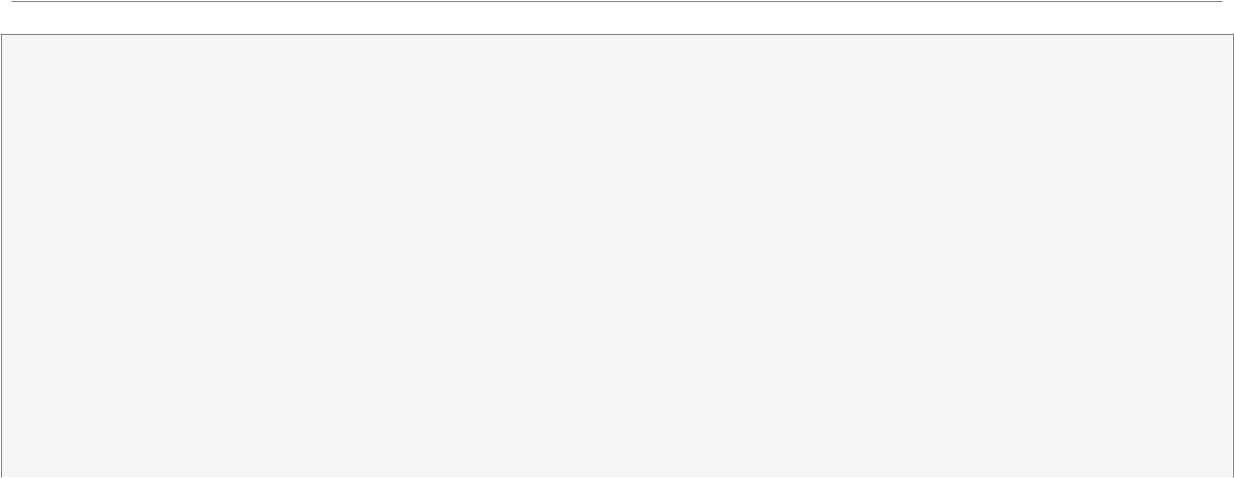


**Foreign Keys**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Update** | **Delete** | **Columns** |
|  |  |  |  |
| FK\_Choices\_Questions | Cascade | Cascade | Question\_Id-[>[dbo].[Questions].[Question\_Id]](#page24) |
|  |  |  |  |



**SQL Script**



CREATE TABLE [dbo].[Choices]

(

[Question\_Id] [int] NOT NULL,

[Choice\_Number] [varchar] (50) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NOT NULL, [Content] [varchar] (500) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NOT NULL ) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Choices] ADD CONSTRAINT [PK\_Choices] PRIMARY KEY CLUSTERED ([Question\_Id], [Choice\_Number]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Choices] ADD CONSTRAINT [FK\_Choices\_Questions] FOREIGN KEY ([Question\_Id]) REFERENCES [dbo].[Questions] ([Question\_Id]) ON DELETE CASCADE ON UPDATE CASCADE

GO

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**Uses**

[[dbo].[Questions]](#page24)

**Used By**

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[[dbo].[DeleteChoiceForQuestion]](#page43)

[[dbo].[ExamQuestions\_StudentAnswers\_ModelAnswers]](#page58)

[[dbo].[GetStudentAnswerAndModelAnswer]](#page62)

[[dbo].[InsertChoiceForQuestion]](#page71)

[[dbo].[questionsAndChoicesFromExamID]](#page79)

[[dbo].[Report6\_ExamQuestions\_StudnetAnswers]](#page80)

[[dbo].[SelectChoices]](#page88)

[[dbo].[UpdateChoiceForQuestion]](#page102)

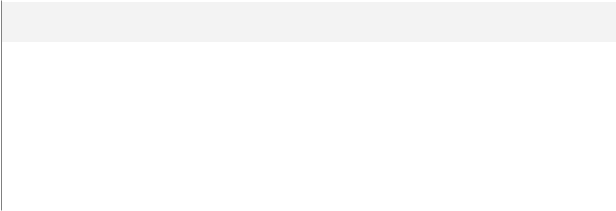
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 **[dbo].[Courses]**

**Properties**



**Property**

Collation



Row Count (~)

Created



Last Modified

**Value**



SQL\_Latin1\_General\_CP1\_CI\_AS



4

9:52:37 PM Saturday, February 3, 2024



11:09:00 PM Sunday, February 11, 2024

**Columns**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key** | **Name** | **Data Type** | **Max Length (Bytes)** | **Nullability** | **Identity** |
|  |  |  |  |  |  |
|  | Course\_Id | int | 4 | NOT NULL | 1 - 1 |
|  |  |  |  |  |  |
|  | Course\_Name | varchar(50) | 50 | NULL allowed |  |
|  |  |  |  |  |  |

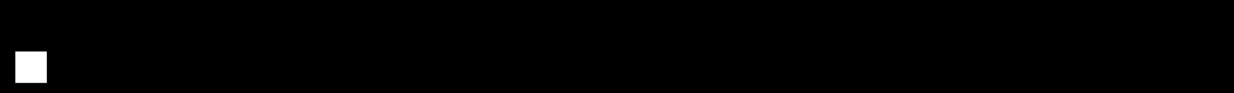


**Indexes**

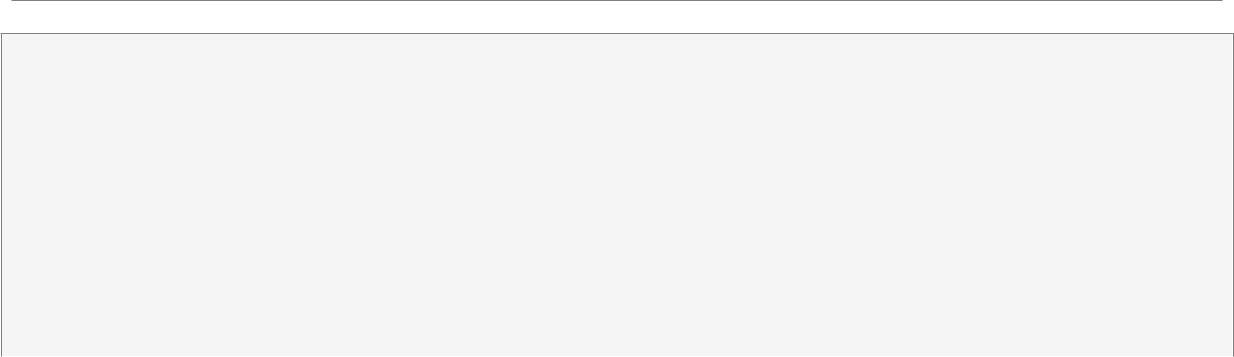
**Key** **Name**

PK\_Courses

|  |  |
| --- | --- |
| **Key Columns** | **Unique** |
| Course\_Id | True |
|  |  |



**SQL Script**



CREATE TABLE [dbo].[Courses]

(

[Course\_Id] [int] NOT NULL IDENTITY(1, 1),

[Course\_Name] [varchar] (50) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Courses] ADD CONSTRAINT [PK\_Courses] PRIMARY KEY CLUSTERED ([Course\_Id]) ON [PRIMARY]

GO

**Used By**

[[dbo].[Courses\_Instructor]](#page15)

[[dbo].[Exams]](#page20)

[[dbo].[Questions]](#page24)

[[dbo].[Student\_Courses]](#page28)

[[dbo].[Topic]](#page32)

[[dbo].[delete\_Course]](#page36)

[[dbo].[Exam\_Generation]](#page56)

[[dbo].[GetCoursesTeachedByInstructor]](#page60)

[[dbo].[GetStudentGradeInAllCourses]](#page63)

[[dbo].[GetTopicsOfCourse]](#page65)

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[[dbo].[insert\_Course]](#page66)

[[dbo].[select\_Course]](#page82)

[[dbo].[update\_Course]](#page96)

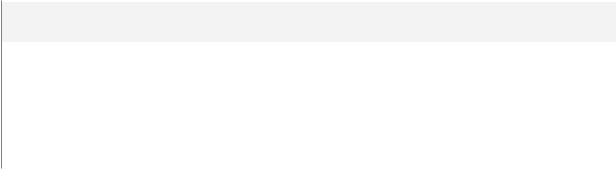
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 **[dbo].[Courses\_Instructor]**

**Properties**



**Property**

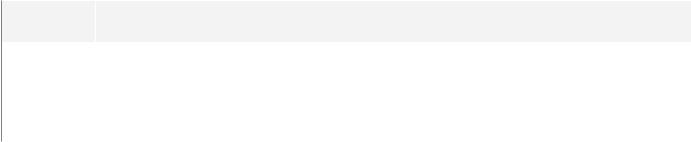
Row Count (~)



Created

Last Modified

**Columns**



|  |  |
| --- | --- |
| **Key** | **Name** |
|  | Course\_Id |
|  | Ins\_Id |
|  |  |



**Value**



5



2:29:36 PM Thursday, January 25, 2024

9:52:37 PM Saturday, February 3, 2024



|  |  |  |
| --- | --- | --- |
| **Data Type** | **Max Length (Bytes)** | **Nullability** |
| int | 4 | NOT NULL |
| int | 4 | NOT NULL |
|  |  |  |



**Indexes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Name** | **Key Columns** | **Unique** |
|  |  |  |  |
|  | PK\_Courses\_Instructor | Course\_Id, Ins\_Id | True |
|  |  |  |  |

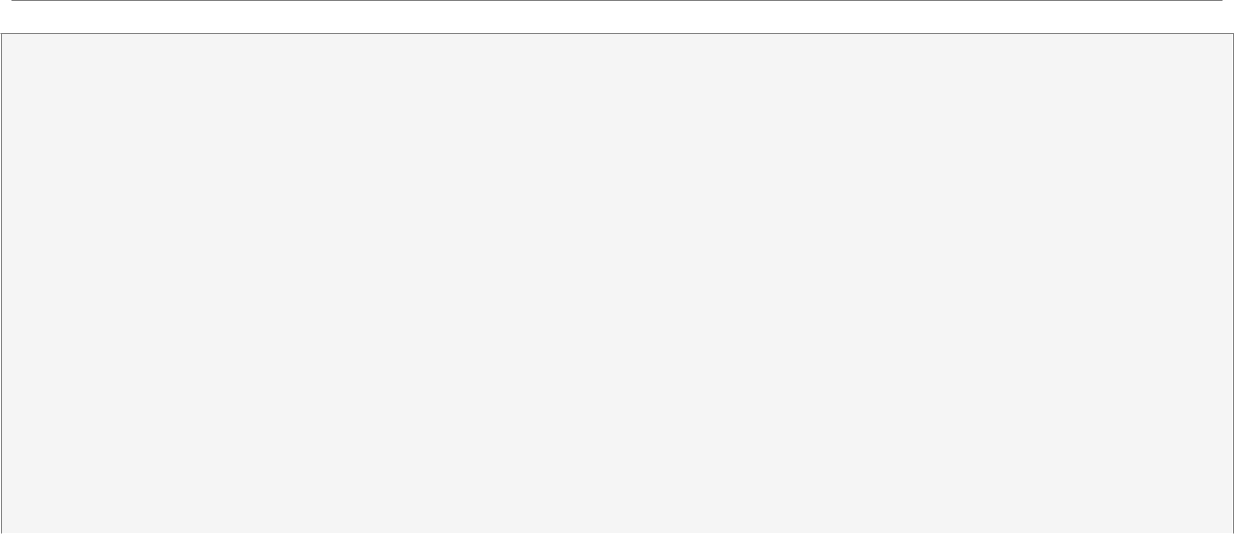


**Foreign Keys**

|  |  |
| --- | --- |
| **Name** | **Columns** |
|  |  |
| FK\_Courses\_Instructor\_Courses | Course\_Id-[>[dbo].[Courses].[Course\_Id]](#page13) |
|  |  |
| FK\_Courses\_Instructor\_Instructors | Ins\_Id-[>[dbo].[Instructors].[Instructor\_Id]](#page22) |
|  |  |



**SQL Script**



CREATE TABLE [dbo].[Courses\_Instructor]

(

[Course\_Id] [int] NOT NULL,

[Ins\_Id] [int] NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Courses\_Instructor] ADD CONSTRAINT [PK\_Courses\_Instructor] PRIMARY KEY CLUSTERED ([Course\_Id], [Ins\_Id]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Courses\_Instructor] ADD CONSTRAINT [FK\_Courses\_Instructor\_Courses] FOREIGN KEY ([Course\_Id]) REFERENCES [dbo].[Courses] ([Course\_Id])

GO

ALTER TABLE [dbo].[Courses\_Instructor] ADD CONSTRAINT [FK\_Courses\_Instructor\_Instructors] FOREIGN KEY ([Ins\_Id]) REFERENCES [dbo].[Instructors] ([Instructor\_Id])

GO

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Courses\_Instructor

**Uses**

[[dbo].[Courses]](#page13)

[[dbo].[Instructors]](#page22)

**Used By**

[[dbo].[delete\_CourseInstructor]](#page37)

[[dbo].[delete\_CourseInstructor2]](#page38)

[[dbo].[GetCoursesTeachedByInstructor]](#page60)

[[dbo].[insert\_CourseInstructor]](#page67)

[[dbo].[select\_CourseInstructor]](#page83)

[[dbo].[select\_CourseInstructor2]](#page84)

[[dbo].[update\_CourseInstructor]](#page97)

[[dbo].[update\_CourseInstructor2]](#page98)

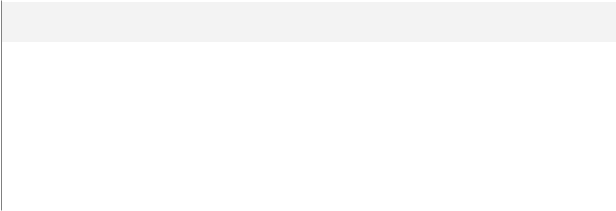
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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Departments



 **[dbo].[Departments]**

**Properties**



**Property**

Collation



Row Count (~)

Created



Last Modified

**Value**



SQL\_Latin1\_General\_CP1\_CI\_AS



2

7:55:22 PM Tuesday, January 30, 2024



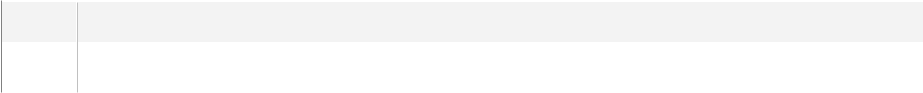
7:55:22 PM Tuesday, January 30, 2024

**Columns**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key** | **Name** | **Data Type** | **Max Length (Bytes)** | **Nullability** | **Identity** |
|  |  |  |  |  |  |
|  | Department\_ID | int | 4 | NOT NULL | 1 - 1 |
|  |  |  |  |  |  |
|  | Department\_Name | varchar(50) | 50 | NULL allowed |  |
|  |  |  |  |  |  |
|  | Dept\_Description | varchar(200) | 200 | NULL allowed |  |
|  |  |  |  |  |  |



**Indexes**



**Key** **Name**

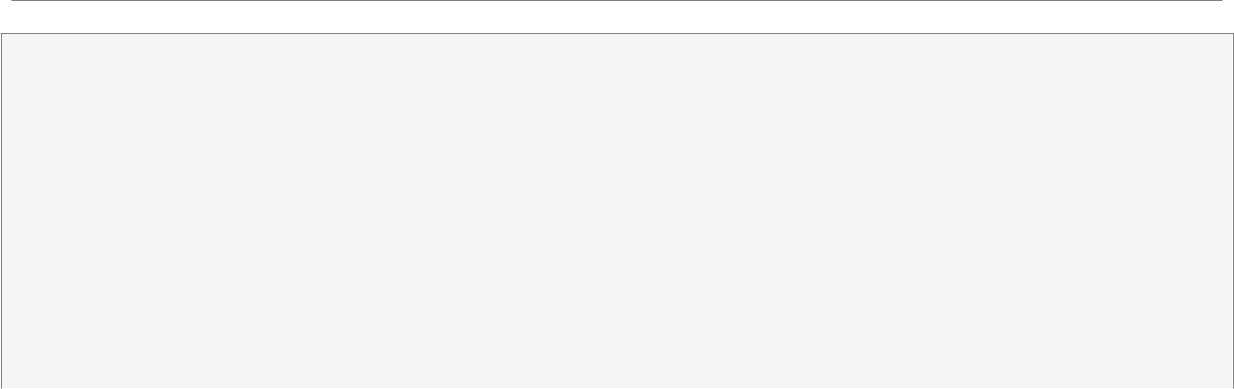
PK\_Departments



|  |  |
| --- | --- |
| **Key Columns** | **Unique** |
| Department\_ID | True |
|  |  |



**SQL Script**



CREATE TABLE [dbo].[Departments]

(

[Department\_ID] [int] NOT NULL IDENTITY(1, 1),

[Department\_Name] [varchar] (50) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NULL,

[Dept\_Description] [varchar] (200) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Departments] ADD CONSTRAINT [PK\_Departments] PRIMARY KEY CLUSTERED ([Department\_ID]) ON [PRIMARY]

GO

**Used By**

[[dbo].[Instructors]](#page22)

[[dbo].[Students]](#page30)

[[dbo].[DeleteDepartment]](#page44)

[[dbo].[GetStudentsInDepartment]](#page64)

[[dbo].[InsertDepartment]](#page72)

[[dbo].[SelectDepartment]](#page89)

[[dbo].[UpdateDepartment]](#page103)

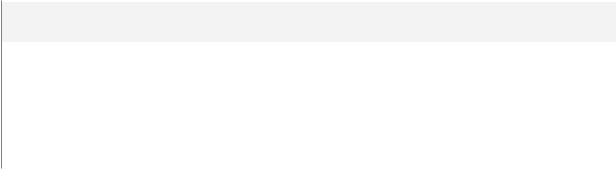
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 **[dbo].[Exam\_Questions]**

**Properties**



**Property**

Row Count (~)



Created

Last Modified

**Value**



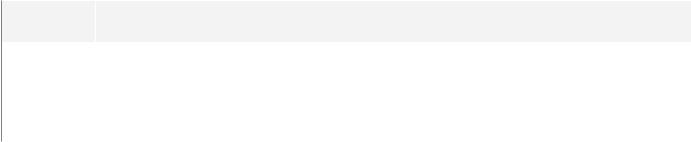
250



9:54:49 PM Saturday, January 27, 2024

11:09:00 PM Sunday, February 11, 2024

**Columns**



|  |  |
| --- | --- |
| **Key** | **Name** |
|  | Question\_Id |
|  | Exam\_ID |
|  |  |



|  |  |  |
| --- | --- | --- |
| **Data Type** | **Max Length (Bytes)** | **Nullability** |
| int | 4 | NOT NULL |
| int | 4 | NOT NULL |
|  |  |  |



**Indexes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Name** | **Key Columns** | **Unique** |
|  |  |  |  |
|  | PK\_Exam\_Questions | Question\_Id, Exam\_ID | True |
|  |  |  |  |

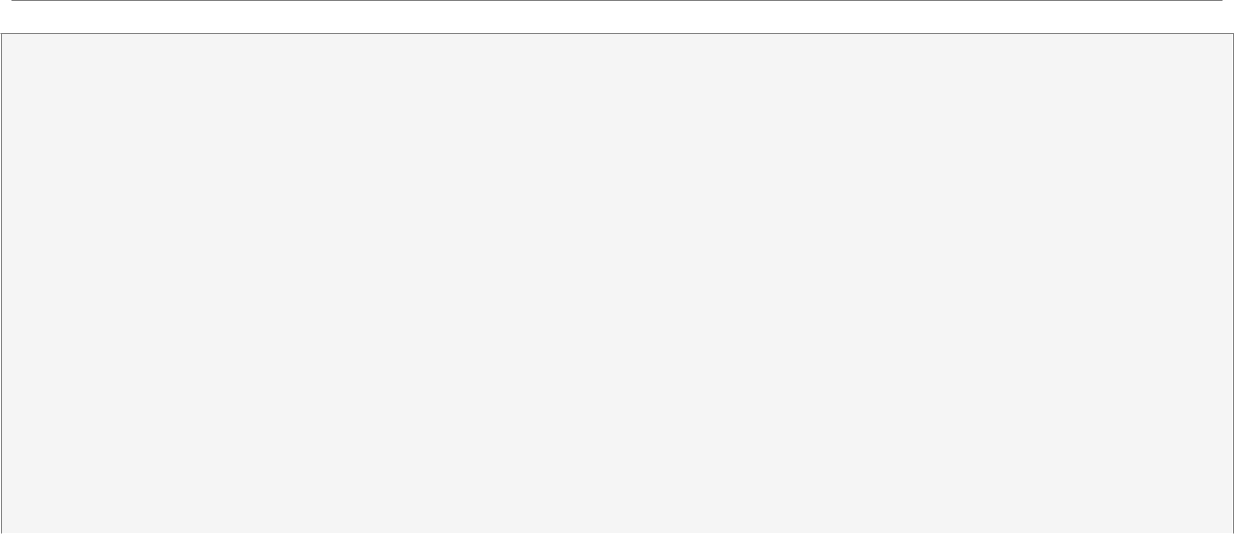


**Foreign Keys**

|  |  |  |
| --- | --- | --- |
| **Name** | **Delete** | **Columns** |
|  |  |  |
| FK\_Exam\_Questions\_Exams | Cascade | Exam\_ID-[>[dbo].[Exams].[Exam\_Id]](#page20) |
|  |  |  |
| FK\_Exam\_Questions\_Questions | Cascade | Question\_Id-[>[dbo].[Questions].[Question\_Id]](#page24) |
|  |  |  |



**SQL Script**



CREATE TABLE [dbo].[Exam\_Questions]

(

[Question\_Id] [int] NOT NULL,

[Exam\_ID] [int] NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Exam\_Questions] ADD CONSTRAINT [PK\_Exam\_Questions] PRIMARY KEY CLUSTERED ([Question\_Id], [Exam\_ID]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Exam\_Questions] ADD CONSTRAINT [FK\_Exam\_Questions\_Exams] FOREIGN KEY ([Exam\_ID]) REFERENCES [dbo].[Exams] ([Exam\_Id]) ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Exam\_Questions] ADD CONSTRAINT [FK\_Exam\_Questions\_Questions] FOREIGN KEY ([Question\_Id]) REFERENCES [dbo].[Questions] ([Question\_Id]) ON DELETE CASCADE

GO

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**Uses**

[[dbo].[Exams]](#page20)

[[dbo].[Questions]](#page24)

**Used By**

[[dbo].[DeleteQuestionFromExam]](#page47)

[[dbo].[Exam\_Answers]](#page51)

[[dbo].[Exam\_Generation]](#page56)

[[dbo].[InsertQuestionInExam]](#page75)

[[dbo].[questionsAndChoicesFromExamID]](#page79)

[[dbo].[SelectExamQuestion]](#page91)

[[dbo].[UpdateQuestionInExam]](#page106)

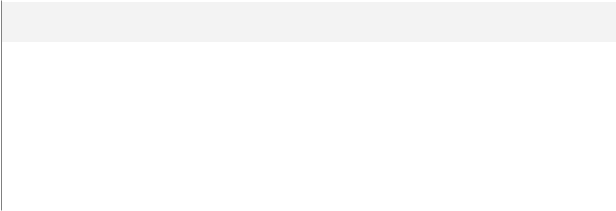
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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Exams



 **[dbo].[Exams]**

**Properties**



**Property**

Collation



Row Count (~)

Created



Last Modified

**Value**



SQL\_Latin1\_General\_CP1\_CI\_AS



32

10:58:34 PM Sunday, February 11, 2024



11:09:25 PM Sunday, February 11, 2024

**Columns**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key** | **Name** | **Data Type** | **Max Length (Bytes)** | **Nullability** | **Identity** |
|  |  |  |  |  |  |
|  | Exam\_Id | int | 4 | NOT NULL | 1 - 1 |
|  |  |  |  |  |  |
|  | Exam\_Name | varchar(50) | 50 | NULL allowed |  |
|  |  |  |  |  |  |
|  | Exam\_Duration | varchar(50) | 50 | NOT NULL |  |
|  |  |  |  |  |  |
|  | Course\_Id | int | 4 | NOT NULL |  |
|  |  |  |  |  |  |

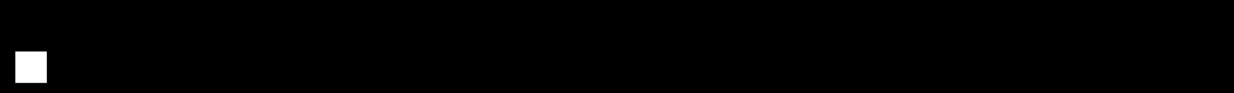


**Indexes**

**Key** **Name**

PK\_Exams

|  |  |
| --- | --- |
| **Key Columns** | **Unique** |
| Exam\_Id | True |
|  |  |



**Foreign Keys**



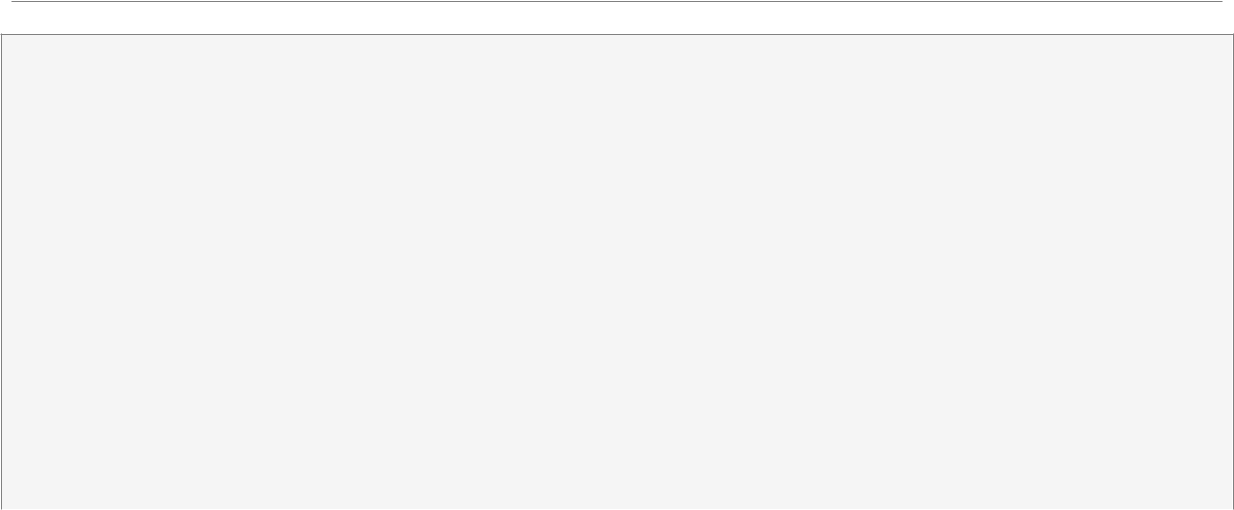
**Name**

FK\_Exams\_Courses

**Columns**

Course\_Id-[>[dbo].[Courses].[Course\_Id]](#page13)

**SQL Script**



CREATE TABLE [dbo].[Exams]

(

[Exam\_Id] [int] NOT NULL IDENTITY(1, 1),

[Exam\_Name] [varchar] (50) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NULL,

[Exam\_Duration] [varchar] (50) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NOT NULL,

[Course\_Id] [int] NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Exams] ADD CONSTRAINT [PK\_Exams] PRIMARY KEY CLUSTERED ([Exam\_Id]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Exams] ADD CONSTRAINT [FK\_Exams\_Courses] FOREIGN KEY ([Course\_Id])

REFERENCES [dbo].[Courses] ([Course\_Id])

GO

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Exams

**Uses**

[[dbo].[Courses]](#page13)

**Used By**

[[dbo].[Exam\_Questions]](#page18)

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

[[dbo].[DeleteExam]](#page45)

[[dbo].[DeleteQuestionFromExam]](#page47)

[[dbo].[Exam\_Answers]](#page51)

[[dbo].[Exam\_Correct]](#page53)

[[dbo].[Exam\_Generation]](#page56)

[[dbo].[ExamQuestions\_StudentAnswers\_ModelAnswers]](#page58)

[[dbo].[getExamFromCrsID]](#page61)

[[dbo].[GetStudentAnswerAndModelAnswer]](#page62)

[[dbo].[InsertExam]](#page73)

[[dbo].[InsertQuestionInExam]](#page75)

[[dbo].[questionsAndChoicesFromExamID]](#page79)

[[dbo].[Report6\_ExamQuestions\_StudnetAnswers]](#page80)

[[dbo].[SelectExam]](#page90)

[[dbo].[SelectExamQuestion]](#page91)

[[dbo].[UpdateExam]](#page104)

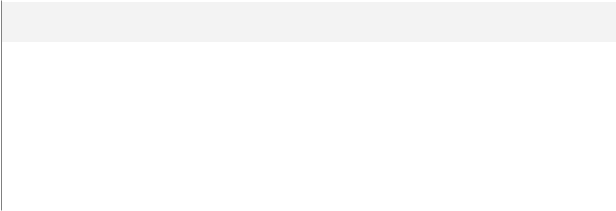
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 **[dbo].[Instructors]**

**Properties**



**Property**

Collation



Row Count (~)

Created



Last Modified

**Value**



SQL\_Latin1\_General\_CP1\_CI\_AS



5

7:55:02 PM Tuesday, January 30, 2024



7:55:22 PM Tuesday, January 30, 2024

**Columns**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key** | **Name** | **Data Type** | **Max Length (Bytes)** | **Nullability** | **Identity** |
|  |  |  |  |  |  |
|  | Instructor\_Id | int | 4 | NOT NULL | 1 - 1 |
|  |  |  |  |  |  |
|  | Instructor\_Name | varchar(50) | 50 | NULL allowed |  |
|  |  |  |  |  |  |
|  | Dept\_Id | int | 4 | NULL allowed |  |
|  |  |  |  |  |  |

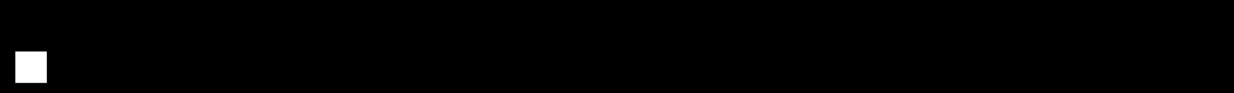


**Indexes**

**Key** **Name**

PK\_Instructors

|  |  |
| --- | --- |
| **Key Columns** | **Unique** |
| Instructor\_Id | True |
|  |  |

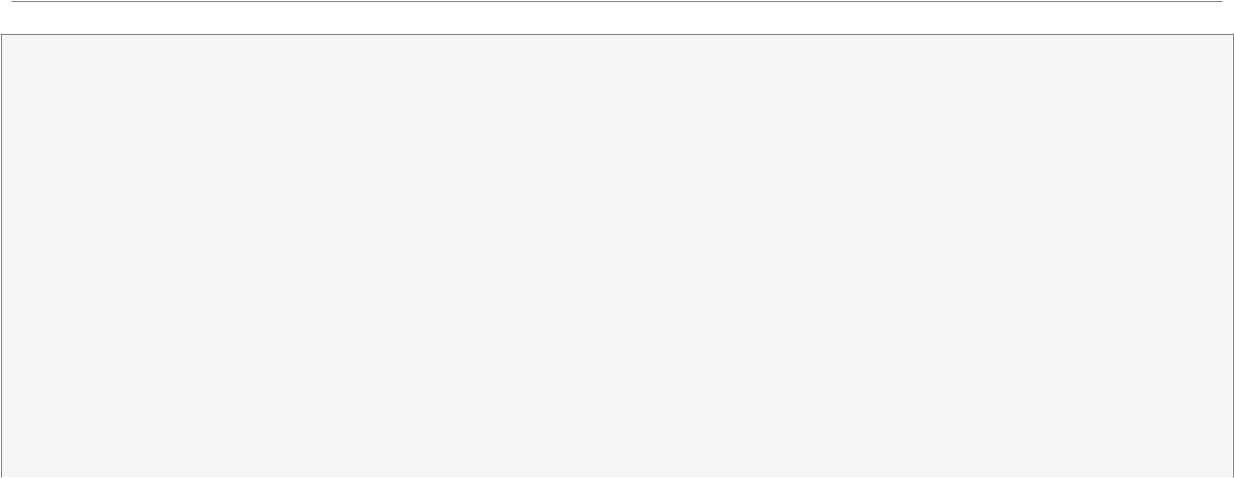


**Foreign Keys**

|  |  |
| --- | --- |
| **Name** | **Columns** |
|  |  |
| FK\_Instructors\_Departments | Dept\_Id-[>[dbo].[Departments].[Department\_ID]](#page17) |
|  |  |



**SQL Script**



CREATE TABLE [dbo].[Instructors]

(

[Instructor\_Id] [int] NOT NULL IDENTITY(1, 1),

[Instructor\_Name] [varchar] (50) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NULL,

[Dept\_Id] [int] NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Instructors] ADD CONSTRAINT [PK\_Instructors] PRIMARY KEY CLUSTERED ([Instructor\_Id]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Instructors] ADD CONSTRAINT [FK\_Instructors\_Departments] FOREIGN KEY ([Dept\_Id]) REFERENCES [dbo].[Departments] ([Department\_ID])

GO

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Instructors

**Uses**

[[dbo].[Departments]](#page17)

**Used By**

[[dbo].[Courses\_Instructor]](#page15)

[[dbo].[delete\_Instructor]](#page39)

[[dbo].[GetCoursesTeachedByInstructor]](#page60)

[[dbo].[insert\_Instructor]](#page68)

[[dbo].[select\_Instructor]](#page85)

[[dbo].[update\_Instructor]](#page99)

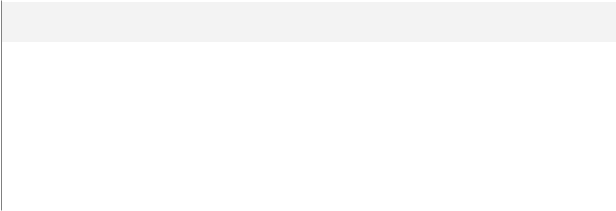
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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Questions



 **[dbo].[Questions]**

**Properties**



**Property**

Collation



Row Count (~)

Created



Last Modified

**Value**



SQL\_Latin1\_General\_CP1\_CI\_AS



71

11:08:59 PM Sunday, February 11, 2024



9:09:15 PM Wednesday, February 28, 2024

**Columns**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key** | **Name** | **Data Type** | **Max Length (Bytes)** | **Nullability** | **Identity** |
|  |  |  |  |  |  |
|  | Question\_Id | int | 4 | NOT NULL | 1 - 1 |
|  |  |  |  |  |  |
|  | Grade | int | 4 | NOT NULL |  |
|  |  |  |  |  |  |
|  | Content | varchar(400) | 400 | NOT NULL |  |
|  |  |  |  |  |  |
|  | Question\_Type | varchar(100) | 100 | NOT NULL |  |
|  |  |  |  |  |  |
|  | Course\_Id | int | 4 | NOT NULL |  |
|  |  |  |  |  |  |

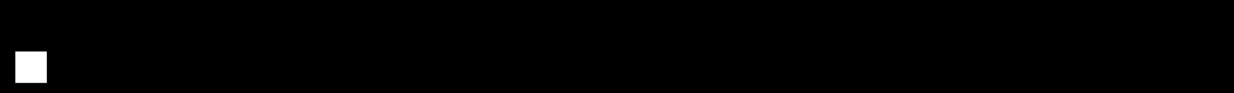


**Indexes**

**Key** **Name**

PK\_Questions

|  |  |
| --- | --- |
| **Key Columns** | **Unique** |
| Question\_Id | True |
|  |  |

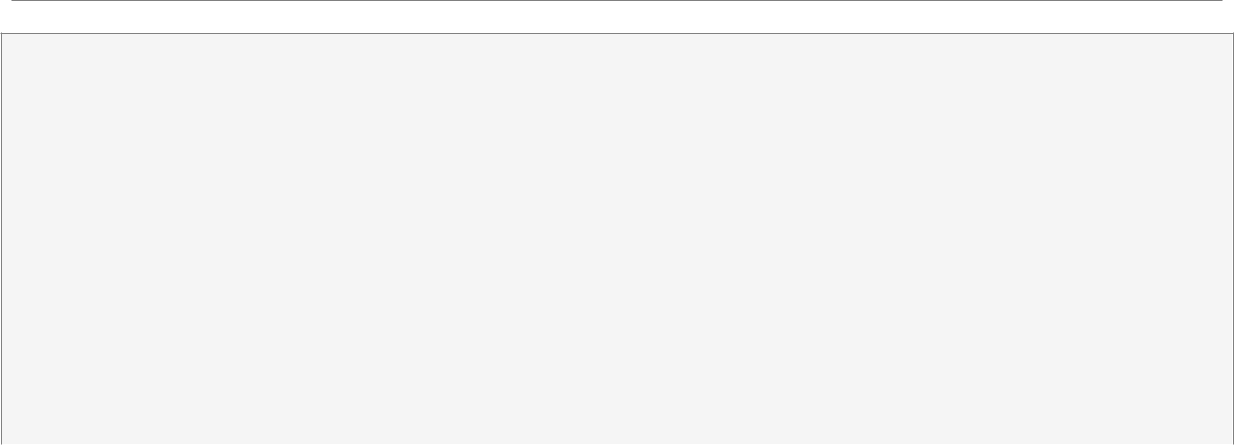


**Foreign Keys**

|  |  |  |
| --- | --- | --- |
| **Name** | **No Check** | **Columns** |
|  |  |  |
| FK\_Questions\_Courses | True | Course\_Id-[>[dbo].[Courses].[Course\_Id]](#page13) |
|  |  |  |



**SQL Script**



CREATE TABLE [dbo].[Questions]

(

[Question\_Id] [int] NOT NULL IDENTITY(1, 1),

[Grade] [int] NOT NULL,

[Content] [varchar] (400) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NOT NULL,

[Question\_Type] [varchar] (100) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NOT NULL,

[Course\_Id] [int] NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Questions] ADD CONSTRAINT [PK\_Questions] PRIMARY KEY CLUSTERED ([Question\_-Id]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Questions] WITH NOCHECK ADD CONSTRAINT [FK\_Questions\_Courses] FOREIGN KEY

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Questions

([Course\_Id]) REFERENCES [dbo].[Courses] ([Course\_Id])



GO

**Uses**

[[dbo].[Courses]](#page13)

**Used By**

[[dbo].[Answers]](#page9)

[[dbo].[Choices]](#page11)

[[dbo].[Exam\_Questions]](#page18)

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

[[dbo].[DeleteQuestion]](#page46)

[[dbo].[Exam\_Correct]](#page53)

[[dbo].[Exam\_Generation]](#page56)

[[dbo].[ExamQuestions\_StudentAnswers\_ModelAnswers]](#page58)

[[dbo].[GetStudentAnswerAndModelAnswer]](#page62)

[[dbo].[InsertQuestion]](#page74)

[[dbo].[questionsAndChoicesFromExamID]](#page79)

[[dbo].[Report6\_ExamQuestions\_StudnetAnswers]](#page80)

[[dbo].[SelectChoices]](#page88)

[[dbo].[SelectExamQuestion]](#page91)

[[dbo].[SelectQuestion]](#page92)

[[dbo].[UpdateQuestion]](#page105)

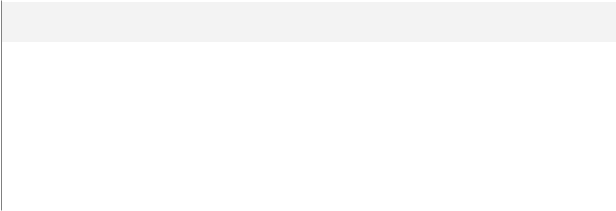
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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Student\_Answer\_In\_Exam



 **[dbo].[Student\_Answer\_In\_Exam]**

**Properties**



**Property**

Collation



Row Count (~)

Created



Last Modified

**Value**



SQL\_Latin1\_General\_CP1\_CI\_AS



95

11:09:25 PM Sunday, February 11, 2024



11:09:25 PM Sunday, February 11, 2024

**Columns**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Key** | **Name** | **Data Type** | **Max Length (Bytes)** | **Nullability** |
|  |  |  |  |  |
|  | Student\_Id | int | 4 | NOT NULL |
|  |  |  |  |  |
|  | Exam\_Id | int | 4 | NOT NULL |
|  |  |  |  |  |
|  | Question\_Id | int | 4 | NOT NULL |
|  |  |  |  |  |
|  | Student\_Answer | varchar(200) | 200 | NOT NULL |
|  |  |  |  |  |



**Indexes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Name** | **Key Columns** | **Unique** |
|  |  |  |  |
|  | PK\_Student\_Answer\_In\_Exam | Student\_Id, Question\_Id | True |
|  |  |  |  |

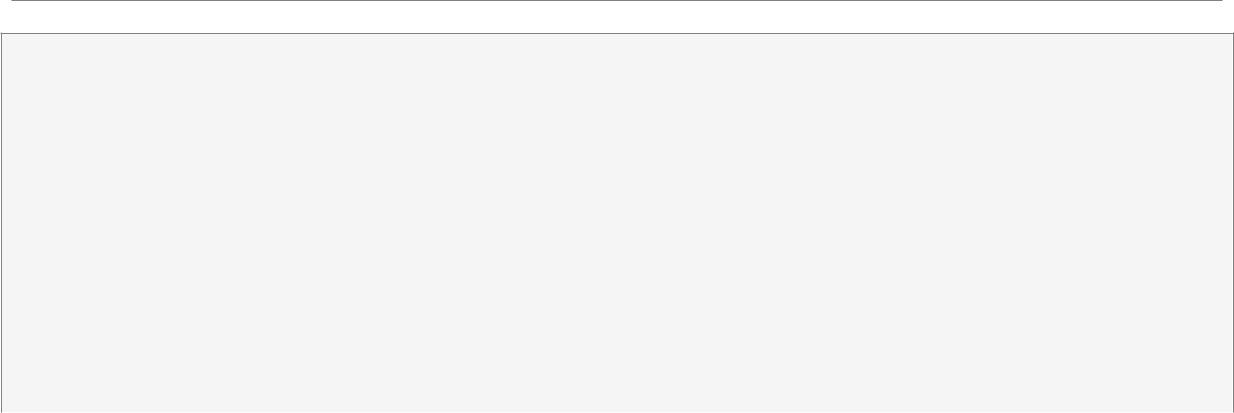


**Foreign Keys**

|  |  |  |
| --- | --- | --- |
| **Name** | **Delete** | **Columns** |
|  |  |  |
| FK\_Student\_Answer\_In\_Exam\_Exams | Cascade | Exam\_Id-[>[dbo].[Exams].[Exam\_Id]](#page20) |
|  |  |  |
| FK\_Student\_Answer\_In\_Exam\_Questions |  | Question\_Id-[>[dbo].[Questions].[Question\_Id]](#page24) |
|  |  |  |
| FK\_Student\_Answer\_In\_Exam\_Students |  | Student\_Id-[>[dbo].[Students].[Student\_Id]](#page30) |
|  |  |  |



**SQL Script**



CREATE TABLE [dbo].[Student\_Answer\_In\_Exam]

(

[Student\_Id] [int] NOT NULL,

[Exam\_Id] [int] NOT NULL,

[Question\_Id] [int] NOT NULL,

[Student\_Answer] [varchar] (200) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Student\_Answer\_In\_Exam] ADD CONSTRAINT [PK\_Student\_Answer\_In\_Exam] PRIMARY KEY CLUSTERED ([Student\_Id], [Question\_Id]) ON [PRIMARY]

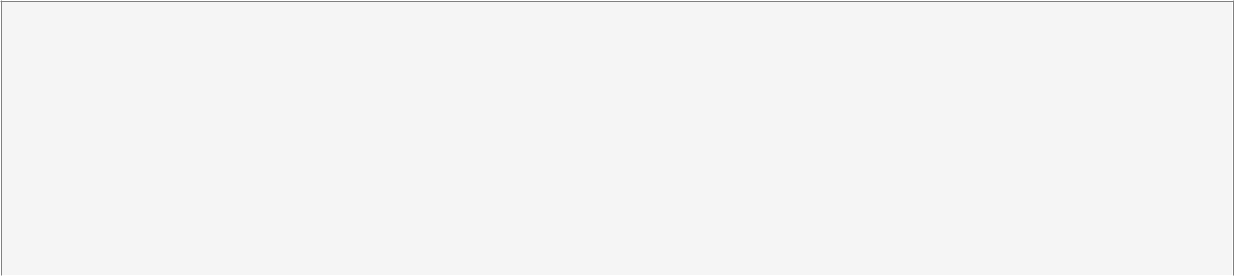
GO

ALTER TABLE [dbo].[Student\_Answer\_In\_Exam] ADD CONSTRAINT [FK\_Student\_Answer\_In\_Exam\_Exams]

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Student\_Answer\_In\_Exam

FOREIGN KEY ([Exam\_Id]) REFERENCES [dbo].[Exams] ([Exam\_Id]) ON DELETE CASCADE GO



ALTER TABLE [dbo].[Student\_Answer\_In\_Exam] ADD CONSTRAINT [FK\_Student\_Answer\_In\_Exam\_-Questions] FOREIGN KEY ([Question\_Id]) REFERENCES [dbo].[Questions] ([Question\_Id])

GO

ALTER TABLE [dbo].[Student\_Answer\_In\_Exam] ADD CONSTRAINT [FK\_Student\_Answer\_In\_Exam\_Students] FOREIGN KEY ([Student\_Id]) REFERENCES [dbo].[Students] ([Student\_Id])

GO

**Uses**

[[dbo].[Exams]](#page20)

[[dbo].[Questions]](#page24)

[[dbo].[Students]](#page30)

**Used By**

[[dbo].[DeleteStudentAnswerOfQuestionInExam]](#page49)

[[dbo].[Exam\_Correct]](#page53)

[[dbo].[ExamQuestions\_StudentAnswers\_ModelAnswers]](#page58)

[[dbo].[getExamFromCrsID]](#page61)

[[dbo].[GetStudentAnswerAndModelAnswer]](#page62)

[[dbo].[InsertStudentAnswerOfQuestionInExam]](#page77)

[[dbo].[Report6\_ExamQuestions\_StudnetAnswers]](#page80)

[[dbo].[SelectStudentAnswerOfQuestionInExam]](#page94)

[[dbo].[UpdateStudentAnswerOfQuestionInExam]](#page108)

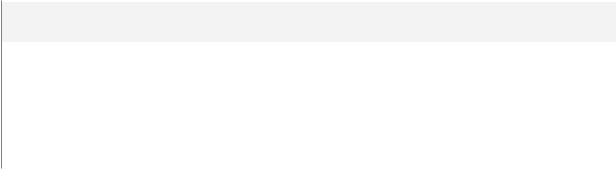
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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Student\_Courses



 **[dbo].[Student\_Courses]**

**Properties**



**Property**

Row Count (~)



Created

Last Modified

**Value**



16



2:20:56 PM Thursday, January 25, 2024

10:30:47 PM Monday, February 12, 2024

**Columns**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Key** | **Name** | **Data Type** | **Max Length (Bytes)** | **Nullability** |
|  |  |  |  |  |
|  | Student\_Id | int | 4 | NOT NULL |
|  |  |  |  |  |
|  | Course\_Id | int | 4 | NOT NULL |
|  |  |  |  |  |
|  | StudentGrade | decimal(18,2) | 9 | NULL allowed |
|  |  |  |  |  |



**Indexes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **Name** | **Key Columns** | **Unique** |
|  |  |  |  |
|  | PK\_Student\_Courses | Student\_Id, Course\_Id | True |
|  |  |  |  |

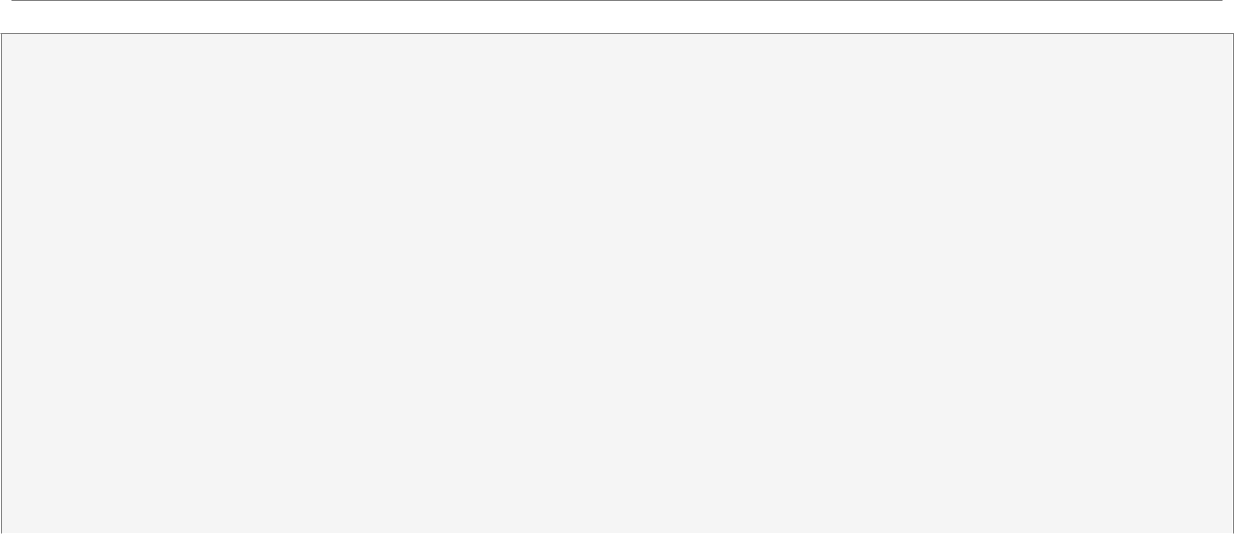


**Foreign Keys**

|  |  |
| --- | --- |
| **Name** | **Columns** |
|  |  |
| FK\_Student\_Courses\_Courses | Course\_Id-[>[dbo].[Courses].[Course\_Id]](#page13) |
|  |  |
| FK\_Student\_Courses\_Students | Student\_Id-[>[dbo].[Students].[Student\_Id]](#page30) |
|  |  |



**SQL Script**



CREATE TABLE [dbo].[Student\_Courses]

(

[Student\_Id] [int] NOT NULL,

[Course\_Id] [int] NOT NULL,

[StudentGrade] [decimal] (18, 2) NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Student\_Courses] ADD CONSTRAINT [PK\_Student\_Courses] PRIMARY KEY CLUSTERED ([Student\_Id], [Course\_Id]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Student\_Courses] ADD CONSTRAINT [FK\_Student\_Courses\_Courses] FOREIGN KEY ([Course\_Id]) REFERENCES [dbo].[Courses] ([Course\_Id])

GO

ALTER TABLE [dbo].[Student\_Courses] ADD CONSTRAINT [FK\_Student\_Courses\_Students] FOREIGN KEY ([Student\_Id]) REFERENCES [dbo].[Students] ([Student\_Id])

GO

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Student\_Courses



**Uses**

[[dbo].[Courses]](#page13)

[[dbo].[Students]](#page30)

**Used By**

[[dbo].[DeleteStudentCourse]](#page50)

[[dbo].[Exam\_Answers]](#page51)

[[dbo].[Exam\_Correct]](#page53)

[[dbo].[GetCoursesTeachedByInstructor]](#page60)

[[dbo].[getExamFromCrsID]](#page61)

[[dbo].[GetStudentAnswerAndModelAnswer]](#page62)

[[dbo].[GetStudentGradeInAllCourses]](#page63)

[[dbo].[InsertStudentCourse]](#page78)

[[dbo].[SelectStudentCourse]](#page95)

[[dbo].[UpdateStudentCourse]](#page109)

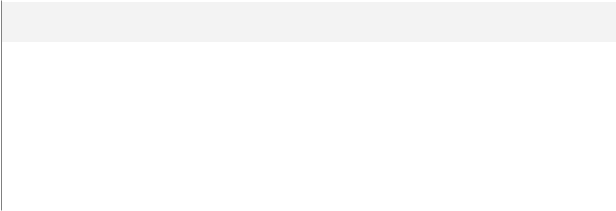
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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Students



 **[dbo].[Students]**

**Properties**



**Property**

Collation



Row Count (~)

Created



Last Modified

**Value**



SQL\_Latin1\_General\_CP1\_CI\_AS



8

7:53:48 PM Tuesday, January 30, 2024



11:09:25 PM Sunday, February 11, 2024

**Columns**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key** | **Name** | **Data Type** | **Max Length (Bytes)** | **Nullability** | **Identity** |
|  |  |  |  |  |  |
|  | Student\_Id | int | 4 | NOT NULL | 1 - 1 |
|  |  |  |  |  |  |
|  | Fname | varchar(10) | 10 | NULL allowed |  |
|  |  |  |  |  |  |
|  | LName | varchar(10) | 10 | NULL allowed |  |
|  |  |  |  |  |  |
|  | Age | int | 4 | NULL allowed |  |
|  |  |  |  |  |  |
|  | Email | varchar(50) | 50 | NULL allowed |  |
|  |  |  |  |  |  |
|  | Dept\_Id | int | 4 | NULL allowed |  |
|  |  |  |  |  |  |

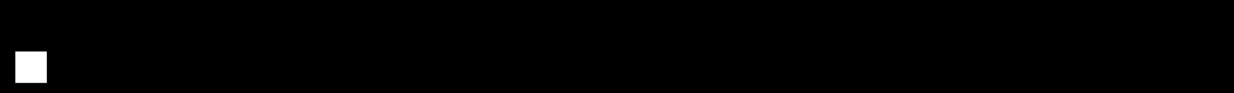


**Indexes**

**Key** **Name**

PK\_Students

|  |  |
| --- | --- |
| **Key Columns** | **Unique** |
| Student\_Id | True |
|  |  |

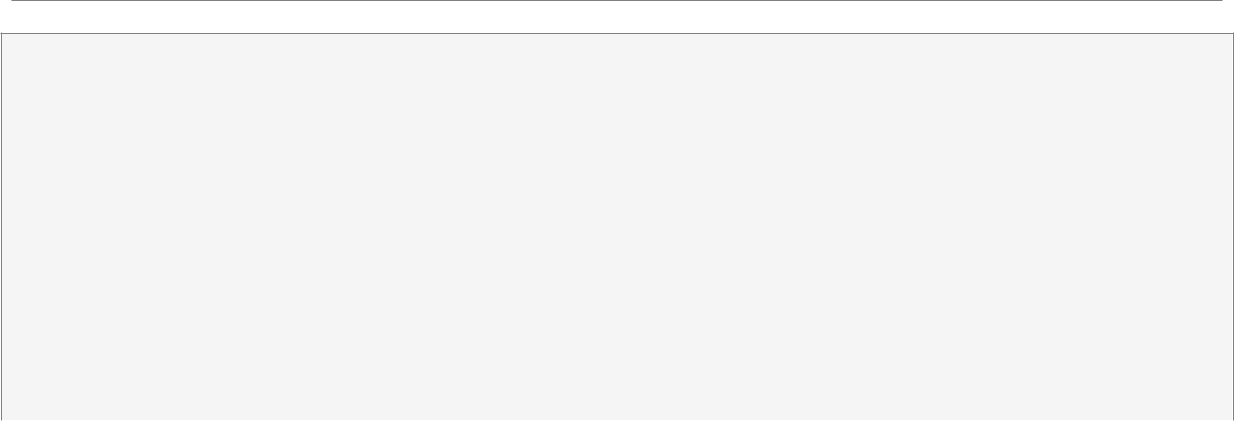


**Foreign Keys**

|  |  |
| --- | --- |
| **Name** | **Columns** |
|  |  |
| FK\_Students\_Departments | Dept\_Id-[>[dbo].[Departments].[Department\_ID]](#page17) |
|  |  |



**SQL Script**



CREATE TABLE [dbo].[Students]

(

[Student\_Id] [int] NOT NULL IDENTITY(1, 1),

[Fname] [varchar] (10) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NULL,

[LName] [varchar] (10) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NULL,

[Age] [int] NULL,

[Email] [varchar] (50) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NULL,

[Dept\_Id] [int] NULL

) ON [PRIMARY]

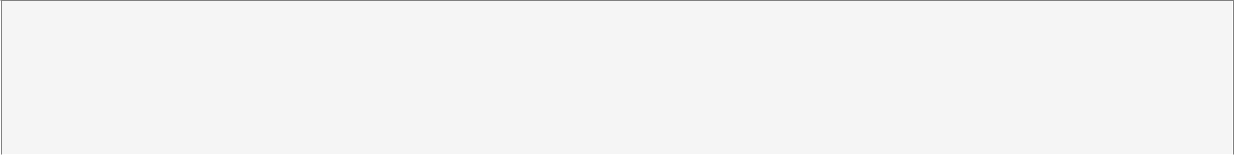
GO

ALTER TABLE [dbo].[Students] ADD CONSTRAINT [PK\_Students] PRIMARY KEY CLUSTERED ([Student\_Id]) ON [PRIMARY]

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Students

GO



ALTER TABLE [dbo].[Students] ADD CONSTRAINT [FK\_Students\_Departments] FOREIGN KEY ([Dept\_Id])

REFERENCES [dbo].[Departments] ([Department\_ID])

GO

**Uses**

[[dbo].[Departments]](#page17)

**Used By**

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

[[dbo].[Student\_Courses]](#page28)

[[dbo].[DeleteStudent]](#page48)

[[dbo].[Exam\_Answers]](#page51)

[[dbo].[Exam\_Correct]](#page53)

[[dbo].[ExamQuestions\_StudentAnswers\_ModelAnswers]](#page58)

[[dbo].[GetStudentsInDepartment]](#page64)

[[dbo].[InsertStudent]](#page76)

[[dbo].[Report6\_ExamQuestions\_StudnetAnswers]](#page80)

[[dbo].[SelectStudent]](#page93)

[[dbo].[UpdateStudent]](#page107)

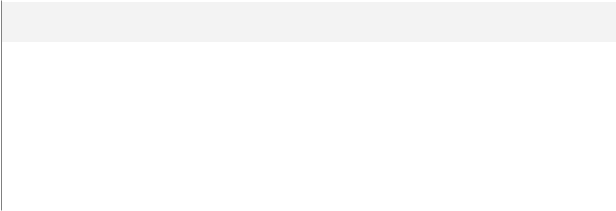
Author: Mahmoud Copyright 2024 - All Rights Reserved Page 31 of 116

Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > [Tables](#page8) > dbo.Topic



 **[dbo].[Topic]**

**Properties**



**Property**

Collation



Row Count (~)

Created



Last Modified

**Value**



SQL\_Latin1\_General\_CP1\_CI\_AS



6

7:54:18 PM Tuesday, January 30, 2024



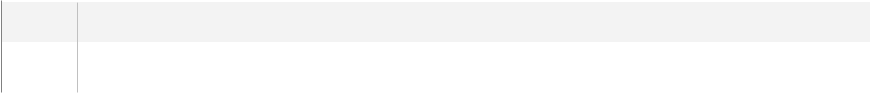
9:52:37 PM Saturday, February 3, 2024

**Columns**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key** | **Name** | **Data Type** | **Max Length (Bytes)** | **Nullability** | **Identity** |
|  |  |  |  |  |  |
|  | Topic\_Id | int | 4 | NOT NULL | 1 - 1 |
|  |  |  |  |  |  |
|  | Course\_Id | int | 4 | NOT NULL |  |
|  |  |  |  |  |  |
|  | Topic\_Name | varchar(50) | 50 | NULL allowed |  |
|  |  |  |  |  |  |



**Indexes**



**Key** **Name**

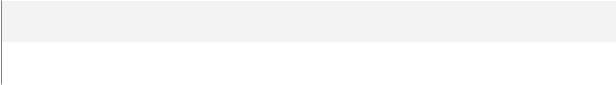
PK\_Topic



|  |  |
| --- | --- |
| **Key Columns** | **Unique** |
| Topic\_Id, Course\_Id | True |
|  |  |



**Foreign Keys**



**Name**

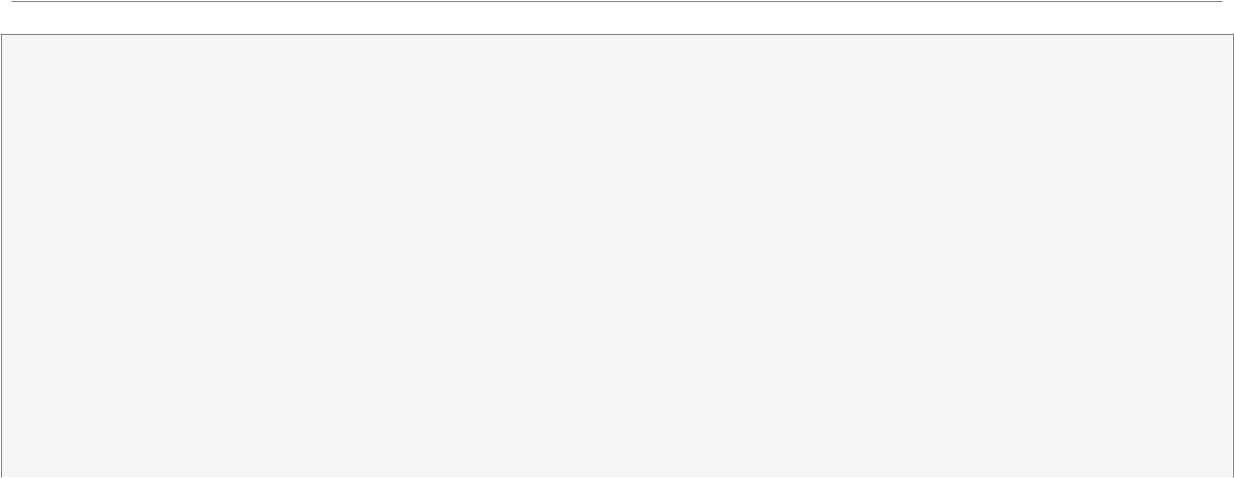
FK\_Topic\_Courses

**Columns**



Course\_Id-[>[dbo].[Courses].[Course\_Id]](#page13)

**SQL Script**



CREATE TABLE [dbo].[Topic]

(

[Topic\_Id] [int] NOT NULL IDENTITY(1, 1),

[Course\_Id] [int] NOT NULL,

[Topic\_Name] [varchar] (50) COLLATE SQL\_Latin1\_General\_CP1\_CI\_AS NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Topic] ADD CONSTRAINT [PK\_Topic] PRIMARY KEY CLUSTERED ([Topic\_Id], [Course\_Id]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Topic] ADD CONSTRAINT [FK\_Topic\_Courses] FOREIGN KEY ([Course\_Id])

REFERENCES [dbo].[Courses] ([Course\_Id])

GO

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**Uses**

[[dbo].[Courses]](#page13)

**Used By**

[[dbo].[delete\_Topic]](#page40)

[[dbo].[GetTopicsOfCourse]](#page65)

[[dbo].[insert\_Topic]](#page69)

[[dbo].[select\_Topic]](#page86)

[[dbo].[update\_Topic]](#page100)

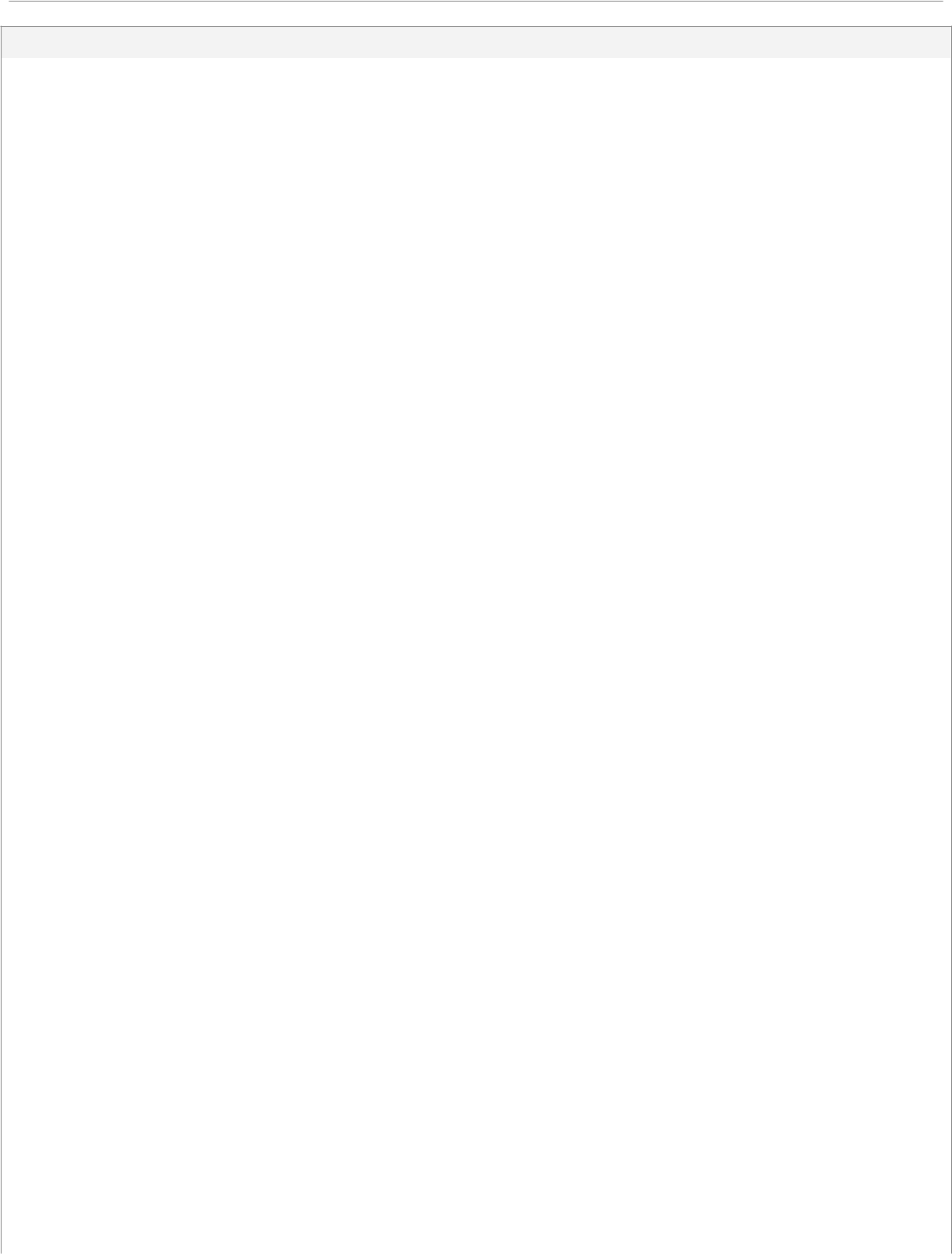
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 ***Stored Procedures***

**Objects**



**Name**

[dbo.delete\_Course](#page36)



[dbo.delete\_CourseInstructor](#page37)

[dbo.delete\_CourseInstructor2](#page38)



[dbo.delete\_Instructor](#page39)

[dbo.delete\_Topic](#page40)



[dbo.DeleteAllChoicesForQuestion](#page41)

[dbo.DeleteAnswersForQuestion](#page42)



[dbo.DeleteChoiceForQuestion](#page43)

[dbo.DeleteDepartment](#page44)



[dbo.DeleteExam](#page45)

[dbo.DeleteQuestion](#page46)



[dbo.DeleteQuestionFromExam](#page47)

[dbo.DeleteStudent](#page48)



[dbo.DeleteStudentAnswerOfQuestionInExam](#page49)

[dbo.DeleteStudentCourse](#page50)



[dbo.Exam\_Answers](#page51)

[dbo.Exam\_Correct](#page53)



[dbo.Exam\_Generation](#page56)

[dbo.ExamQuestions\_StudentAnswers\_ModelAnswers](#page58)



[dbo.GetCoursesTeachedByInstructor](#page60)

[dbo.getExamFromCrsID](#page61)



[dbo.GetStudentAnswerAndModelAnswer](#page62)

[dbo.GetStudentGradeInAllCourses](#page63)



[dbo.GetStudentsInDepartment](#page64)

[dbo.GetTopicsOfCourse](#page65)



[dbo.insert\_Course](#page66)

[dbo.insert\_CourseInstructor](#page67)



[dbo.insert\_Instructor](#page68)

[dbo.insert\_Topic](#page69)



[dbo.InsertAnswerForQuestion](#page70)

[dbo.InsertChoiceForQuestion](#page71)



[dbo.InsertDepartment](#page72)

[dbo.InsertExam](#page73)



[dbo.InsertQuestion](#page74)

[dbo.InsertQuestionInExam](#page75)



[dbo.InsertStudent](#page76)

[dbo.InsertStudentAnswerOfQuestionInExam](#page77)

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[dbo.InsertStudentCourse](#page78)

[dbo.questionsAndChoicesFromExamID](#page79)



[dbo.Report6\_ExamQuestions\_StudnetAnswers](#page80)

[dbo.select\_Course](#page82)



[dbo.select\_CourseInstructor](#page83)

[dbo.select\_CourseInstructor2](#page84)



[dbo.select\_Instructor](#page85)

[dbo.select\_Topic](#page86)



[dbo.SelectAnswerForQuestion](#page87)

[dbo.SelectChoices](#page88)



[dbo.SelectDepartment](#page89)

[dbo.SelectExam](#page90)



[dbo.SelectExamQuestion](#page91)

[dbo.SelectQuestion](#page92)



[dbo.SelectStudent](#page93)

[dbo.SelectStudentAnswerOfQuestionInExam](#page94)



[dbo.SelectStudentCourse](#page95)

[dbo.update\_Course](#page96)



[dbo.update\_CourseInstructor](#page97)

[dbo.update\_CourseInstructor2](#page98)



[dbo.update\_Instructor](#page99)

[dbo.update\_Topic](#page100)



[dbo.UpdateAnswerForQuestion](#page101)

[dbo.UpdateChoiceForQuestion](#page102)



[dbo.UpdateDepartment](#page103)

[dbo.UpdateExam](#page104)



[dbo.UpdateQuestion](#page105)

[dbo.UpdateQuestionInExam](#page106)



[dbo.UpdateStudent](#page107)

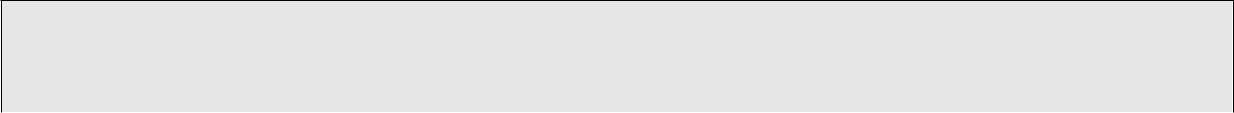
[dbo.UpdateStudentAnswerOfQuestionInExam](#page108)



[dbo.UpdateStudentCourse](#page109)

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 **[dbo].[delete\_Course]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



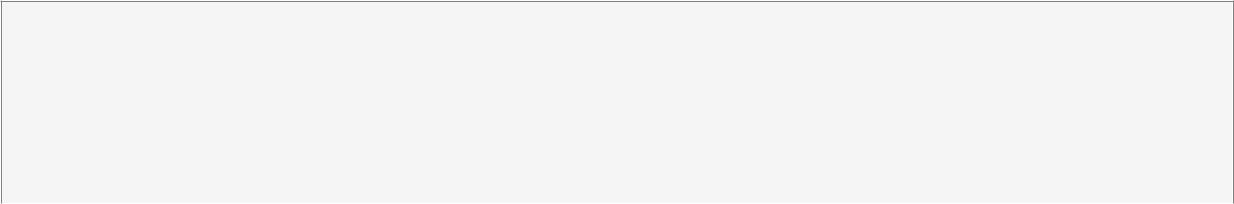
**Name**

@Course\_ID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[delete\_Course] @Course\_ID int as

delete from Courses

where Course\_Id = @Course\_ID

GO

**Uses**

[[dbo].[Courses]](#page13)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.delete\_-CourseInstructor



 **[dbo].[delete\_CourseInstructor]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



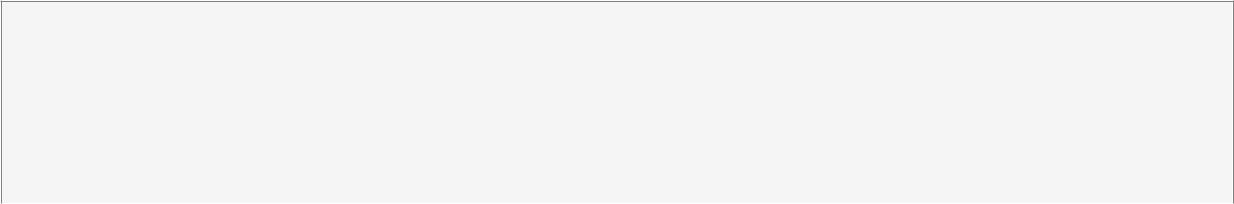
**Name**

@Course\_ID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[delete\_CourseInstructor] @Course\_ID int as

delete from Courses\_Instructor

where Course\_Id = @Course\_ID

GO

**Uses**

[[dbo].[Courses\_Instructor]](#page15)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.delete\_-CourseInstructor2



 **[dbo].[delete\_CourseInstructor2]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



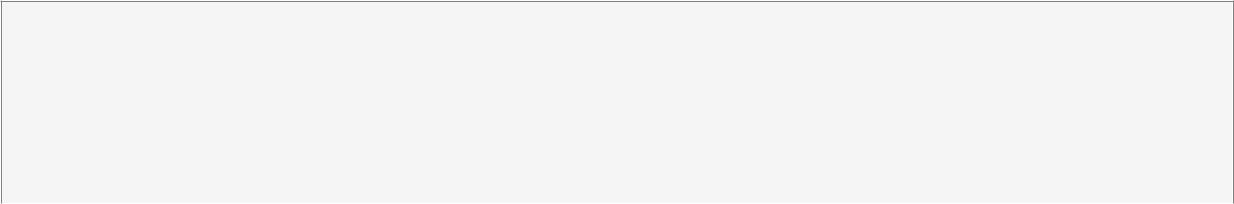
**Name**

@Instructor\_ID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[delete\_CourseInstructor2] @Instructor\_ID int as

delete from Courses\_Instructor

where Ins\_Id = @Instructor\_ID

GO

**Uses**

[[dbo].[Courses\_Instructor]](#page15)

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 **[dbo].[delete\_Instructor]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



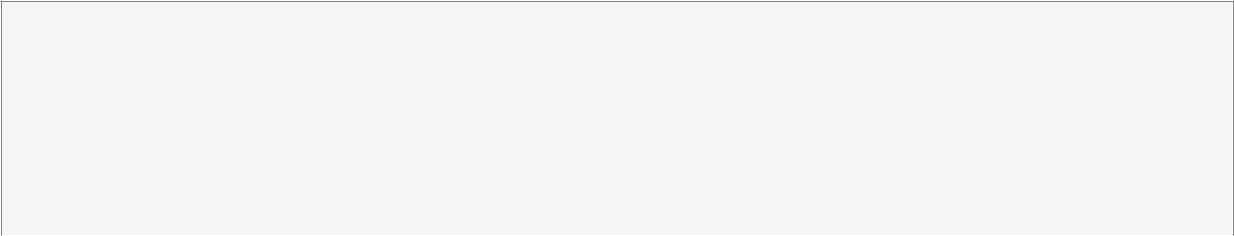
**Name**

@InstructorID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



--4 delete by instructor\_ID

create proc [dbo].[delete\_Instructor] @InstructorID int as

delete from Instructors

where Instructor\_Id = @InstructorID

GO

**Uses**

[[dbo].[Instructors]](#page22)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.delete\_-Topic



 **[dbo].[delete\_Topic]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



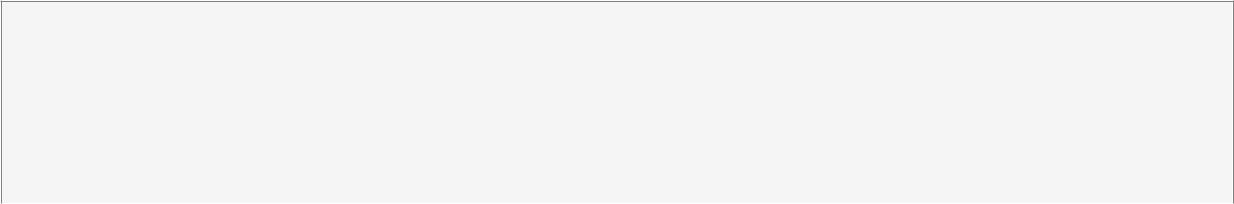
**Name**

@TopicID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[delete\_Topic] @TopicID int

as

delete from Topic

where Topic\_Id = @TopicID

GO

**Uses**

[[dbo].[Topic]](#page32)

Author: Mahmoud Copyright 2024 - All Rights Reserved Page 40 of 116

Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.DeleteAll-ChoicesForQuestion



 **[dbo].[DeleteAllChoicesForQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



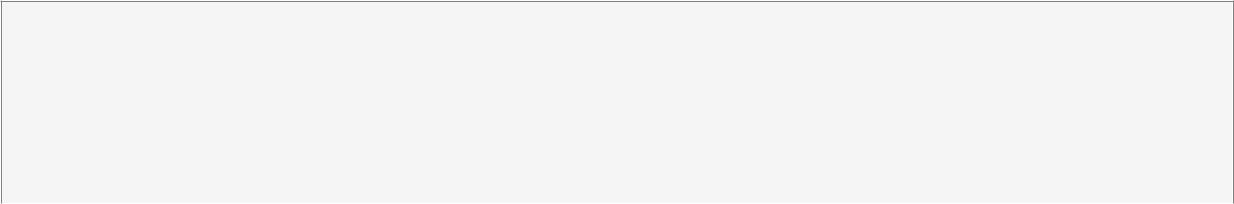
**Name**

@Quest\_id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[DeleteAllChoicesForQuestion] @Quest\_id int as

delete from Choices

where Question\_Id = @Quest\_id

GO

**Uses**

[[dbo].[Choices]](#page11)

Author: Mahmoud Copyright 2024 - All Rights Reserved Page 41 of 116

Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Delete-AnswersForQuestion



 **[dbo].[DeleteAnswersForQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



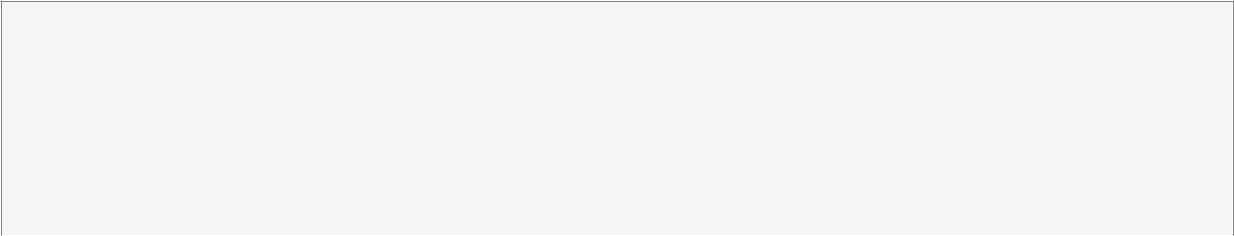
**Name**

@Quest\_id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[DeleteAnswersForQuestion] @Quest\_id int as

delete from Answers

where Question\_Id = @Quest\_id

GO

**Uses**

[[dbo].[Answers]](#page9)

Author: Mahmoud Copyright 2024 - All Rights Reserved Page 42 of 116

Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Delete-ChoiceForQuestion



 **[dbo].[DeleteChoiceForQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

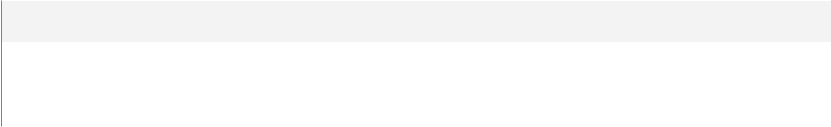


True



True

**Parameters**



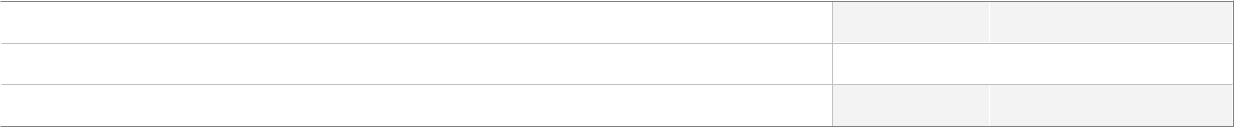
**Name**

@Quest\_id

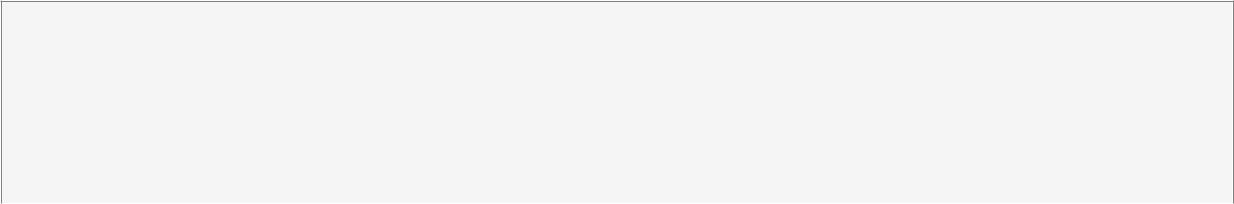


@choice\_id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(50) | 50 |
|  |  |



**SQL Script**



CREATE proc [dbo].[DeleteChoiceForQuestion] @Quest\_id int , @choice\_id varchar(50) as

delete from Choices

where Question\_Id = @Quest\_id and Choice\_Number = @choice\_id

GO

**Uses**

[[dbo].[Choices]](#page11)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Delete-Department



 **[dbo].[DeleteDepartment]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



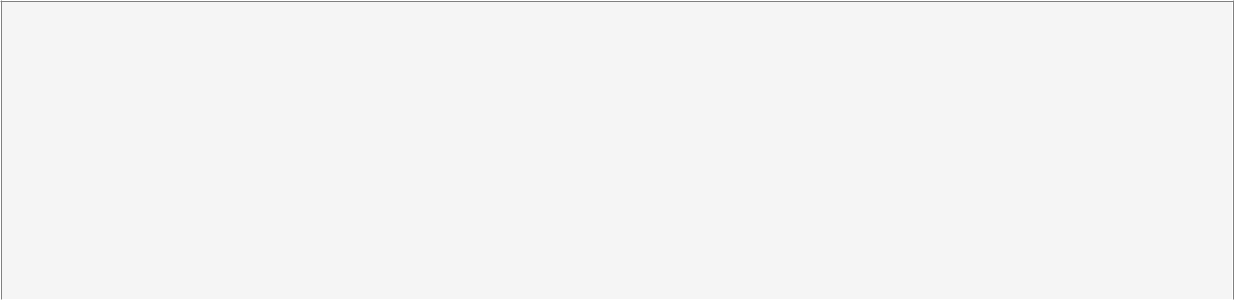
**Name**

@DepartmentID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[DeleteDepartment]

@DepartmentID INT

AS

BEGIN

DELETE FROM Departments WHERE Department\_ID = @DepartmentID;

END;

GO

**Uses**

[[dbo].[Departments]](#page17)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Delete-Exam



 **[dbo].[DeleteExam]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



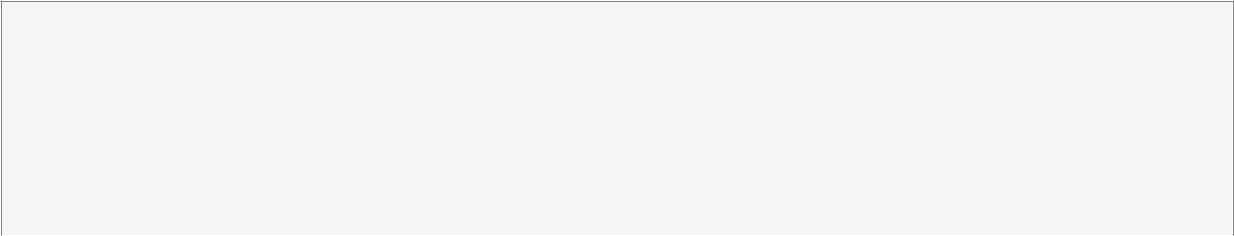
**Name**

@Exam\_id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[DeleteExam] @Exam\_id int

as

delete from Exams

where Exam\_Id = @Exam\_id

GO

**Uses**

[[dbo].[Exams]](#page20)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Delete-Question



 **[dbo].[DeleteQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



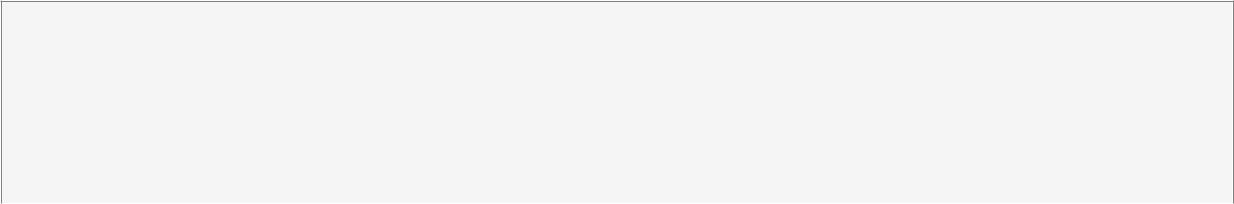
**Name**

@id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[DeleteQuestion] @id int

as

delete from Questions

where Question\_Id = @id

GO

**Uses**

[[dbo].[Questions]](#page24)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Delete-QuestionFromExam



 **[dbo].[DeleteQuestionFromExam]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

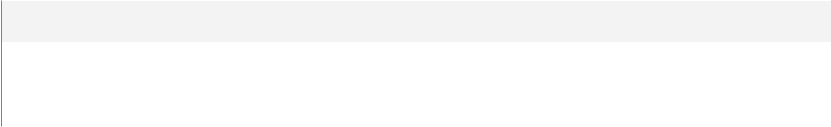


True



True

**Parameters**



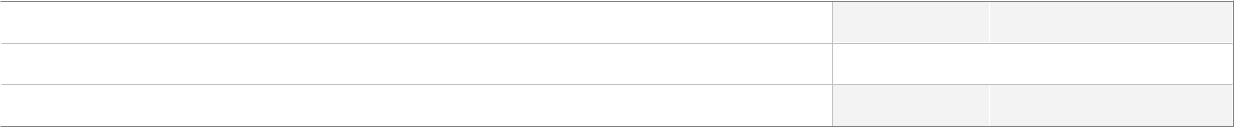
**Name**

@Quest\_id

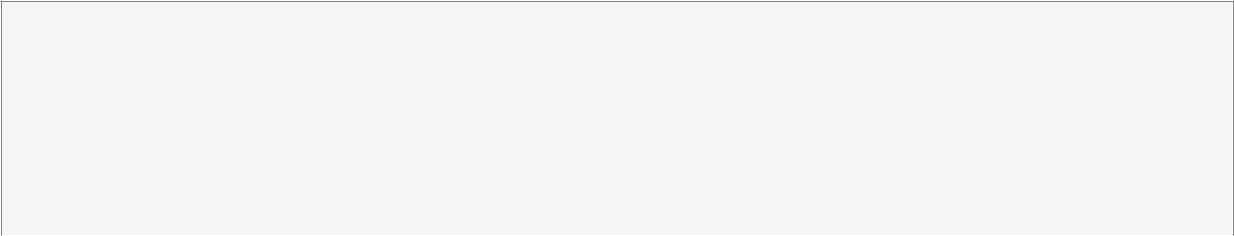


@Exam\_name

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(50) | 50 |
|  |  |



**SQL Script**



CREATE proc [dbo].[DeleteQuestionFromExam] @Quest\_id int ,@Exam\_name varchar(50) as

delete eq

from Exams e , Exam\_Questions eq

where e.Exam\_Id=eq.Exam\_ID and e.Exam\_Name = @Exam\_name

GO

**Uses**

[[dbo].[Exam\_Questions]](#page18)

[[dbo].[Exams]](#page20)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Delete-Student



 **[dbo].[DeleteStudent]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



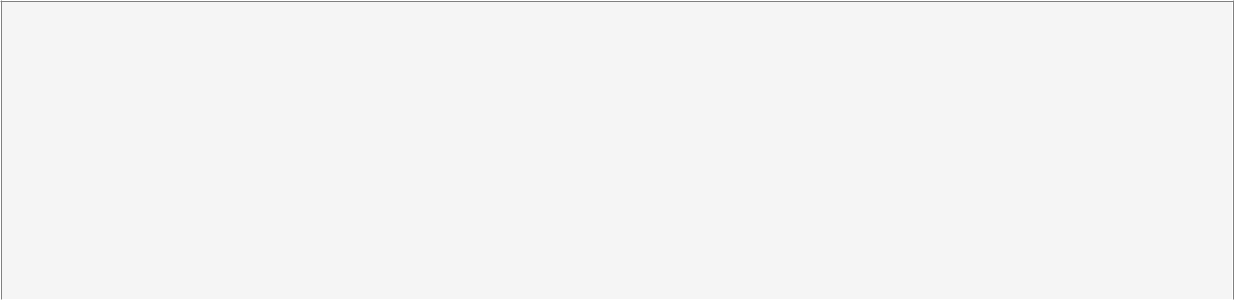
**Name**

@StudentID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[DeleteStudent]

@StudentID INT

AS

BEGIN

DELETE FROM Students WHERE Student\_Id = @StudentID;

END;

GO

**Uses**

[[dbo].[Students]](#page30)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Delete-StudentAnswerOfQuestionInExam



 **[dbo].[DeleteStudentAnswerOfQuestionInExam]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

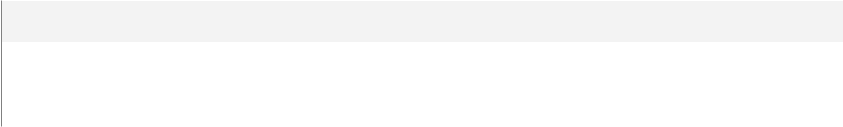


True



True

**Parameters**



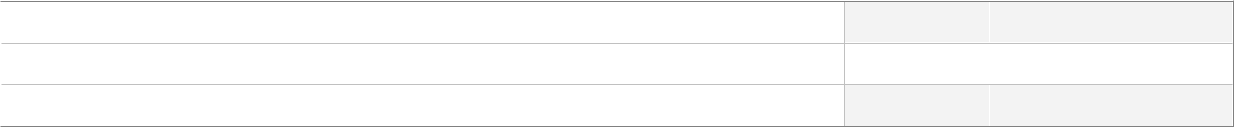
**Name**

@stud\_Id

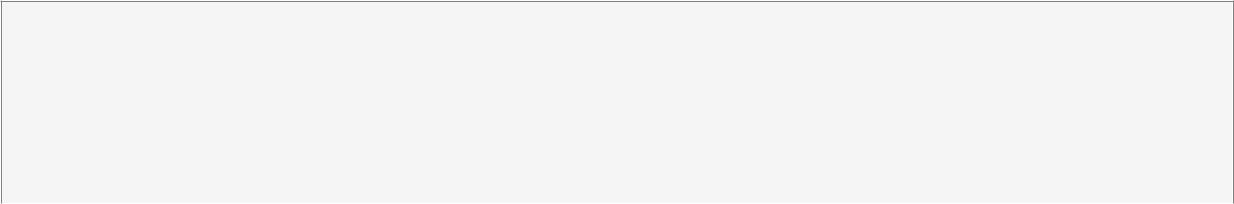


@Quest\_Id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[DeleteStudentAnswerOfQuestionInExam] @stud\_Id int , @Quest\_Id int as

delete from Student\_Answer\_In\_Exam

where Student\_Id = @stud\_Id and Question\_Id = @Quest\_Id

GO

**Uses**

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Delete-StudentCourse



 **[dbo].[DeleteStudentCourse]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

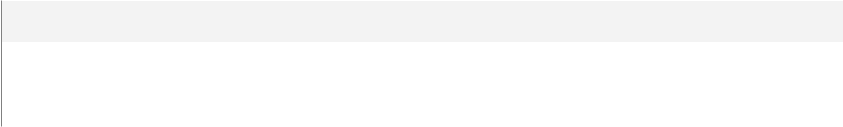


True



True

**Parameters**



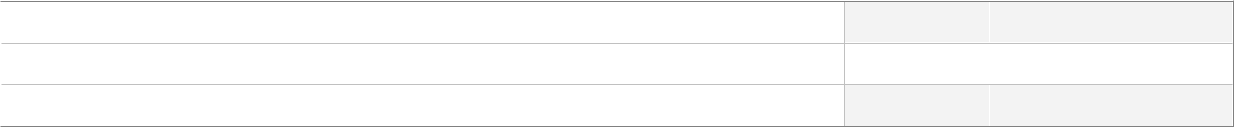
**Name**

@StudentID

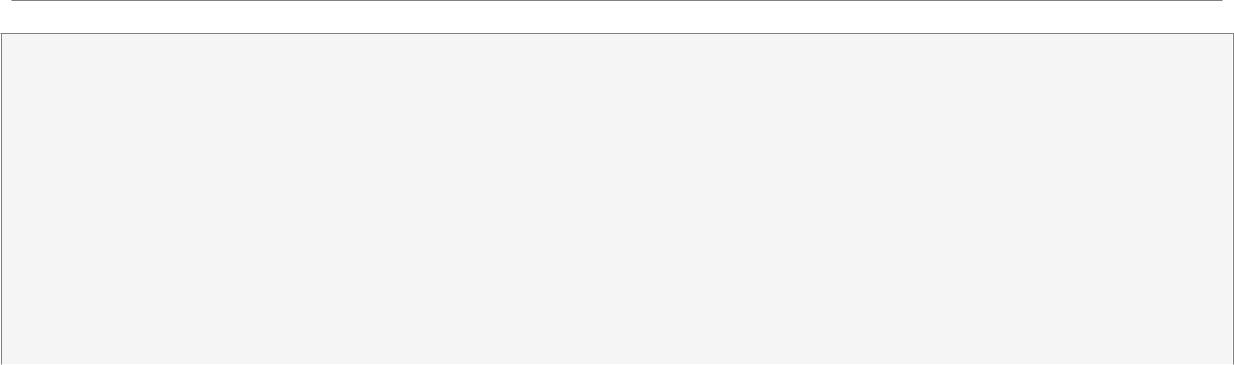


@CourseID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[DeleteStudentCourse]

@StudentID INT,

@CourseID INT

AS

BEGIN

DELETE FROM Student\_Courses

WHERE Student\_Id = @StudentID AND Course\_Id = @CourseID;

END;

GO

**Uses**

[[dbo].[Student\_Courses]](#page28)

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 **[dbo].[Exam\_Answers]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**

**Name**

@exam\_id

@std\_Id

@Ans\_1

@Ans\_2

@Ans\_3

@Ans\_4

@Ans\_5

@Ans\_6

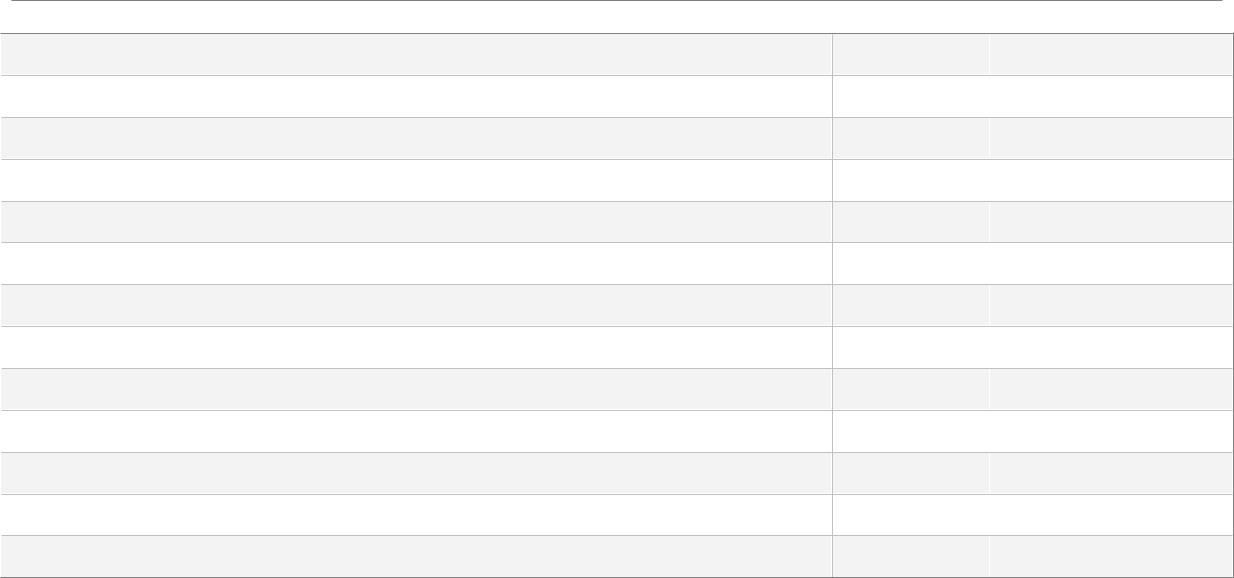
@Ans\_7

@Ans\_8

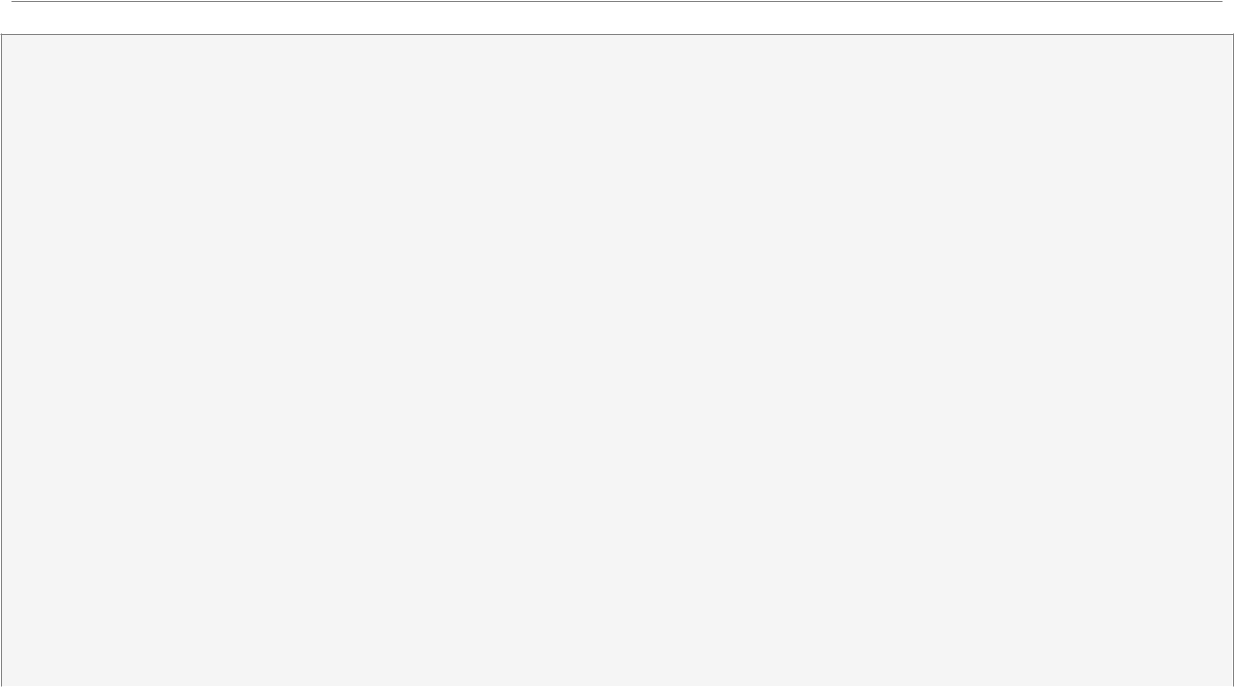
@Ans\_9

@Ans\_10

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
| varchar(50) | 50 |
| varchar(50) | 50 |
| varchar(50) | 50 |
| varchar(50) | 50 |
| varchar(50) | 50 |
| varchar(50) | 50 |
| varchar(50) | 50 |
| varchar(50) | 50 |
| varchar(50) | 50 |
| varchar(50) | 50 |
|  |  |



**SQL Script**



CREATE proc [dbo].[Exam\_Answers] @exam\_id int /\* 2 \*/ , @std\_Id int /\*1 \*/ , @Ans\_1 varchar(50),@Ans\_2 varchar(50)

,@Ans\_3 varchar(50),@Ans\_4 varchar(50),@Ans\_5 varchar(50),@Ans\_6

varchar(50),

@Ans\_7 varchar(50),@Ans\_8 varchar(50),@Ans\_9 varchar(50),@Ans\_10

varchar(50)

as

if not exists(select Exams.Exam\_Id From Exams where Exams.Exam\_Id = @exam\_id) begin

RAISERROR('Invalid Exam ID', 16, 1);

return;

end

if not exists(select Students.Student\_Id From Students where Students.Student\_Id = @std\_Id)

begin

RAISERROR('Invalid Student ID', 16, 1);

return;

end

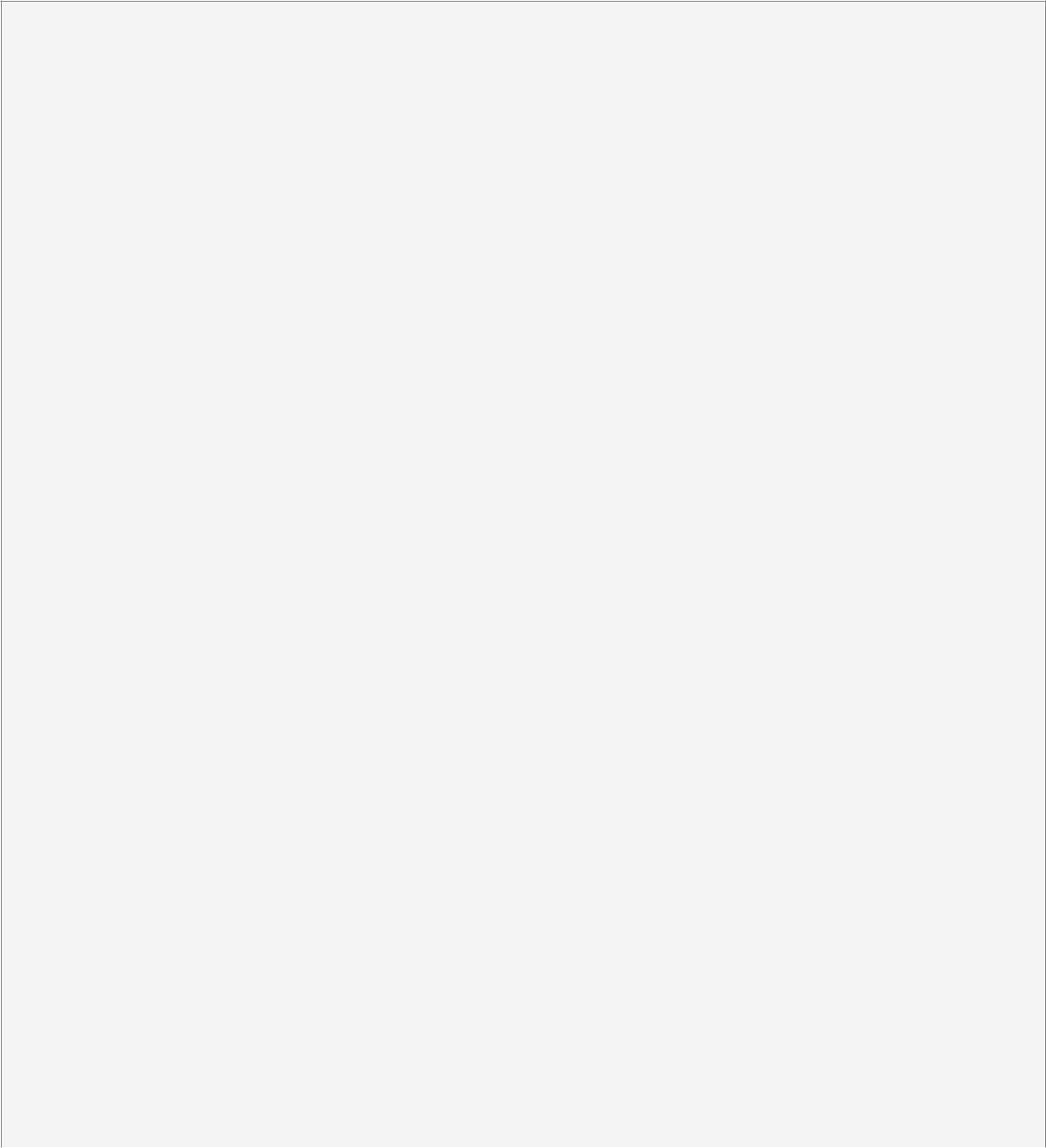
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[SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Exam\_-

Answers

Declare @CourseID int;



Select @CourseID = Exams.Course\_Id From Exams where Exams.Exam\_Id = @exam\_id

if exists (

Select Student\_Courses.Student\_Id

From Student\_Courses

Where Student\_Id= @std\_Id and Course\_Id = @CourseID and StudentGrade IS NOT NULL)

begin

RAISERROR('Student Has already took this exam!', 16, 1); return;

end

declare @indx int =0 , @Quest\_id int

while @indx <10

begin

set @indx +=1

select @Quest\_id=Question\_Id from(

select \* , ROW\_NUMBER() over (partition by Exam\_ID order by Question\_Id) as RN

from Exam\_Questions

where Exam\_ID = @exam\_id

) as Newtable Where RN =@indx

declare @Answer varchar(50) = CASE @indx

WHEN 1 THEN @Ans\_1

WHEN 2 THEN @Ans\_2

WHEN 3 THEN @Ans\_3

WHEN 4 THEN @Ans\_4

WHEN 5 THEN @Ans\_5

WHEN 6 THEN @Ans\_6

WHEN 7 THEN @Ans\_7

WHEN 8 THEN @Ans\_8

WHEN 9 THEN @Ans\_9

WHEN 10 THEN @Ans\_10

END

exec InsertStudentAnswerOfQuestionInExam @std\_Id,@Quest\_id,@exam\_id,@Answer

end

GO

**Uses**

[[dbo].[Exam\_Questions]](#page18)

[[dbo].[Exams]](#page20)

[[dbo].[Student\_Courses]](#page28)

[[dbo].[Students]](#page30)

[[dbo].[InsertStudentAnswerOfQuestionInExam]](#page77)

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 **[dbo].[Exam\_Correct]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

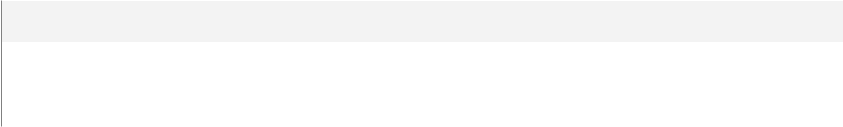


True



True

**Parameters**



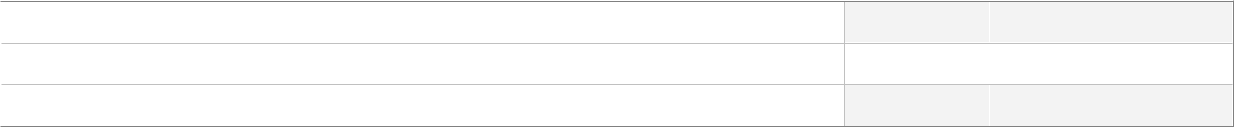
**Name**

@ExamID

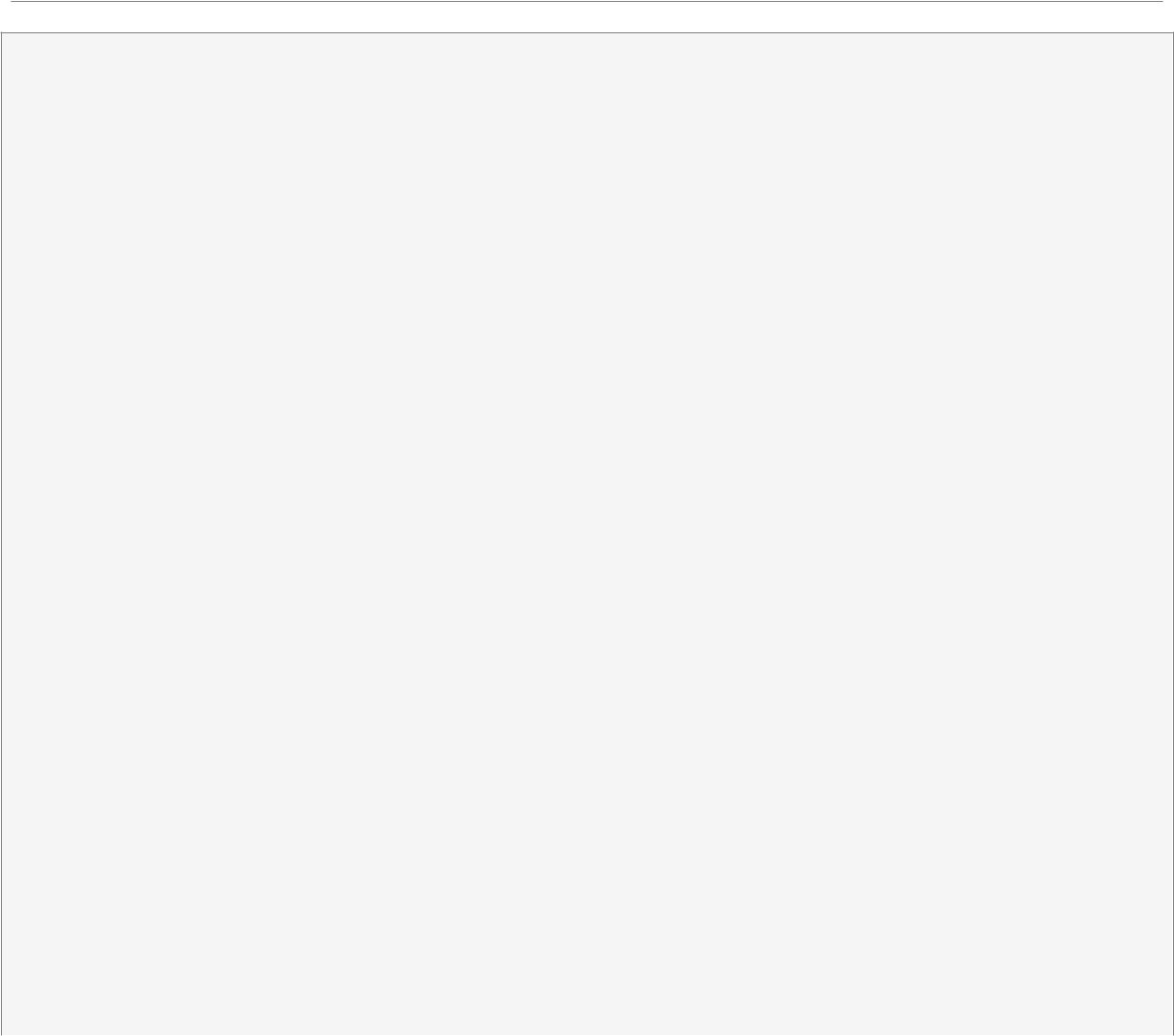


@StudentID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[Exam\_Correct] @ExamID int, @StudentID int AS

if not exists(select Exams.Exam\_Id From Exams where Exams.Exam\_Id = @ExamID) begin

RAISERROR('Invalid Exam ID', 16, 1);

return;

end

if not exists(select Students.Student\_Id From Students where Students.Student\_Id = @StudentID)

begin

RAISERROR('Invalid Student ID', 16, 1);

return;

end

Declare @StudentGrade decimal(18,2) = 0;

Declare @totalGrade int = 0;

DECLARE @SavedResult TABLE (

Question\_Id INT,

Student\_Answer VARCHAR(255),

Answer\_Value VARCHAR(255),

Grade INT

);

INSERT INTO @SavedResult (Question\_Id, Student\_Answer, Answer\_Value, Grade) SELECT Student\_Answer\_In\_Exam.Question\_Id, Student\_Answer\_In\_Exam.Student\_Answer,

Answers.Value, Questions.Grade

FROM Student\_Answer\_In\_Exam, Questions, Answers

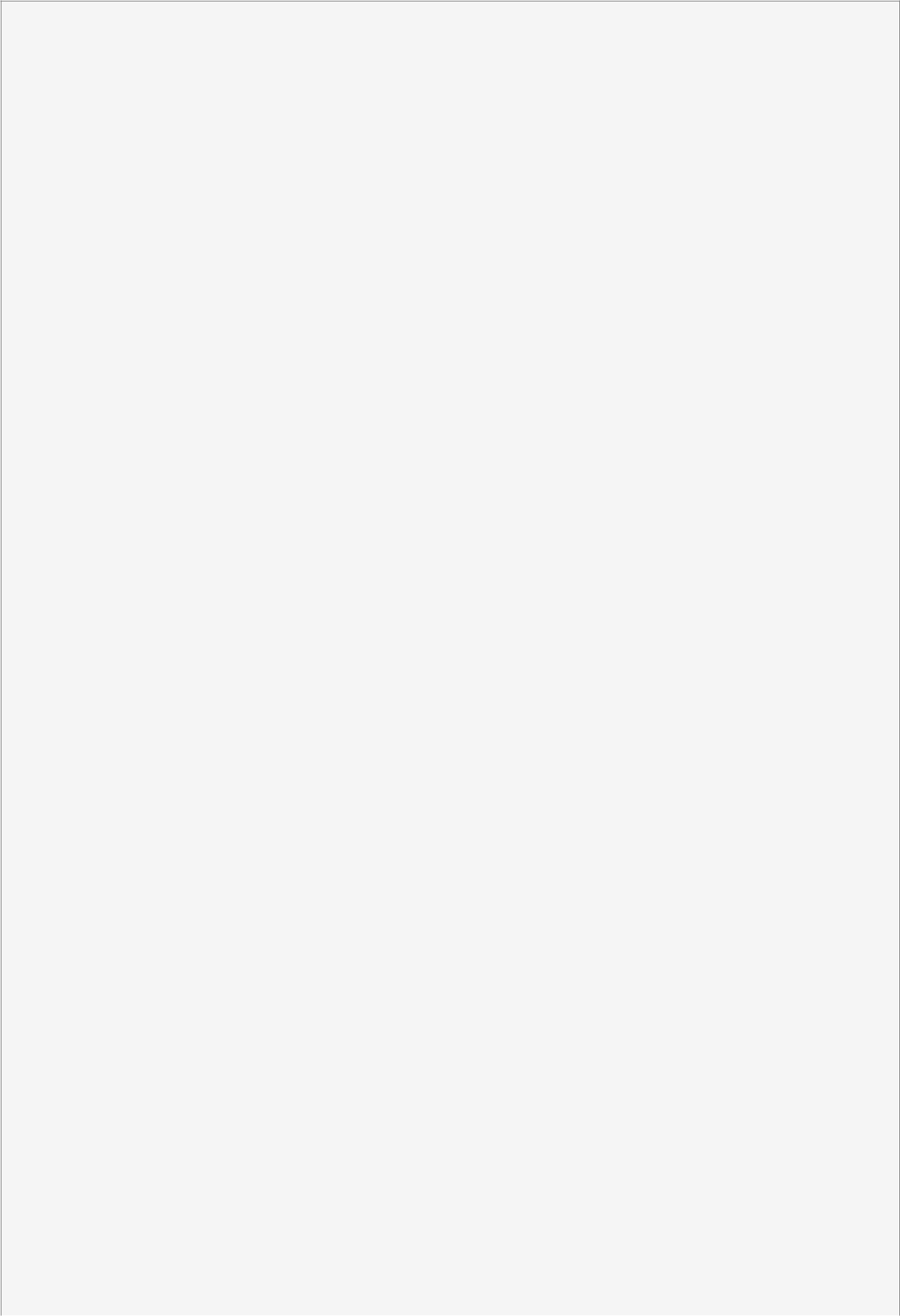
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[SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Exam\_-

Correct

WHERE Student\_Answer\_In\_Exam.Question\_Id = Questions.Question\_Id



AND Answers.Question\_Id = Questions.Question\_Id

AND Student\_Id = @StudentID

AND Exam\_Id = @ExamID;

Declare @tableRows int;

Select @tableRows = count(\*) From @SavedResult;

if ( @tableRows = 0 )

begin

RAISERROR('This student did not take this exam!', 16, 1); return;

end

DECLARE @Student\_Answer VARCHAR(255);

DECLARE @Answer\_Value VARCHAR(255);

DECLARE @Grade INT;

DECLARE cursor\_saved\_result CURSOR FOR

SELECT Student\_Answer, Answer\_Value, Grade

FROM @SavedResult;

OPEN cursor\_saved\_result;

FETCH NEXT FROM cursor\_saved\_result INTO @Student\_Answer, @Answer\_Value, @Grade;

WHILE @@FETCH\_STATUS = 0

BEGIN

set @totalGrade += @Grade;

if (@Student\_Answer = @Answer\_Value)

Set @StudentGrade += @Grade;

FETCH cursor\_saved\_result INTO @Student\_Answer, @Answer\_Value, @Grade;

END

CLOSE cursor\_saved\_result;

DEALLOCATE cursor\_saved\_result;

set @StudentGrade = (@StudentGrade / @totalGrade) \* 100;

Declare @CourseID int;

Select @CourseID = Exams.Course\_Id

From Exams

Where Exams.Exam\_Id = @ExamID

declare @old\_grade decimal(18,2)

select @old\_grade = StudentGrade

From Student\_Courses

Where Student\_Id = @StudentID and @CourseID = Course\_Id

if (@old\_grade is NULL)

exec UpdateStudentCourse @StudentID, @CourseID, @StudentGrade

else

exec InsertStudentCourse @StudentID, @CourseID, @StudentGrade

GO

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**Uses**

[[dbo].[Answers]](#page9)

[[dbo].[Exams]](#page20)

[[dbo].[Questions]](#page24)

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

[[dbo].[Student\_Courses]](#page28)

[[dbo].[Students]](#page30)

[[dbo].[InsertStudentCourse]](#page78)

[[dbo].[UpdateStudentCourse]](#page109)

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 **[dbo].[Exam\_Generation]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

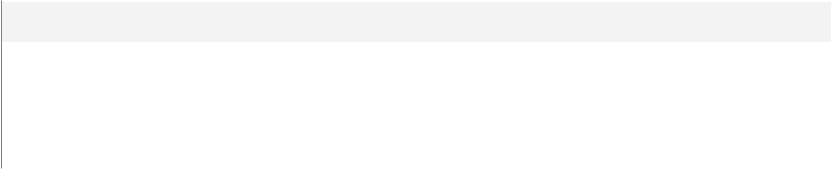


True



True

**Parameters**



**Name**

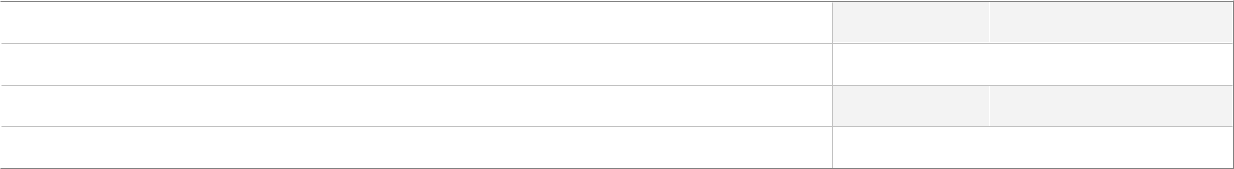
@Crs\_Name



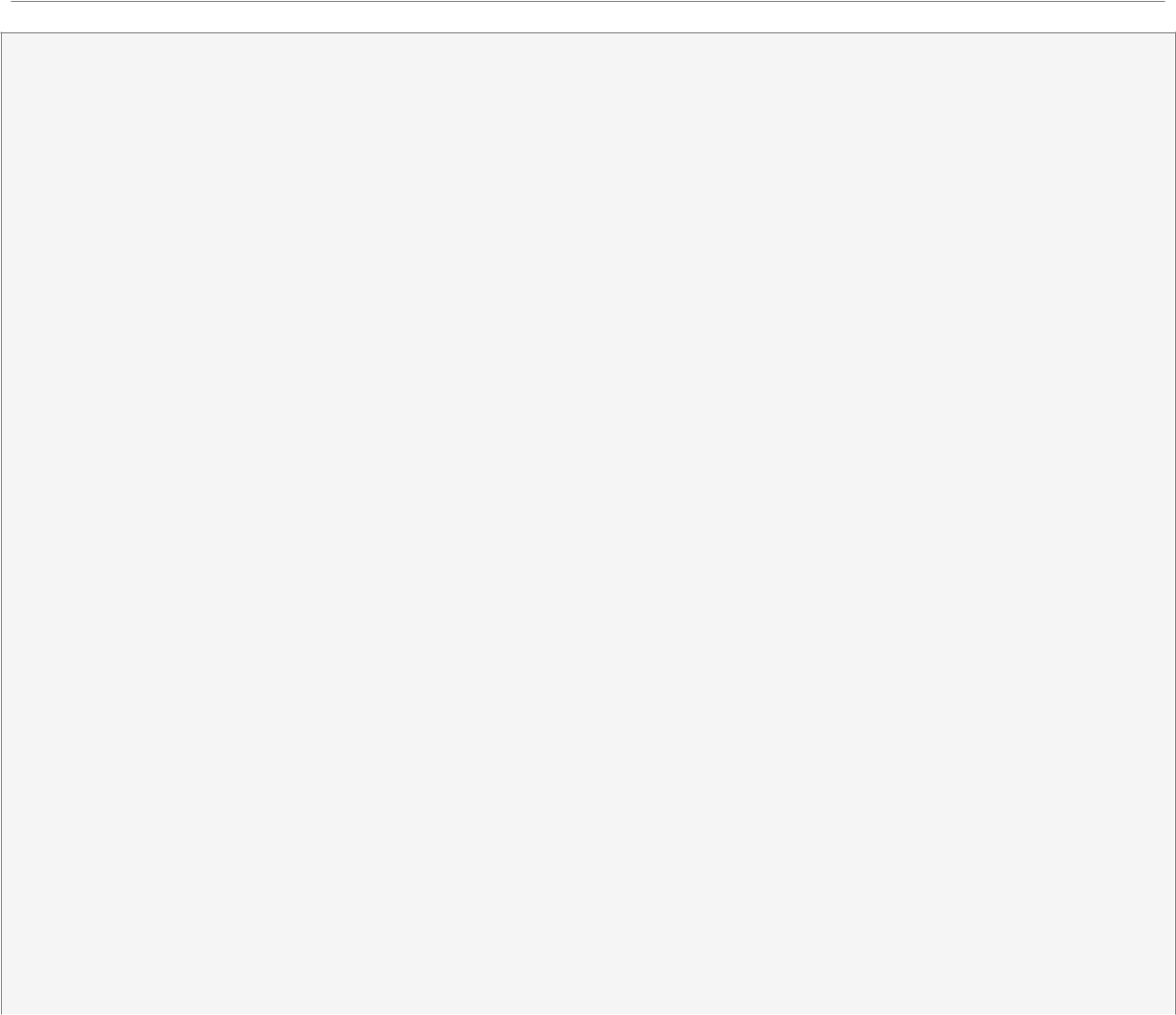
@num\_MCQ

@num\_ToF

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| varchar(10) | 10 |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[Exam\_Generation] @Crs\_Name varchar(10), @num\_MCQ int ,@num\_ToF int as

if not exists(select c.Course\_Name from Courses c where c.Course\_Name = @Crs\_Name) begin

RAISERROR('Invalid Course Name', 16, 1);

return;

end

if @num\_MCQ + @num\_ToF = 10

BEGIN

DECLARE @crsID int

Select @crsID = Courses.Course\_Id From Courses where Courses.Course\_Name = @Crs\_Name

DECLARE @LastExam int

Select @LastExam =

Count(Exams.Exam\_Id)

From Exams

Group By Course\_ID

Having Course\_Id = @crsID

declare @ExamName varchar(50) =concat(@Crs\_Name + ' ',(ISNULL (@LastExam,0) + 1)) exec InsertExam @ExamName,'1',@crsID;

DECLARE @ExmId INT

SET @ExmId = ISNULL((select top(1) Exam\_Id from Exams order by Exam\_Id DESC),1)

insert into Exam\_Questions

select top(@num\_MCQ) q.Question\_Id , @ExmId from Questions q ,Courses c

where q.Question\_Type = 'MCQ' and c.Course\_Id = q.Course\_Id and c.Course\_Name = @Crs\_-

Name

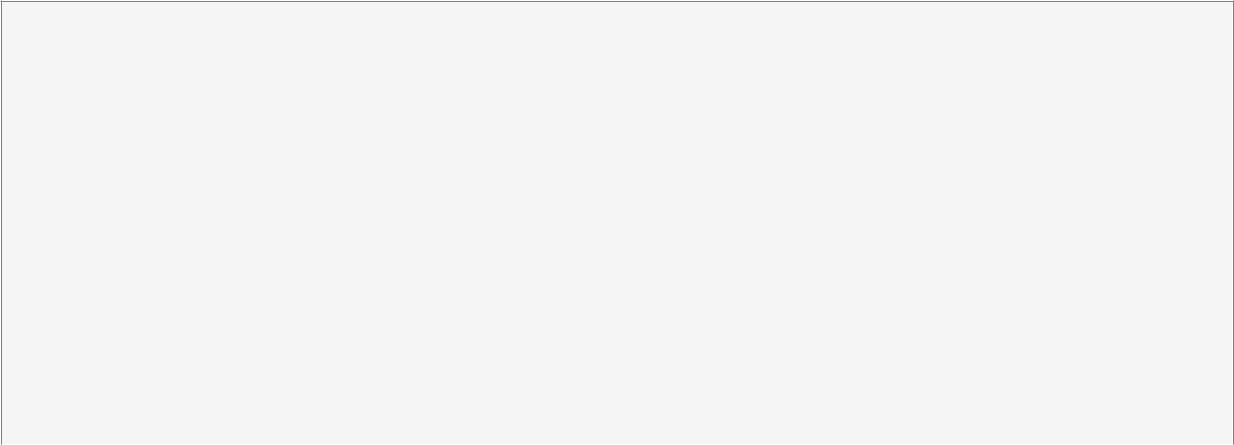
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[SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Exam\_-

Generation

order by NEWID()



insert into Exam\_Questions

select top(@num\_ToF) q.Question\_Id , @ExmId from Questions q ,Courses c

where q.Question\_Type = 'T/F' and c.Course\_Id = q.Course\_Id and c.Course\_Name = @Crs\_-

Name

order by NEWID()

End

else

RAISERROR('Invalid Parameter', 16, 1);

GO

**Uses**

[[dbo].[Courses]](#page13)

[[dbo].[Exam\_Questions]](#page18)

[[dbo].[Exams]](#page20)

[[dbo].[Questions]](#page24)

[[dbo].[InsertExam]](#page73)

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 **[dbo].[ExamQuestions\_StudentAnswers\_ModelAnswers]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

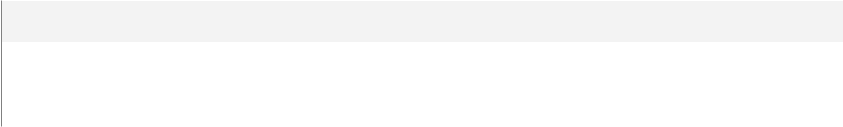


True



True

**Parameters**



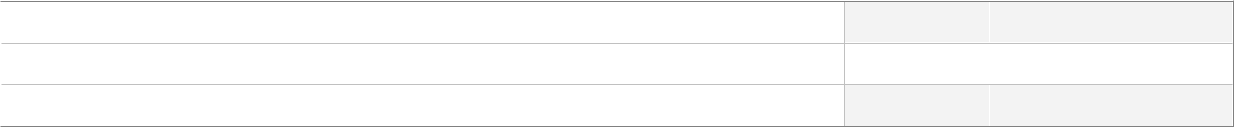
**Name**

@examID

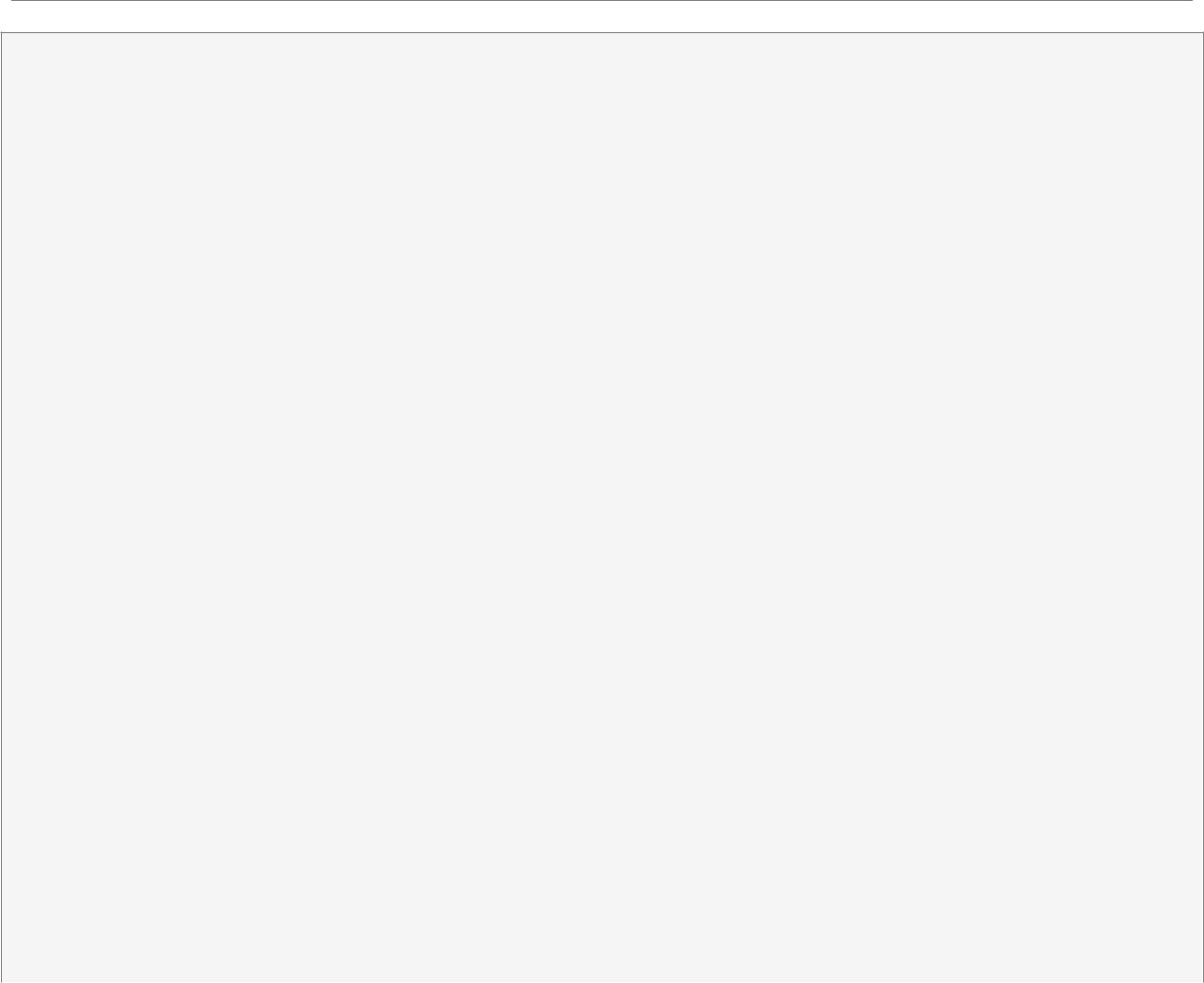


@studentID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



CREATE PROCEDURE [dbo].[ExamQuestions\_StudentAnswers\_ModelAnswers]

(

@examID INT,

@studentID INT

)

AS

BEGIN

IF NOT EXISTS (SELECT 1 FROM Exams WHERE Exam\_Id = @examID)

BEGIN

RAISERROR('Invalid Exam ID', 16, 1);

RETURN;

END

IF NOT EXISTS (SELECT 1 FROM Students WHERE Student\_Id = @studentID)

BEGIN

RAISERROR('Invalid Student ID', 16, 1);

RETURN;

END

SELECT q.Content AS Question,

CONCAT(a.Value,') ', mc.Content) AS ModelAnswer, s.Student\_Answer AS StudentAnswer

FROM Questions q

JOIN Student \_Answer\_In\_Exam s ON s.Question\_ID = q.Question\_Id JOIN Answers a ON a.Question\_ID = q.Question\_Id

JOIN Choices mc ON a.Value = mc.Choice\_Number AND q.Question\_Id = mc.Question\_Id WHERE s.Exam\_Id = @examID AND s.Student\_Id = @studentID;

END

GO

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**Uses**

[[dbo].[Answers]](#page9)

[[dbo].[Choices]](#page11)

[[dbo].[Exams]](#page20)

[[dbo].[Questions]](#page24)

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

[[dbo].[Students]](#page30)

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 **[dbo].[GetCoursesTeachedByInstructor]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



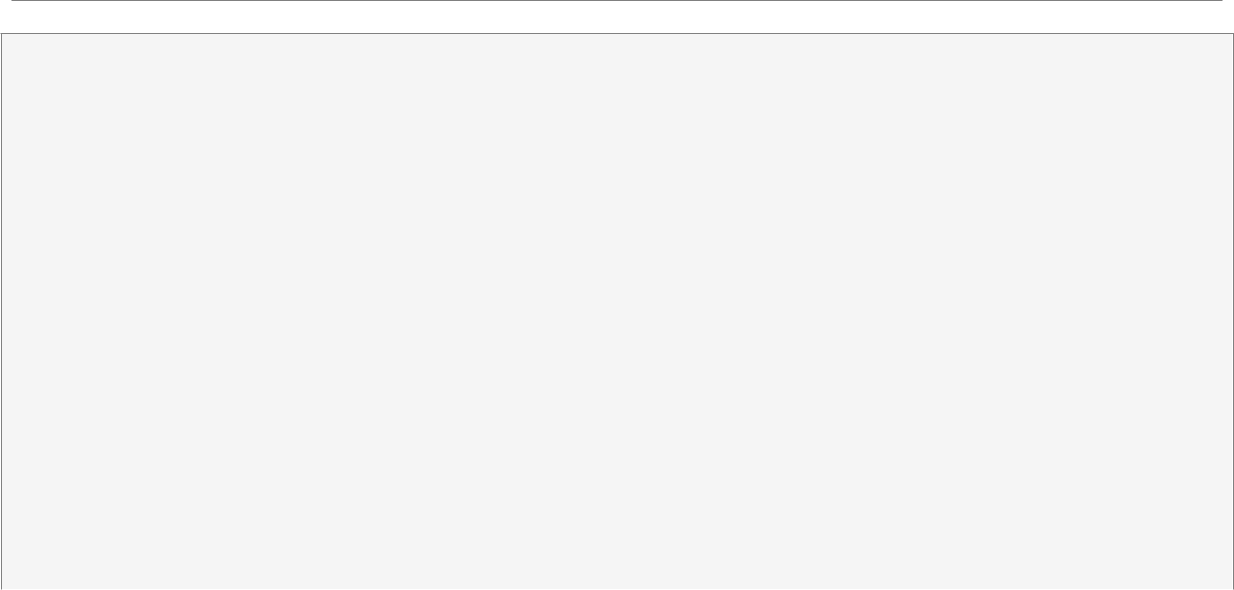
**Name**

@insID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[GetCoursesTeachedByInstructor] @insID int as

if(@insID not in (select Instructor\_Id from Instructors))

begin

RAISERROR('Invalid Instructor ID', 16, 1);

return;

end

select i.Instructor\_Name,c.Course\_Name , COUNT(sc.Student\_Id) as [Number Of Students] from Instructors i , Courses\_Instructor ci , Courses c,Student\_Courses sc where i.Instructor\_Id = ci.Ins\_Id and

c.Course\_Id = ci.Course\_Id and

sc.Course\_Id = c.Course\_Id and

i.Instructor\_Id = @insID

group by sc.Course\_Id,i.Instructor\_Name,c.Course\_Name , c.Course\_Id

GO

**Uses**

[[dbo].[Courses]](#page13)

[[dbo].[Courses\_Instructor]](#page15)

[[dbo].[Instructors]](#page22)

[[dbo].[Student\_Courses]](#page28)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.getExam-FromCrsID



 **[dbo].[getExamFromCrsID]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

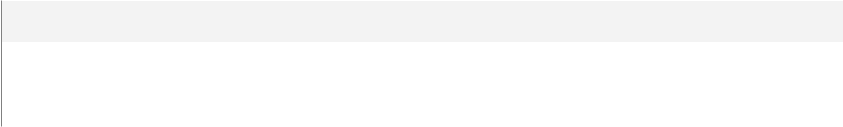


True



True

**Parameters**



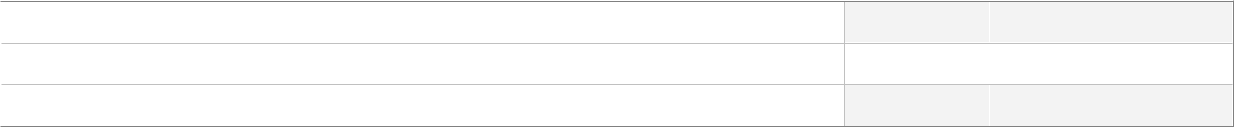
**Name**

@crs\_id

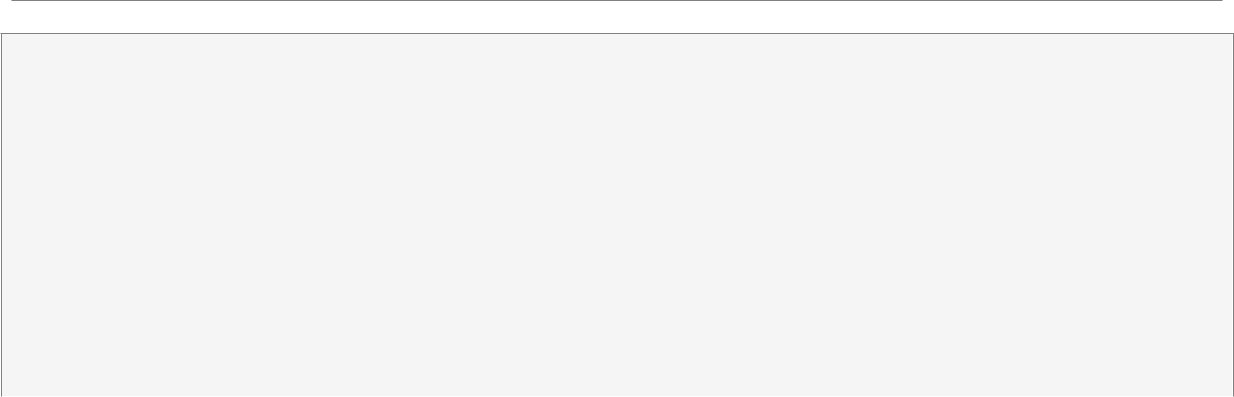


@studID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[getExamFromCrsID] @crs\_id int , @studID int as

select distinct e.Exam\_Id from Exams e ,Student\_Courses sc , Student\_Answer\_In\_Exam sa where @crs\_id = e.Course\_Id and

sc.Student\_Id = @studID and

sc.Course\_Id = @crs\_id and

sa.Student\_Id = @studID and

sa.Exam\_Id = e.Exam\_Id

GO

**Uses**

[[dbo].[Exams]](#page20)

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

[[dbo].[Student\_Courses]](#page28)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Get-StudentAnswerAndModelAnswer



 **[dbo].[GetStudentAnswerAndModelAnswer]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

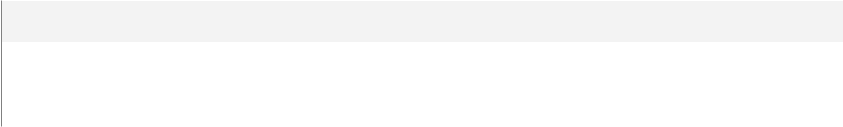


True



True

**Parameters**



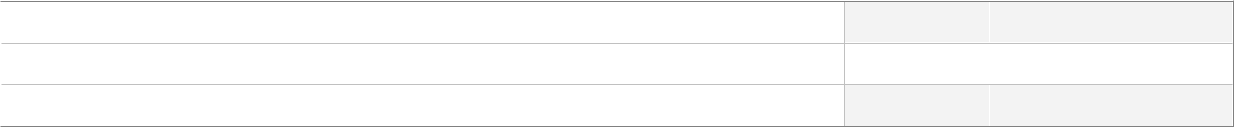
**Name**

@courseID

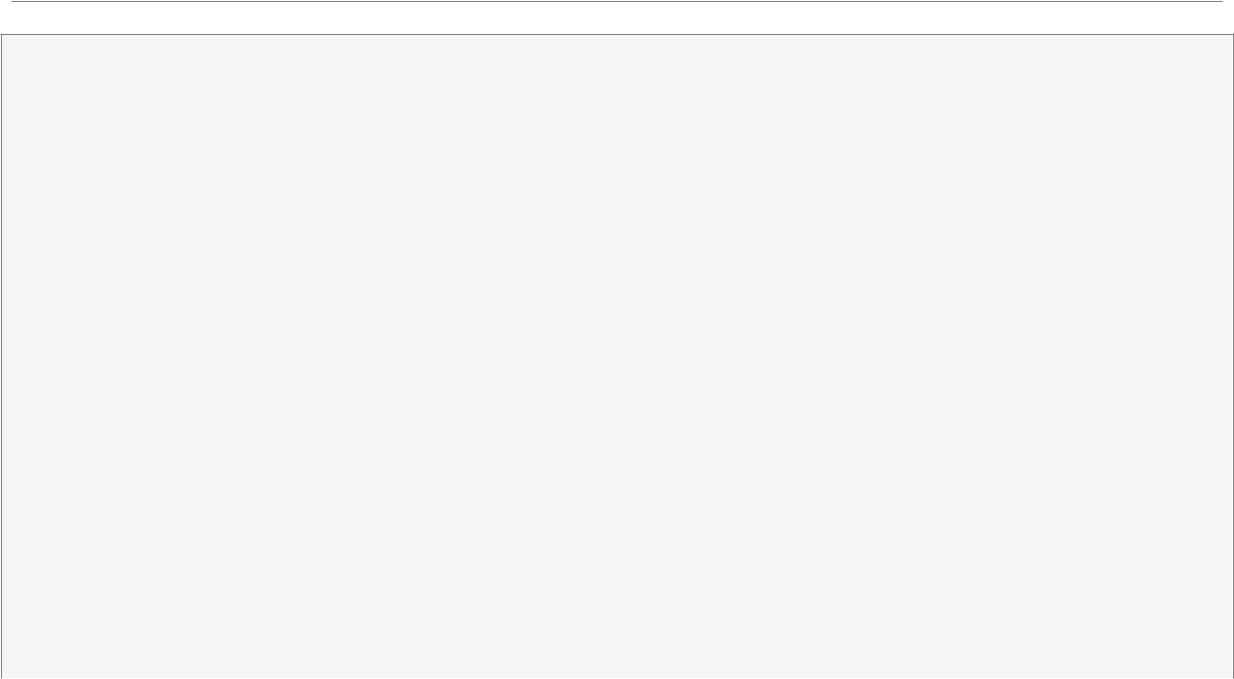


@studentID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[GetStudentAnswerAndModelAnswer] @courseID int, @studentID int

AS

select q.Content as Question,

CONCAT(sa.Student\_Answer,') ', c.Content) AS StudentAnswer, CONCAT(a.Value,') ', mc.Content) AS ModelAnswer

from Student\_Courses sc , Exams e, Student\_Answer\_In\_Exam sa, Questions q, Answers a,Choices c, Choices mc

|  |  |  |
| --- | --- | --- |
| where | sc.Course\_Id = @courseID and |  |
|  | e.Course\_Id = @courseID and |  |
|  | sa.Exam\_Id = e.Exam\_Id and |  |
|  | sc.Student\_Id = @studentID and |  |
|  | sa.Student\_Id = @studentID and |  |
|  | q.Question\_Id = a.Question\_Id and |  |
|  | q.Question\_Id = sa.Question\_Id and |  |
|  | sa.Student\_Answer = c.Choice\_Number AND |  |
|  | q.Question\_Id = c.Question\_Id and |  |
|  | a.Value = mc.Choice\_Number and |  |
| GO | q.Question\_Id = mc.Question\_Id |  |
|  |  |

**Uses**

[[dbo].[Answers]](#page9)

[[dbo].[Choices]](#page11)

[[dbo].[Exams]](#page20)

[[dbo].[Questions]](#page24)

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

[[dbo].[Student\_Courses]](#page28)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Get-StudentGradeInAllCourses



 **[dbo].[GetStudentGradeInAllCourses]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



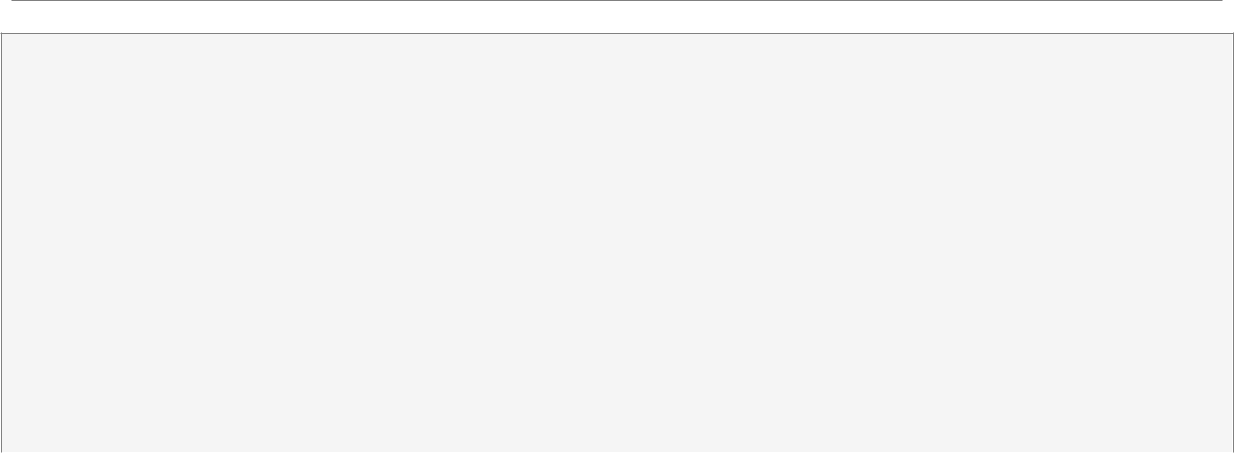
**Name**

@Student\_id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[GetStudentGradeInAllCourses] @Student\_id int as

if(@Student\_id not in (select Student\_Id from Student\_Courses))

begin

RAISERROR('Invalid Student ID', 16, 1);

return;

end

select sc.Student\_Id, c.Course\_Name, sc.StudentGrade from Student\_Courses sc, Courses c where sc.Course\_Id = c.Course\_Id and sc.Student\_Id = @Student\_id and sc.StudentGrade is not Null

GO

**Uses**

[[dbo].[Courses]](#page13)

[[dbo].[Student\_Courses]](#page28)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Get-StudentsInDepartment



 **[dbo].[GetStudentsInDepartment]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



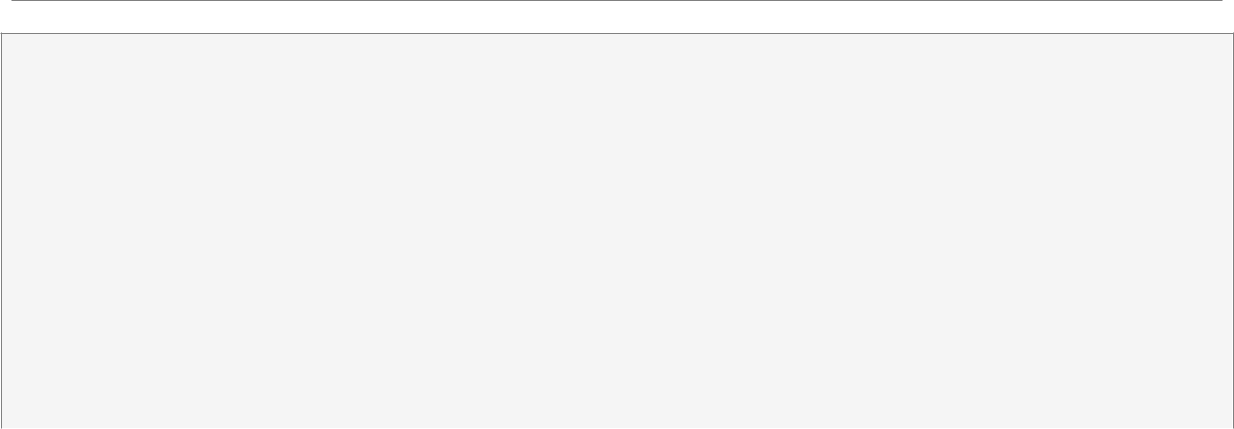
**Name**

@dept\_Id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[GetStudentsInDepartment] @dept\_Id int as

if(@dept\_Id not in (select Department\_ID from Departments))

begin

RAISERROR('Invalid Departemnt ID', 16, 1);

return;

end

select d.Department\_Name, CONCAT (s.Fname ,' ',s.LName) as [Student Name] , s.Email,s.Age from Students s , Departments d

where s.Dept\_Id =@dept\_Id and d.Department\_ID =s.Dept\_Id

GO

**Uses**

[[dbo].[Departments]](#page17)

[[dbo].[Students]](#page30)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Get-TopicsOfCourse



 **[dbo].[GetTopicsOfCourse]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



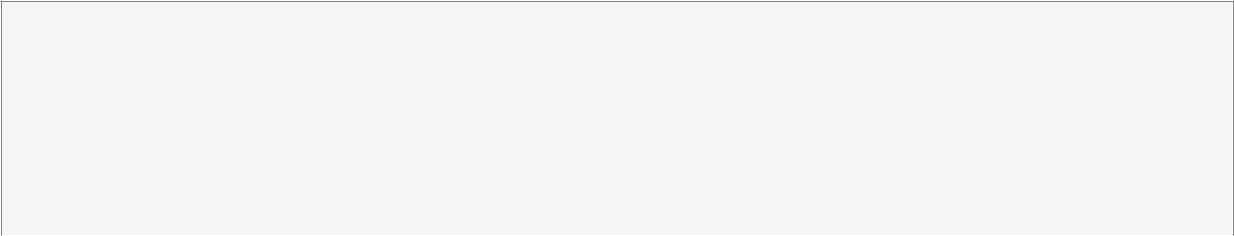
**Name**

@CrsID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[GetTopicsOfCourse] @CrsID int as

select t.Topic\_Name from Topic t , Courses c

where c.Course\_Id = t.Course\_Id and c.Course\_Id = @CrsID

GO

**Uses**

[[dbo].[Courses]](#page13)

[[dbo].[Topic]](#page32)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.insert\_-Course



 **[dbo].[insert\_Course]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



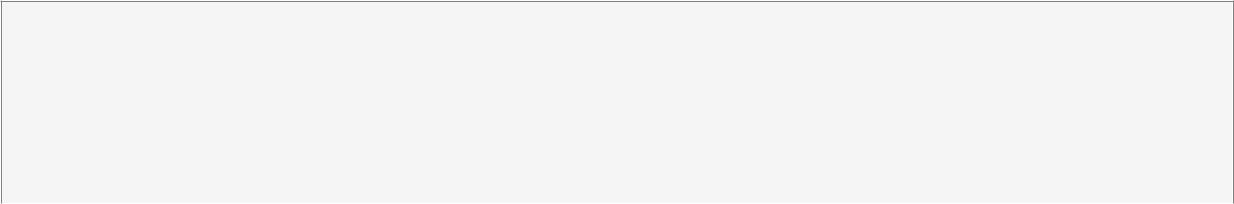
**Name**

@Course\_Name

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| nchar(10) | 20 |
|  |  |



**SQL Script**



create proc [dbo].[insert\_Course] @Course\_Name nchar(10)

as

insert into Courses (Course\_Name)

values(@Course\_Name)

GO

**Uses**

[[dbo].[Courses]](#page13)

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 **[dbo].[insert\_CourseInstructor]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

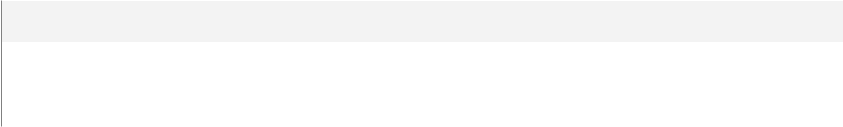


True



True

**Parameters**



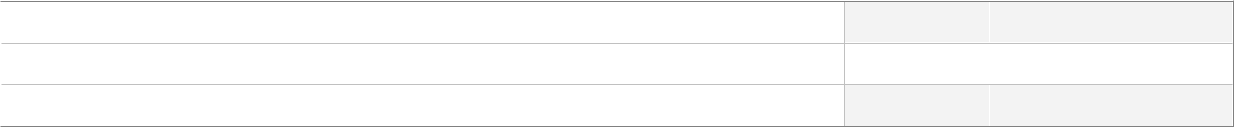
**Name**

@Course\_ID

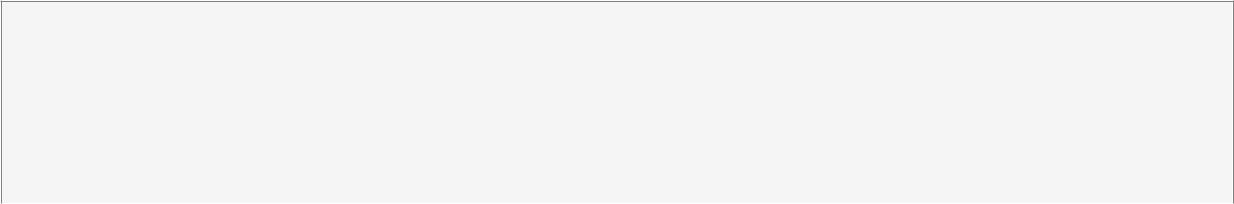


@Instructor\_ID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[insert\_CourseInstructor] @Course\_ID int,@Instructor\_ID int as

insert into Courses\_Instructor

values(@Course\_ID,@Instructor\_ID)

GO

**Uses**

[[dbo].[Courses\_Instructor]](#page15)

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 **[dbo].[insert\_Instructor]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

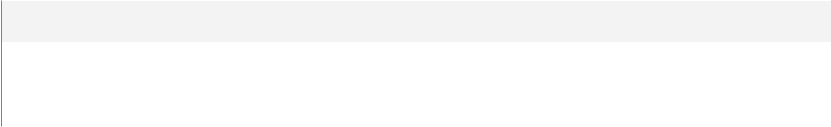


True



True

**Parameters**



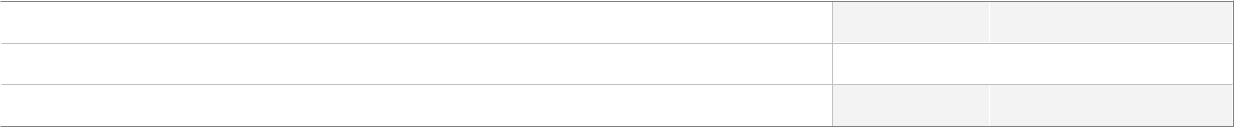
**Name**

@Instructor\_Name

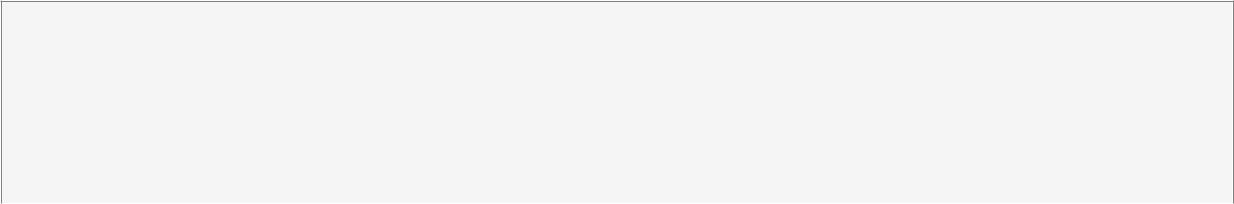


@Dept\_no

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| varchar(50) | 50 |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[insert\_Instructor] @Instructor\_Name varchar(50),@Dept\_no int as

insert into Instructors (Instructor\_Id,Dept\_Id)

values(@Instructor\_Name,@Dept\_no)

GO

**Uses**

[[dbo].[Instructors]](#page22)

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 **[dbo].[insert\_Topic]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

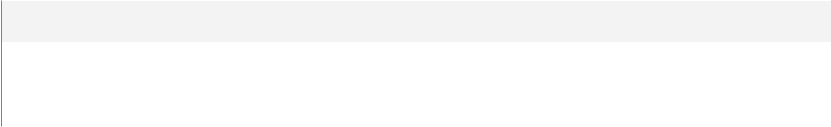


True



True

**Parameters**



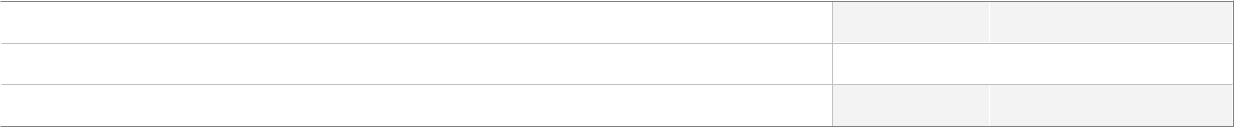
**Name**

@Course\_ID

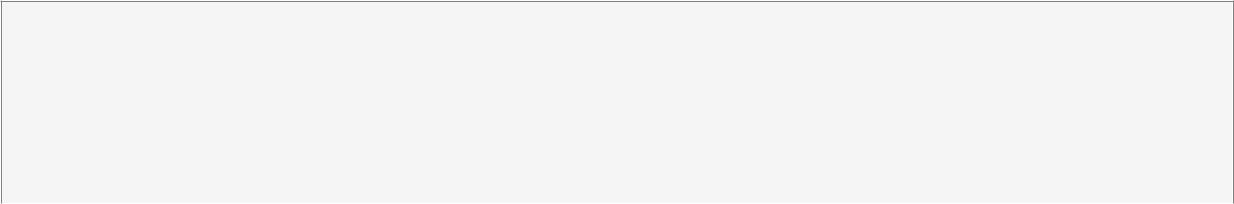


@Topic\_Name

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(50) | 50 |
|  |  |



**SQL Script**



create proc [dbo].[insert\_Topic] @Course\_ID int,@Topic\_Name varchar(50)

as

insert into Topic (Course\_Id,Topic\_Name)

values(@Course\_ID,@Topic\_Name)

GO

**Uses**

[[dbo].[Topic]](#page32)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Insert-AnswerForQuestion



 **[dbo].[InsertAnswerForQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

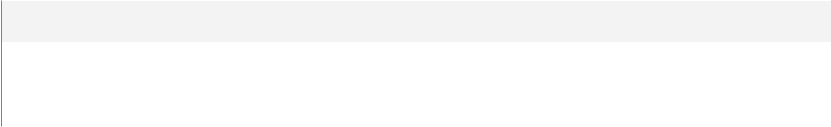


True



True

**Parameters**



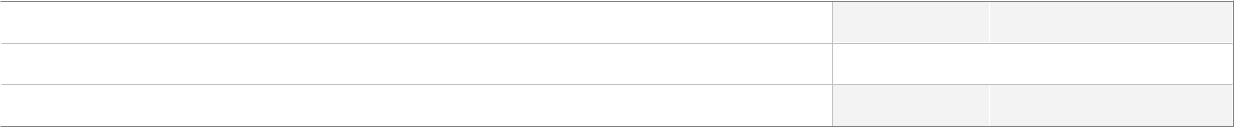
**Name**

@Ques\_id

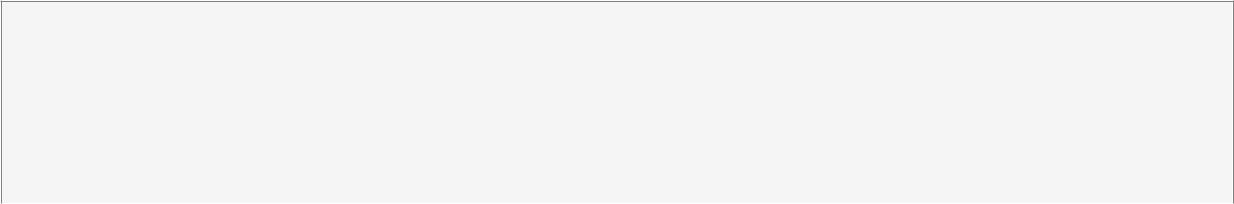


@correct\_Answer

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(50) | 50 |
|  |  |



**SQL Script**



CREATE proc [dbo].[InsertAnswerForQuestion] @Ques\_id int , @correct\_Answer varchar(50) as

insert into Answers(Question\_Id , Value)

values(@Ques\_id,@correct\_Answer)

GO

**Uses**

[[dbo].[Answers]](#page9)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Insert-ChoiceForQuestion



 **[dbo].[InsertChoiceForQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

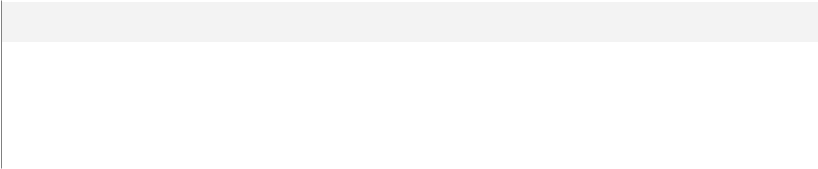


True



True

**Parameters**



**Name**

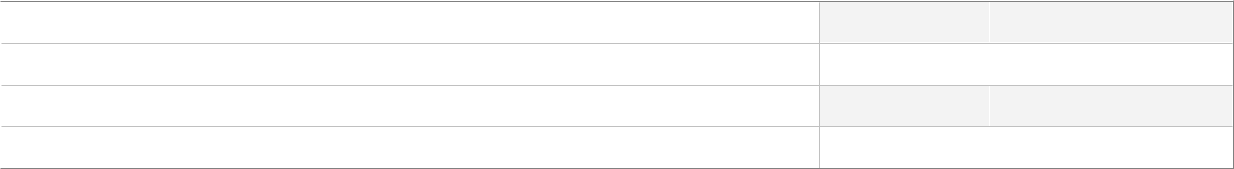
@Ques\_id



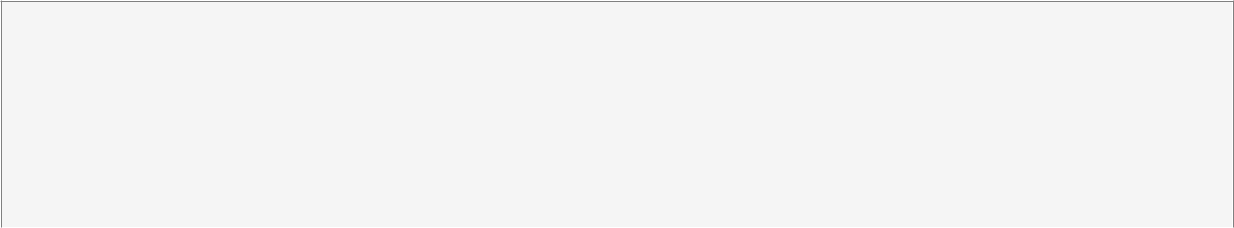
@choiceNumber

@content

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
| varchar(250) | 250 |
|  |  |



**SQL Script**



CREATE proc [dbo].[InsertChoiceForQuestion] @Ques\_id int , @choiceNumber int, @content varchar(250)

as

insert into Choices(Question\_Id , Choice\_Number, Content)

values(@Ques\_id,@choiceNumber,@content)

GO

**Uses**

[[dbo].[Choices]](#page11)

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 **[dbo].[InsertDepartment]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

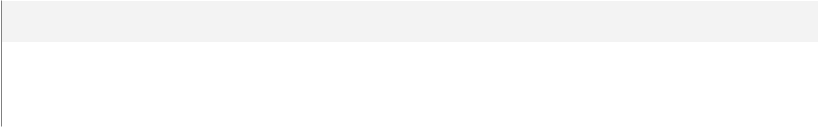


True



True

**Parameters**



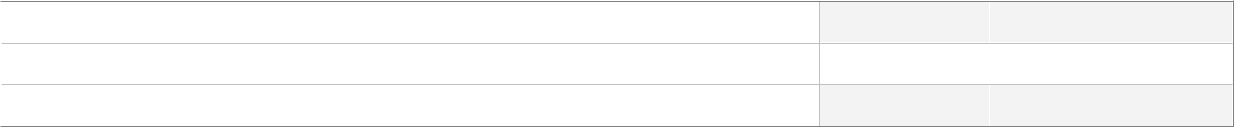
**Name**

@Department\_Name

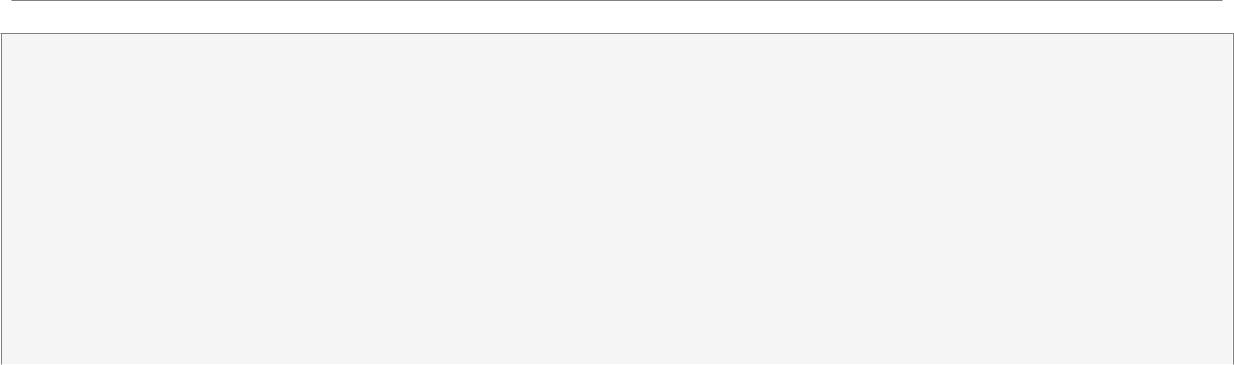


@Dept\_Description

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| varchar(50) | 50 |
| varchar(200) | 200 |
|  |  |



**SQL Script**



CREATE PROCEDURE [dbo].[InsertDepartment]

@Department\_Name VARCHAR(50),

@Dept\_Description VARCHAR(200)

AS

BEGIN

INSERT INTO Departments (Department\_Name, Dept\_Description)

VALUES (@Department\_Name, @Dept\_Description);

END;

GO

**Uses**

[[dbo].[Departments]](#page17)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Insert-Exam



 **[dbo].[InsertExam]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

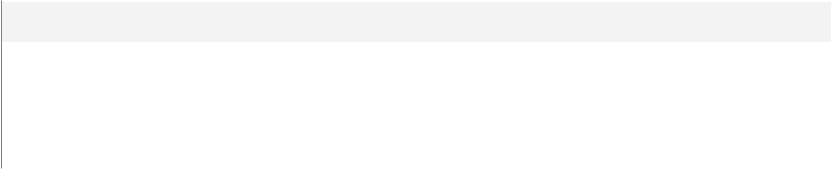


True



True

**Parameters**



**Name**

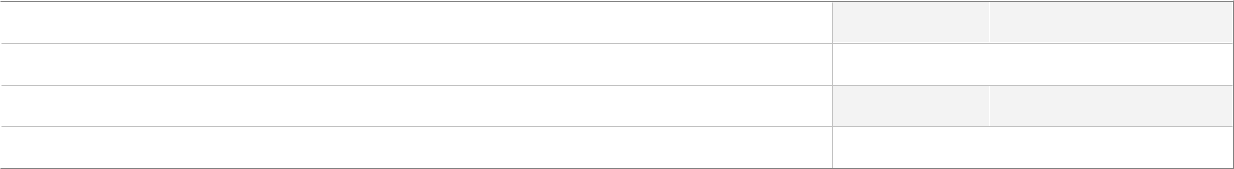
@ExamName



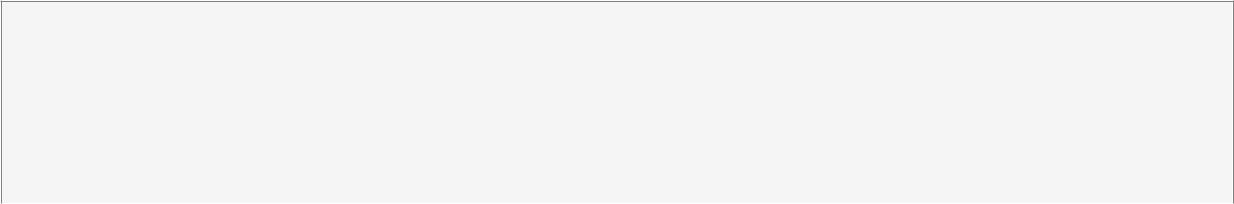
@duration

@Crs\_id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| varchar(50) | 50 |
| varchar(50) | 50 |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[InsertExam] @ExamName varchar(50) , @duration varchar(50) , @Crs\_id int as

insert into Exams(Exam\_Name , Exam\_Duration , Course\_Id)

values(@ExamName , @duration , @Crs\_id)

GO

**Uses**

[[dbo].[Exams]](#page20)

**Used By**

[[dbo].[Exam\_Generation]](#page56)

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 **[dbo].[InsertQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

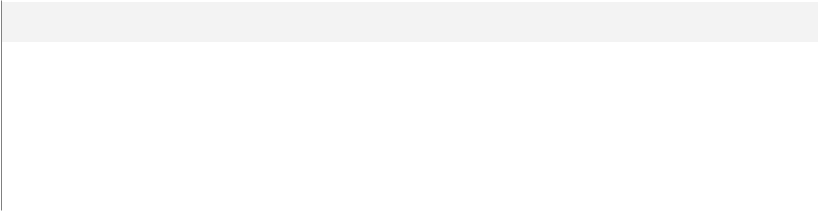


True



True

**Parameters**



**Name**

@grade



@content

@Qust\_type

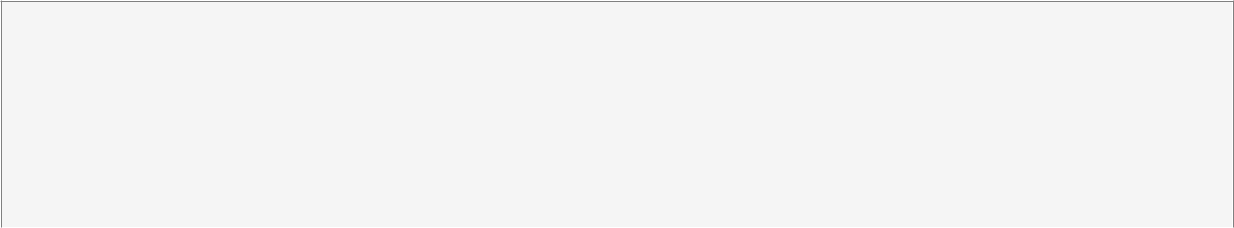


@crs\_id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(400) | 400 |
| varchar(100) | 100 |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[InsertQuestion] @grade int , @content varchar(400),@Qust\_type varchar(100),@crs\_id int

as

insert into Questions(Grade , Content , Question\_Type,Course\_Id)

values(@grade,@content,@Qust\_type,@crs\_id)

GO

**Uses**

[[dbo].[Questions]](#page24)

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 **[dbo].[InsertQuestionInExam]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

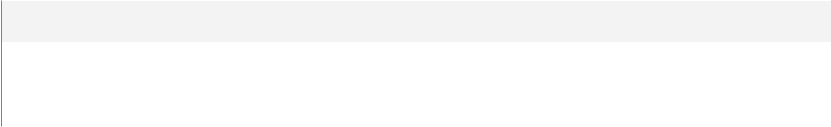


True



True

**Parameters**



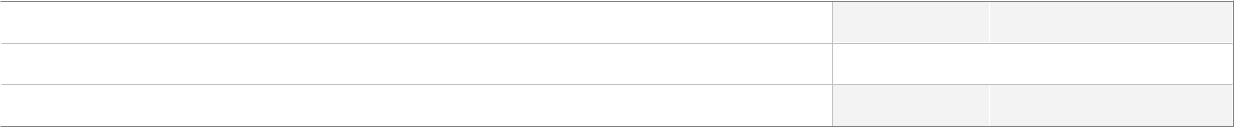
**Name**

@QuestID

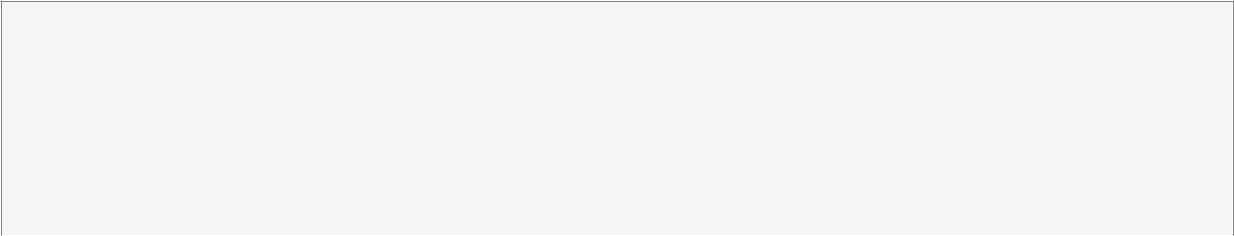


@ExamName

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(50) | 50 |
|  |  |



**SQL Script**



CREATE proc [dbo].[InsertQuestionInExam] @QuestID int,@ExamName varchar(50) as

insert into Exam\_Questions

select @QuestID, Exam\_Id as eID from Exams

where Exam\_Name = @ExamName

GO

**Uses**

[[dbo].[Exam\_Questions]](#page18)

[[dbo].[Exams]](#page20)

Author: Mahmoud Copyright 2024 - All Rights Reserved Page 75 of 116

Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Insert-Student



 **[dbo].[InsertStudent]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

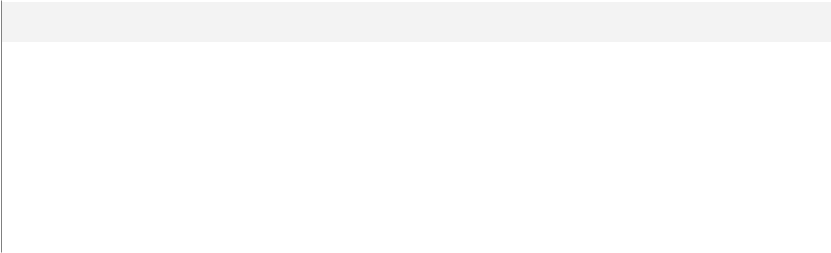


True



True

**Parameters**



**Name**

@FName



@LName

@Age



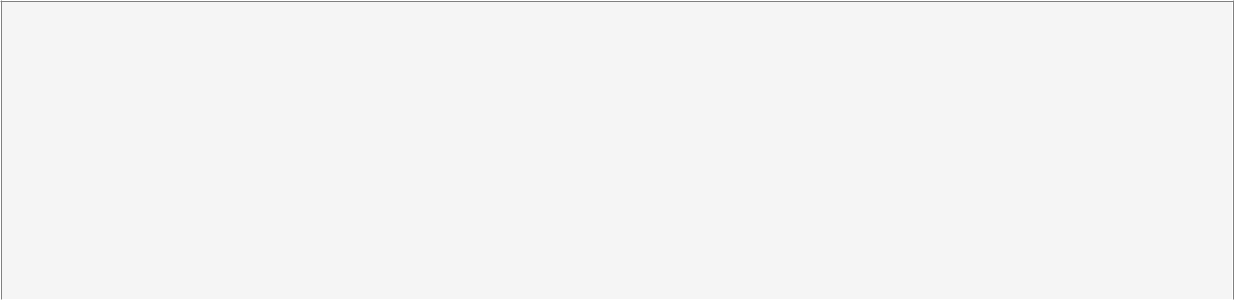
@Email

@Dept\_Id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| varchar(10) | 10 |
| varchar(10) | 10 |
| int | 4 |
| varchar(50) | 50 |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[InsertStudent] @FName VARCHAR(10),@LName VARCHAR(10),@Age INT, @Email VARCHAR(50),@Dept\_Id INT

AS

BEGIN

INSERT INTO Students (FName, LName, Age, Email, Dept\_Id)

VALUES (@FName, @LName, @Age, @Email, @Dept\_Id);

END;

GO

**Uses**

[[dbo].[Students]](#page30)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Insert-StudentAnswerOfQuestionInExam



 **[dbo].[InsertStudentAnswerOfQuestionInExam]**

**Properties**



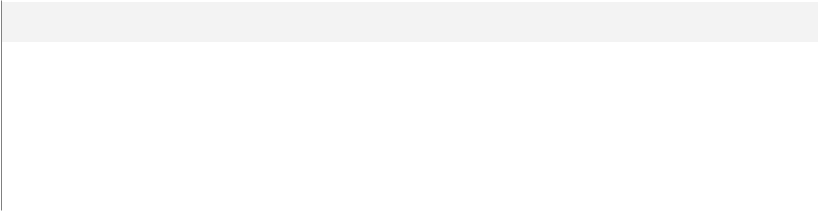
**Property**

ANSI Nulls On



Quoted Identifier On

**Parameters**



**Name**

@stud\_Id



@Quest\_Id

@Exam\_Id



@stud\_Answer

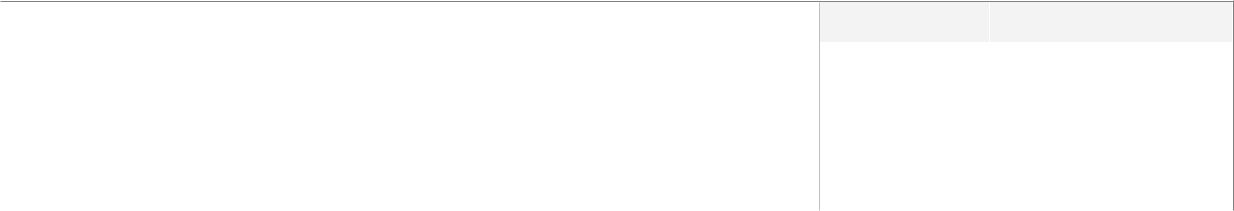
**Value**



True



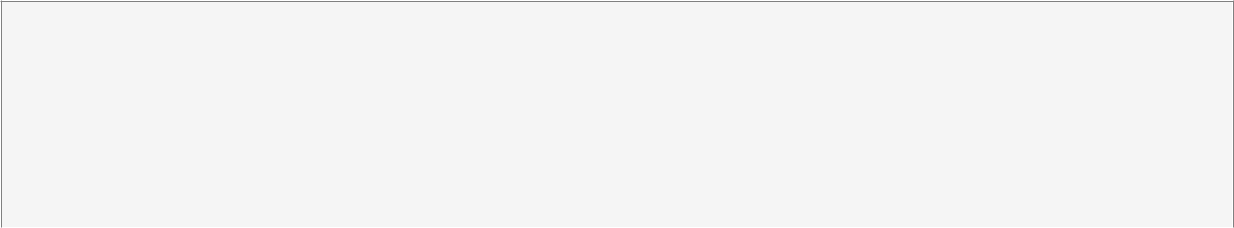
True



|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
| int | 4 |
| varchar(200) | 200 |
|  |  |



**SQL Script**



create proc [dbo].[InsertStudentAnswerOfQuestionInExam] @stud\_Id int , @Quest\_Id int,@Exam\_Id int , @stud\_Answer varchar(200)

as

insert into Student\_Answer\_In\_Exam

values(@stud\_Id,@Exam\_Id,@Quest\_Id,@stud\_Answer)

GO

**Uses**

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

**Used By**

[[dbo].[Exam\_Answers]](#page51)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Insert-StudentCourse



 **[dbo].[InsertStudentCourse]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

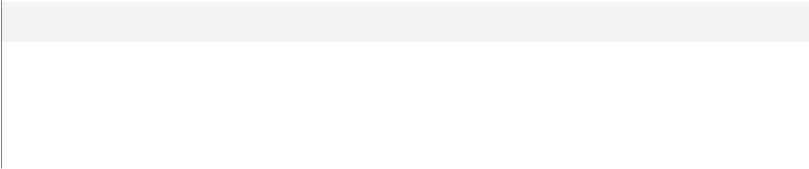


True



True

**Parameters**



**Name**

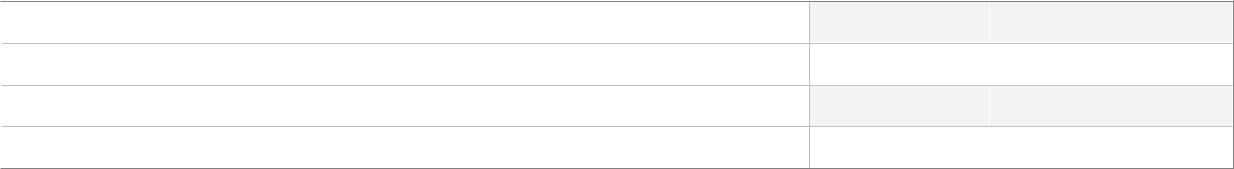
@StudentID



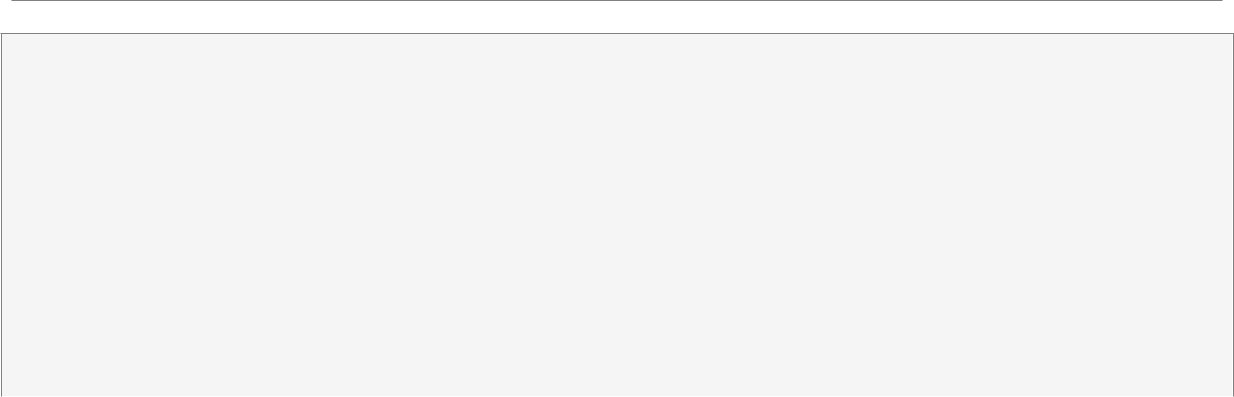
@CourseID

@StudentGrade

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
| decimal(18,2) | 9 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[InsertStudentCourse]

@StudentID INT,

@CourseID INT,

@StudentGrade decimal (18,2)

AS

BEGIN

INSERT INTO Student\_Courses (Student\_Id, Course\_Id,StudentGrade)

VALUES (@StudentID, @CourseID,@StudentGrade);

END;

GO

**Uses**

[[dbo].[Student\_Courses]](#page28)

**Used By**

[[dbo].[Exam\_Correct]](#page53)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.questionsAndChoicesFromExamID



 **[dbo].[questionsAndChoicesFromExamID]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



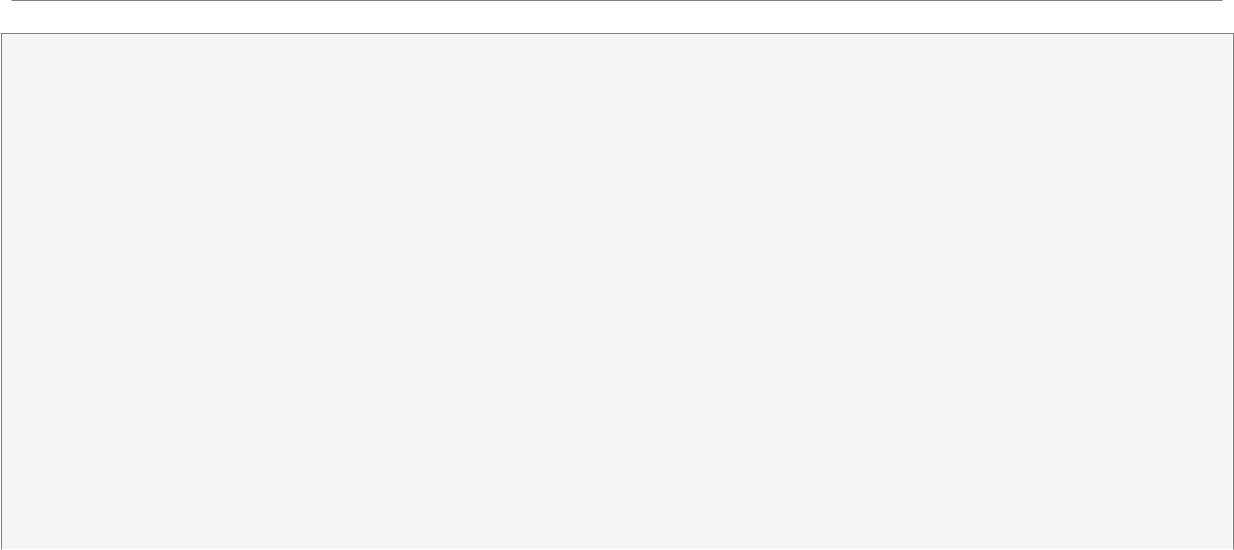
**Name**

@ExamID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[questionsAndChoicesFromExamID] @ExamID int AS

if(@ExamID not in (select Exam\_Id from Exams))

begin

RAISERROR('Invalid Exam ID', 16, 1);

return;

end

Select Questions.Content as [QuestionContent], Choices.Choice\_Number, Choices.Content,Questions.Question\_Type

From Exams e, Exam\_Questions, Questions, Choices

Where e.Exam\_Id = Exam\_Questions.Exam\_ID AND

Exam\_Questions.Question\_Id = Questions.Question\_Id AND

Questions.Question\_Id = Choices.Question\_Id and

e.Exam\_Id = @ExamID

GO

**Uses**

[[dbo].[Choices]](#page11)

[[dbo].[Exam\_Questions]](#page18)

[[dbo].[Exams]](#page20)

[[dbo].[Questions]](#page24)

Author: Mahmoud Copyright 2024 - All Rights Reserved Page 79 of 116

Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Report6\_-ExamQuestions\_StudnetAnswers



 **[dbo].[Report6\_ExamQuestions\_StudnetAnswers]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

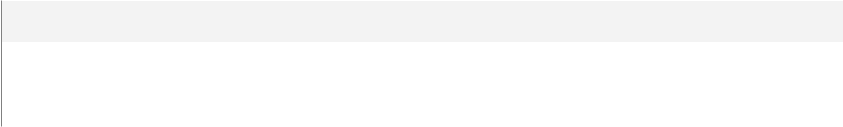


True



True

**Parameters**



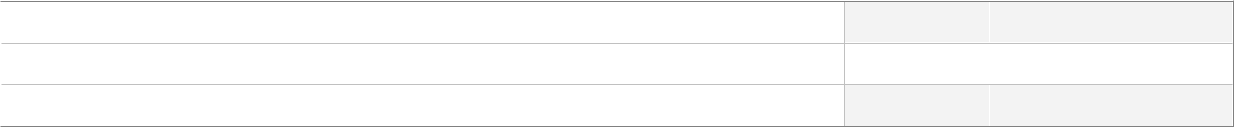
**Name**

@examID

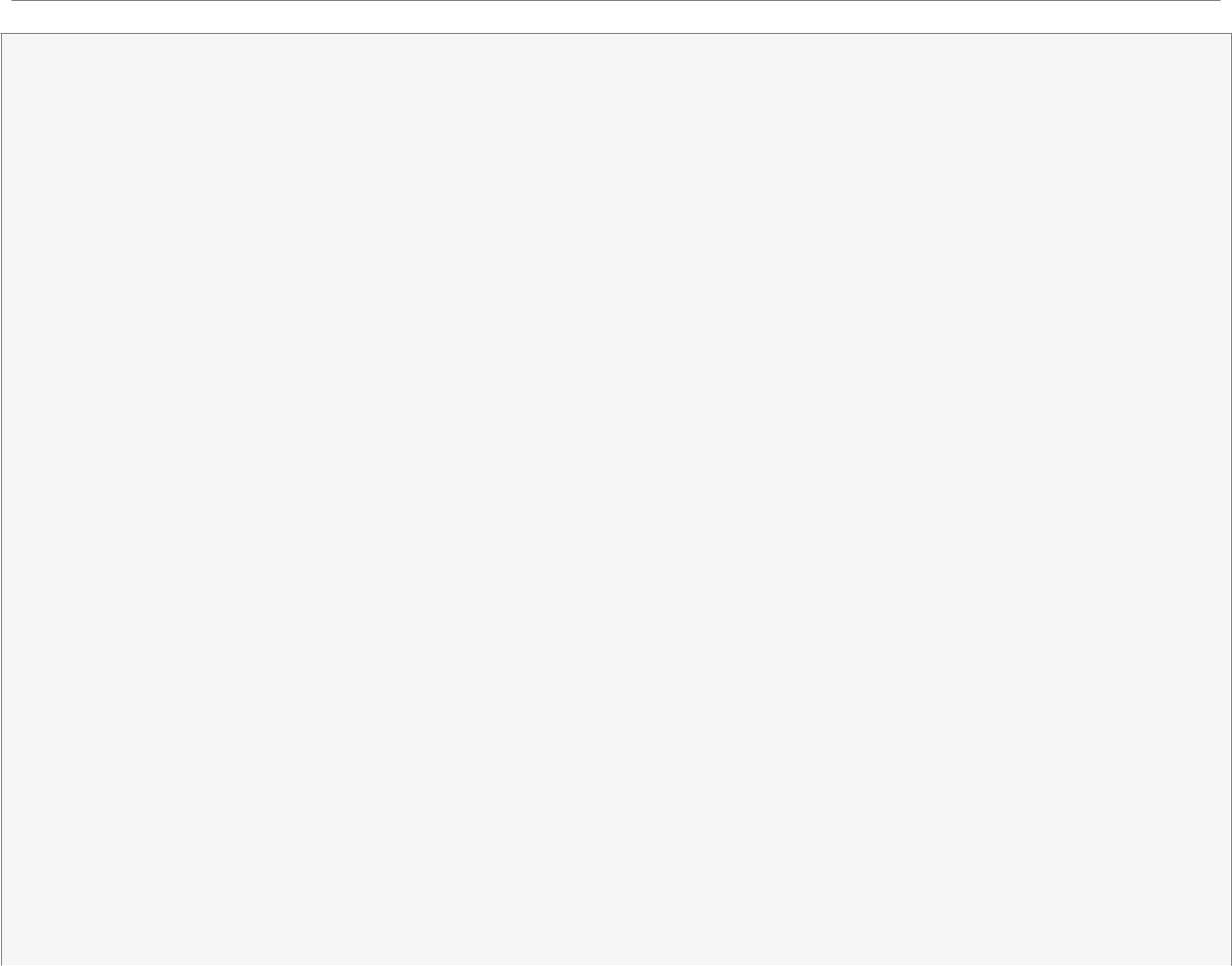


@studentID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[Report6\_ExamQuestions\_StudnetAnswers]

(

@examID int,

@studentID int

)

AS

BEGIN

if not exists(select Exams.Exam\_Id From Exams where Exams.Exam\_Id = @examID) begin

RAISERROR('Invalid Exam ID', 16, 1);

return;

end

if not exists(select Students.Student\_Id From Students where Students.Student\_Id = @studentID)

begin

RAISERROR('Invalid Student ID', 16, 1);

return;

end

SELECT q.Content as Question,s.Student\_Answer,c.Content FROM Questions q

JOIN Student\_Answer\_In\_Exam s ON s.Question\_ID = q.Question\_Id

join Choices c on s.Student\_Answer = c.Choice\_Number AND q.Question\_Id = c.Question\_Id WHERE s.Exam\_Id = @examID AND s.Student\_Id = @studentID;

END;

GO

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Report6\_-ExamQuestions\_StudnetAnswers

**Uses**

[[dbo].[Choices]](#page11)

[[dbo].[Exams]](#page20)

[[dbo].[Questions]](#page24)

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

[[dbo].[Students]](#page30)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.select\_-Course



 **[dbo].[select\_Course]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



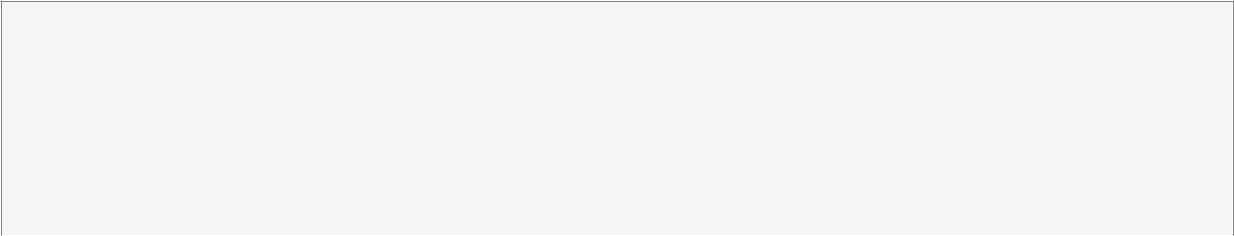
**Name**

@courseID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[select\_Course] @courseID int

as

select Course\_Id, Course\_Name

from Courses

where Course\_Id = @courseID

GO

**Uses**

[[dbo].[Courses]](#page13)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.select\_-CourseInstructor



 **[dbo].[select\_CourseInstructor]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



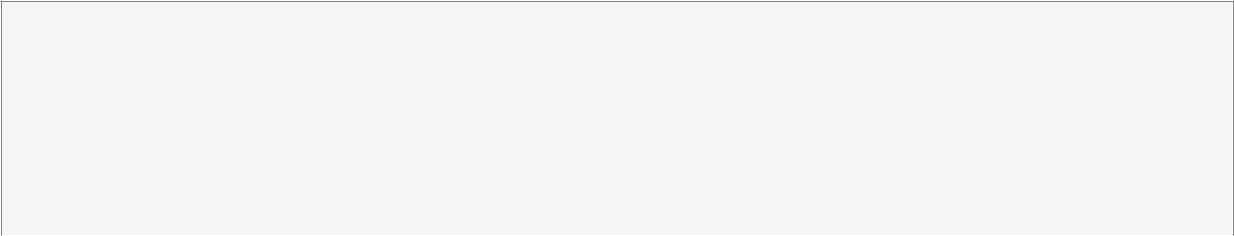
**Name**

@CourseID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[select\_CourseInstructor] @CourseID int as

select Course\_Id, Ins\_Id

from Courses\_Instructor

where Course\_Id = @CourseID

GO

**Uses**

[[dbo].[Courses\_Instructor]](#page15)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.select\_-CourseInstructor2



 **[dbo].[select\_CourseInstructor2]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



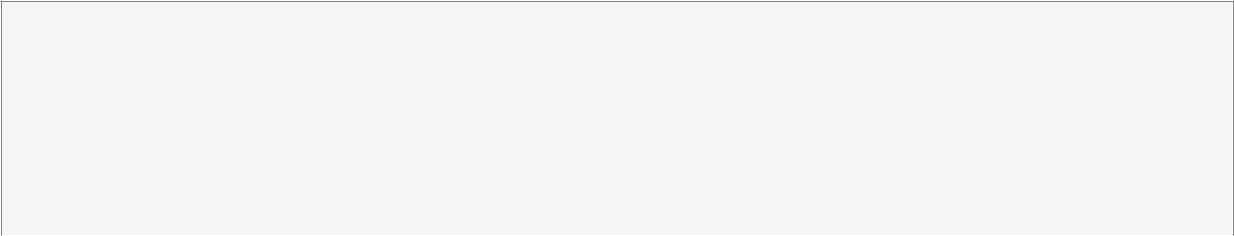
**Name**

@InstructorID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[select\_CourseInstructor2] @InstructorID int as

select Course\_Id, Ins\_Id

from Courses\_Instructor

where Ins\_Id = @InstructorID

GO

**Uses**

[[dbo].[Courses\_Instructor]](#page15)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.select\_-Instructor



 **[dbo].[select\_Instructor]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



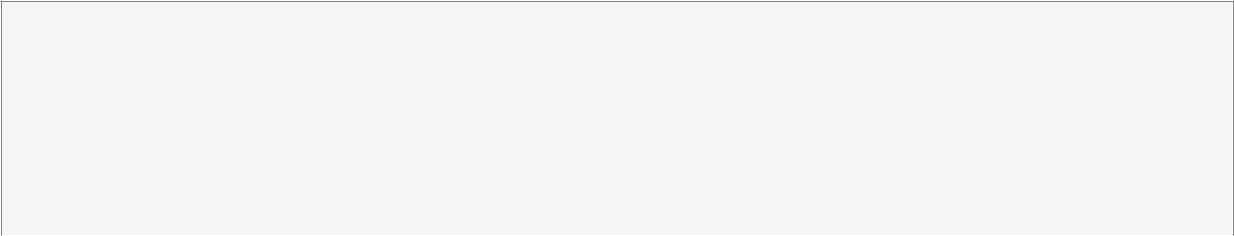
**Name**

@InstructorID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[select\_Instructor] @InstructorID int as

select Instructor\_Id, Instructor\_Name, Dept\_Id

from Instructors

where Instructor\_Id = @InstructorID

GO

**Uses**

[[dbo].[Instructors]](#page22)

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 **[dbo].[select\_Topic]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



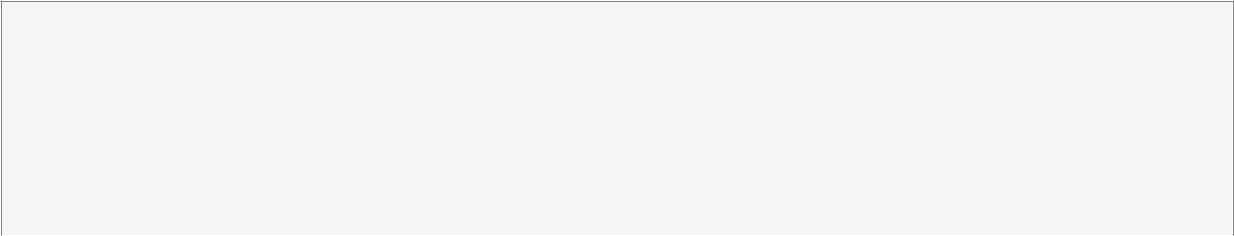
**Name**

@topicID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[select\_Topic] @topicID int

as

select Topic\_id,Course\_Id, Topic\_Name

from Topic

where Topic\_Id = @topicID

GO

**Uses**

[[dbo].[Topic]](#page32)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Select-AnswerForQuestion



 **[dbo].[SelectAnswerForQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



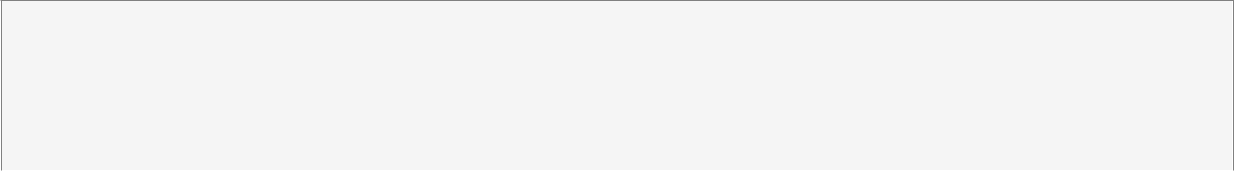
**Name**

@id\_Question

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[SelectAnswerForQuestion] @id\_Question int as

select Question\_Id , Value as [Correct Answer] from Answers

GO

**Uses**

[[dbo].[Answers]](#page9)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Select-Choices



 **[dbo].[SelectChoices]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



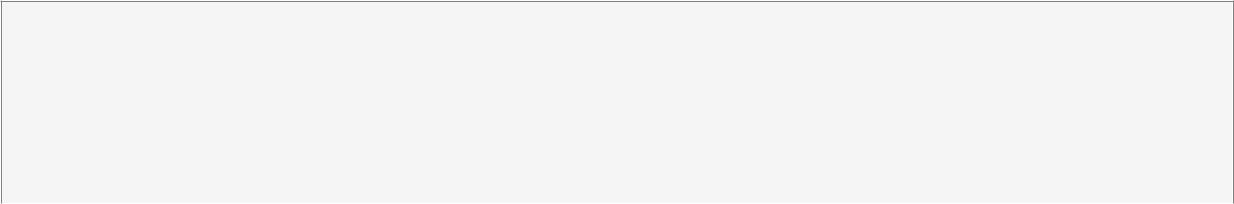
**Name**

@id\_Question

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[SelectChoices] @id\_Question int as

select c.Question\_Id , c.Content from Choices c inner join Questions q on c.Question\_Id = q.Question\_Id and c.Question\_Id = @id\_Question GO

**Uses**

[[dbo].[Choices]](#page11)

[[dbo].[Questions]](#page24)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Select-Department



 **[dbo].[SelectDepartment]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



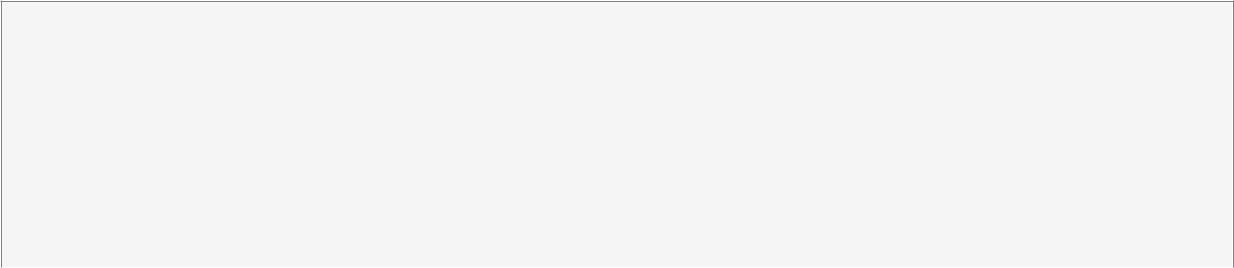
**Name**

@DepartmentID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[SelectDepartment]

@DepartmentID INT

AS

BEGIN

SELECT \* FROM Departments WHERE Department\_ID = @DepartmentID;

END;

GO

**Uses**

[[dbo].[Departments]](#page17)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Select-Exam



 **[dbo].[SelectExam]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



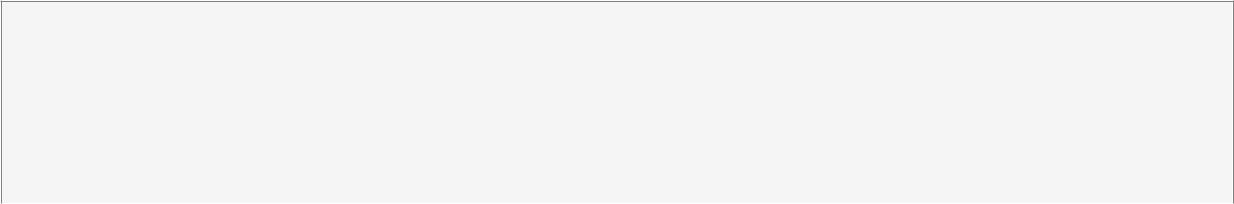
**Name**

@id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[SelectExam] @id int

as

select \* from Exams

where Exam\_Id = @id

GO

**Uses**

[[dbo].[Exams]](#page20)

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 **[dbo].[SelectExamQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



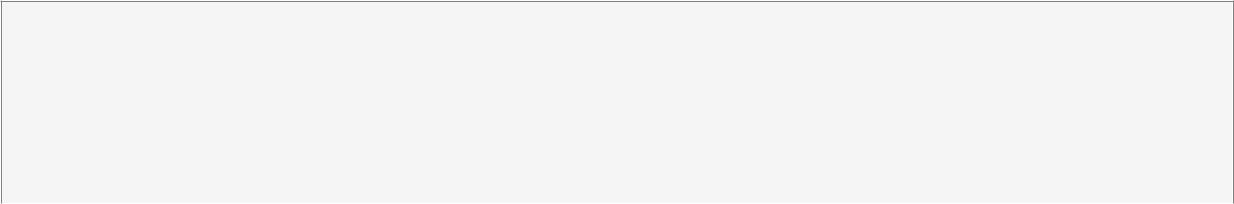
**Name**

@ExamId

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[SelectExamQuestion] @ExamId int as

select q.\* from Exams e , Questions q , Exam\_Questions eq

where eq.Exam\_ID = e.Exam\_Id and eq.Question\_Id = q.Question\_Id and eq.Exam\_ID = @ExamId

GO

**Uses**

[[dbo].[Exam\_Questions]](#page18)

[[dbo].[Exams]](#page20)

[[dbo].[Questions]](#page24)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Select-Question



 **[dbo].[SelectQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



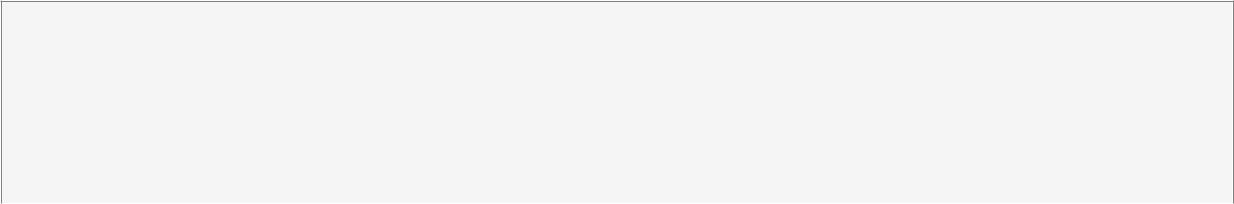
**Name**

@id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[SelectQuestion] @id int

as

select \* from Questions

where Question\_Id = @id

GO

**Uses**

[[dbo].[Questions]](#page24)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Select-Student



 **[dbo].[SelectStudent]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



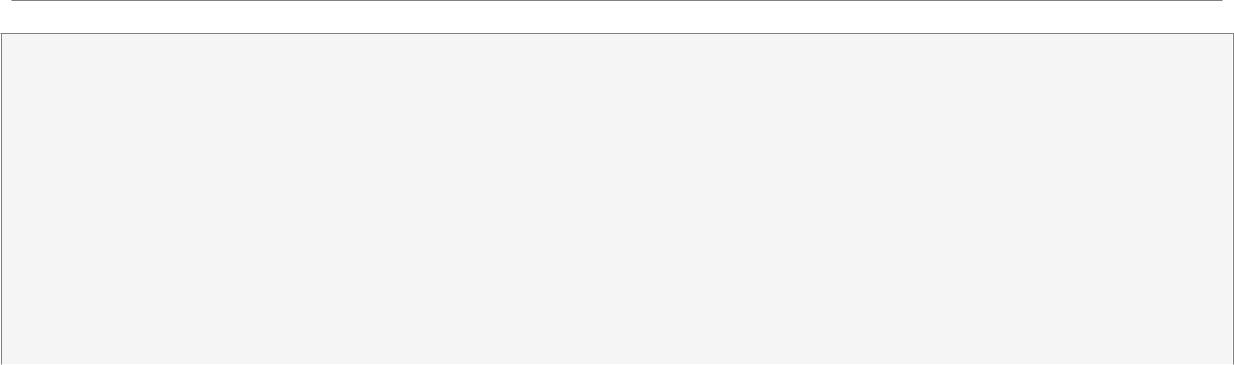
**Name**

@Student\_ID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
|  |  |



**SQL Script**



-- 1- Select --

create proc [dbo].[SelectStudent] @Student\_ID int as

select \*

from Students

where Student\_Id = @Student\_ID

--Calling

execute select\_Student 1

GO

**Uses**

[[dbo].[Students]](#page30)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Select-StudentAnswerOfQuestionInExam



 **[dbo].[SelectStudentAnswerOfQuestionInExam]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

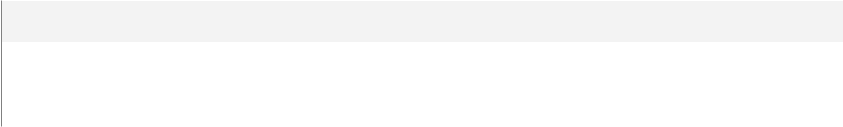


True



True

**Parameters**



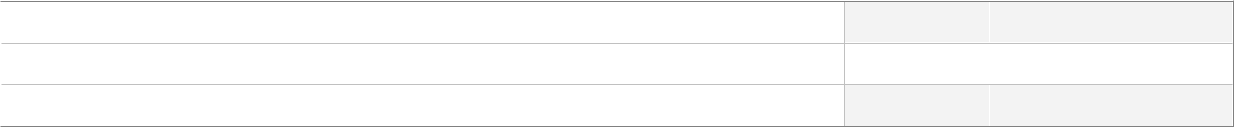
**Name**

@stud\_Id

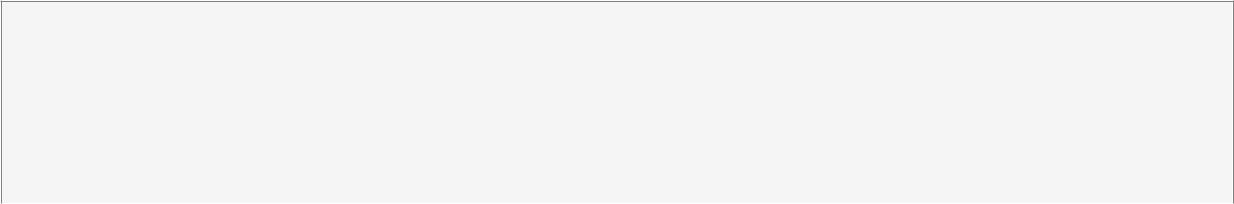


@Quest\_Id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[SelectStudentAnswerOfQuestionInExam] @stud\_Id int , @Quest\_Id int as

select \* from Student\_Answer\_In\_Exam

where Student\_Id = @stud\_Id and Question\_Id = @Quest\_Id

GO

**Uses**

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Select-StudentCourse



 **[dbo].[SelectStudentCourse]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

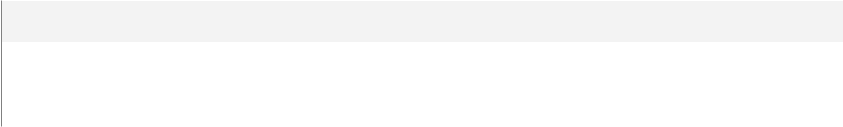


True



True

**Parameters**



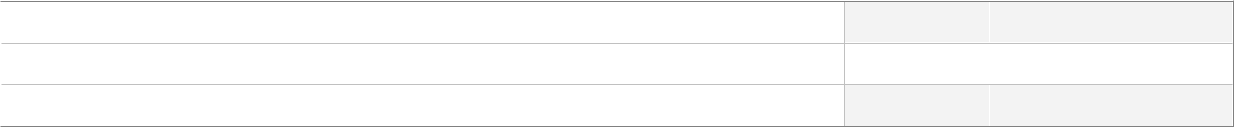
**Name**

@StudentID

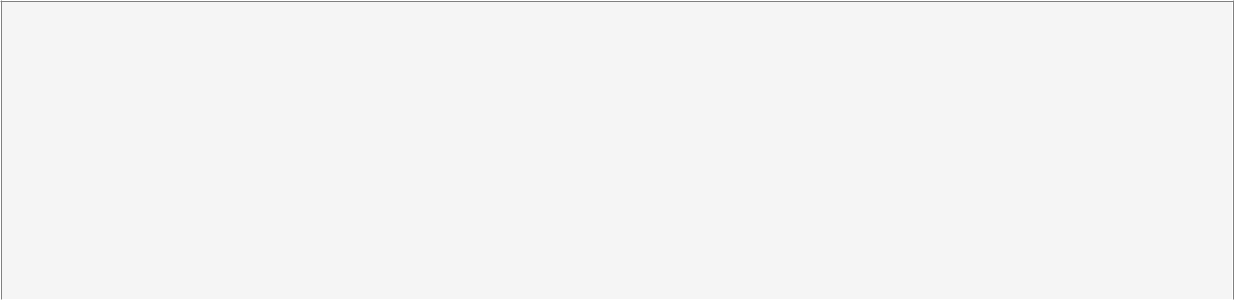


@CourseID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[SelectStudentCourse]

@StudentID INT,

@CourseID INT

AS

BEGIN

SELECT \* FROM Student\_Courses WHERE Student\_Id = @StudentID AND Course\_Id = @CourseID;

END;

GO

**Uses**

[[dbo].[Student\_Courses]](#page28)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.update\_-Course



 **[dbo].[update\_Course]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

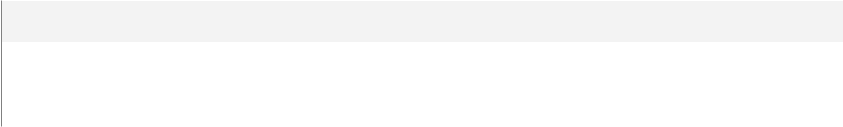


True



True

**Parameters**



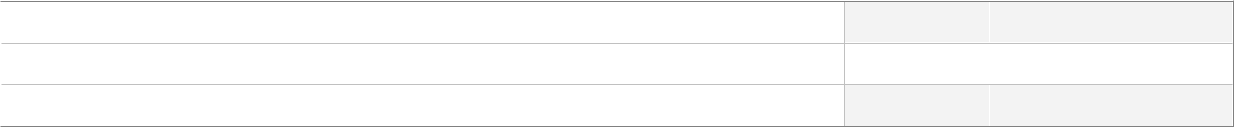
**Name**

@Course\_ID

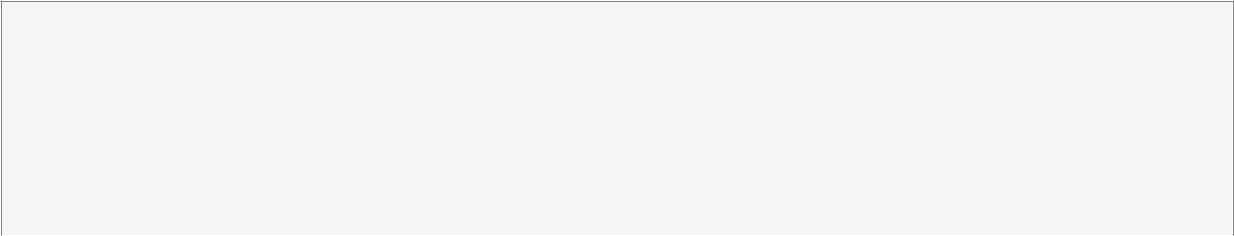


@Course\_Name

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| nchar(10) | 20 |
|  |  |



**SQL Script**



create proc [dbo].[update\_Course] @Course\_ID int,@Course\_Name nchar(10) = NULL as

update Courses

set Course\_Name = ISNULL(@Course\_Name,Course\_Name)

where Course\_Id = @Course\_ID

GO

**Uses**

[[dbo].[Courses]](#page13)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.update\_-CourseInstructor



 **[dbo].[update\_CourseInstructor]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

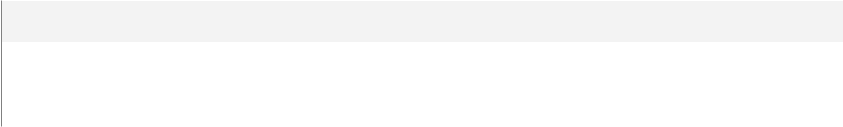


True



True

**Parameters**



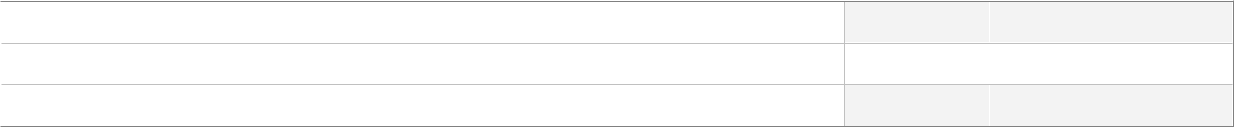
**Name**

@Course\_ID

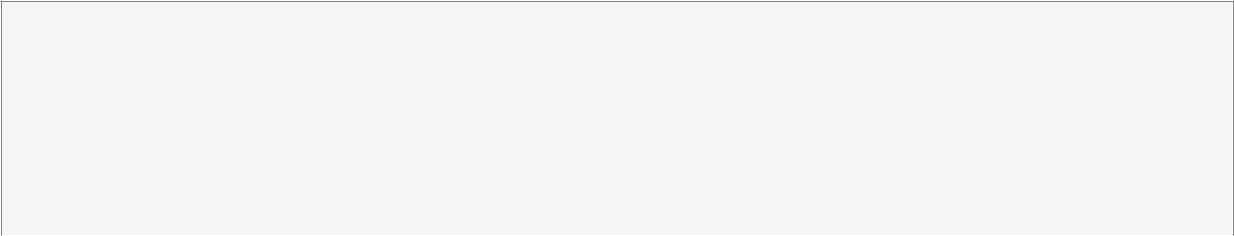


@InstructorID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[update\_CourseInstructor] @Course\_ID int,@InstructorID int as

update Courses\_Instructor

set Course\_Id = @Course\_ID

where Ins\_Id = @InstructorID

GO

**Uses**

[[dbo].[Courses\_Instructor]](#page15)

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 **[dbo].[update\_CourseInstructor2]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

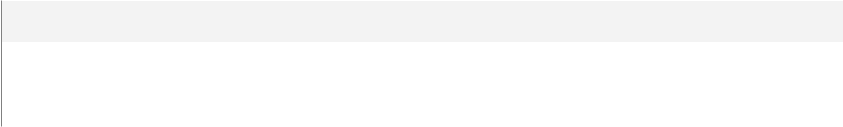


True



True

**Parameters**



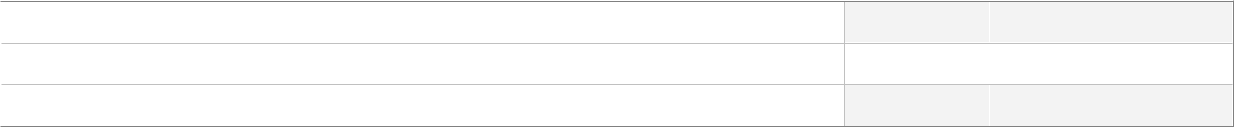
**Name**

@InstructorID

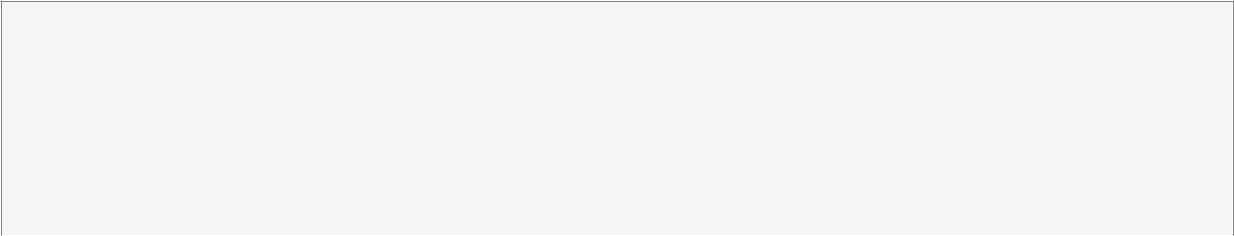


@Course\_ID

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[update\_CourseInstructor2] @InstructorID int,@Course\_ID int as

update Courses\_Instructor

set Ins\_Id = @InstructorID

where Course\_Id = @Course\_ID

GO

**Uses**

[[dbo].[Courses\_Instructor]](#page15)

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 **[dbo].[update\_Instructor]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

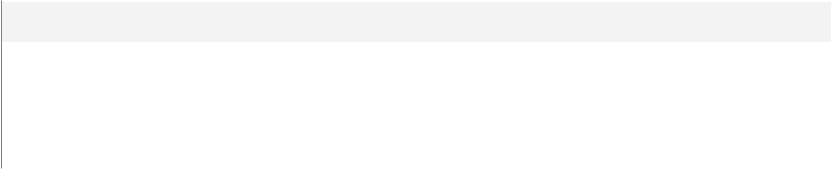


True



True

**Parameters**



**Name**

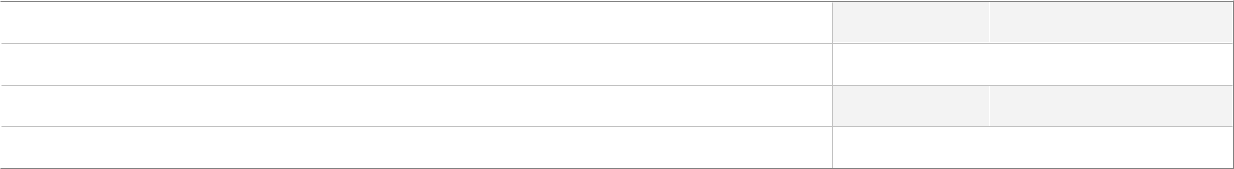
@InstructorID



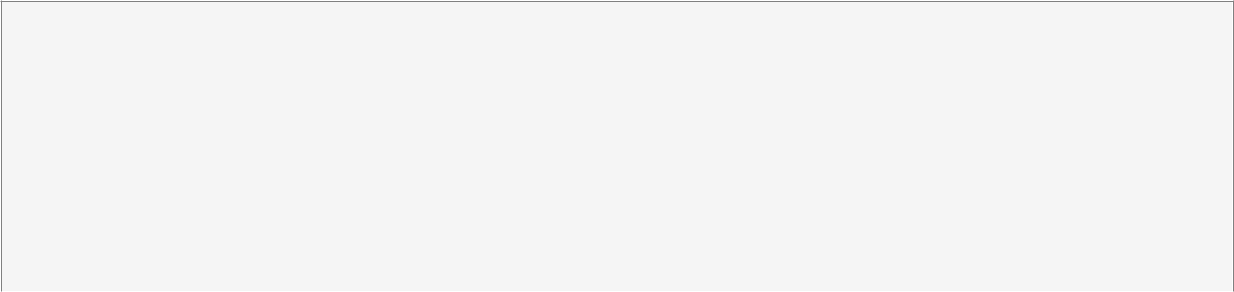
@Instructor\_Name

@Dept\_no

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(50) | 50 |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[update\_Instructor] @InstructorID int,@Instructor\_Name varchar(50) = NULL,@Dept\_no int = NULL

as

update Instructors

set Instructor\_Name = ISNULL(@Instructor\_Name, Instructor\_Name), Dept\_Id = ISNULL(@Dept\_no, Dept\_Id)

where Instructor\_Id = @InstructorID

GO

**Uses**

[[dbo].[Instructors]](#page22)

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 **[dbo].[update\_Topic]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

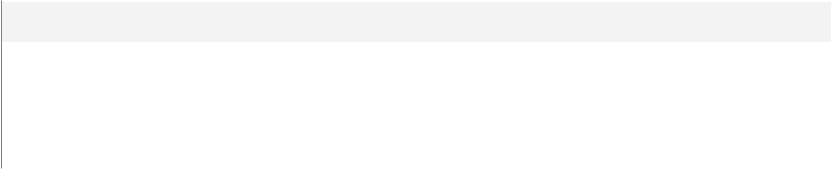


True



True

**Parameters**



**Name**

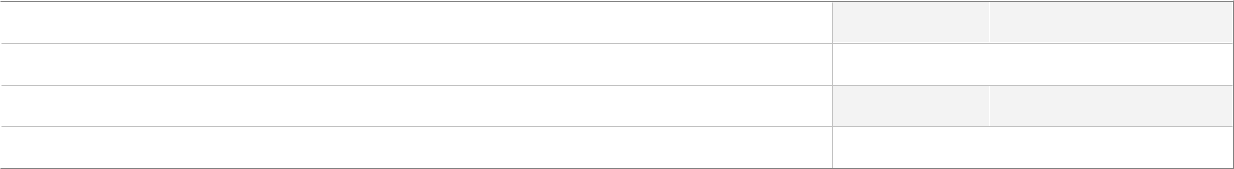
@TopicID



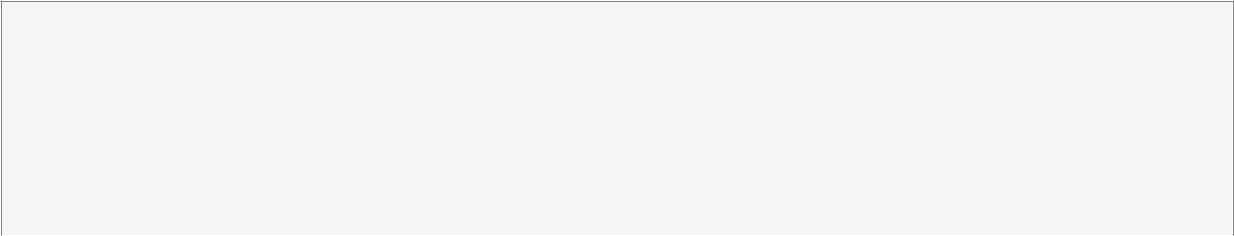
@Course\_ID

@Topic\_Name

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
| varchar(50) | 50 |
|  |  |



**SQL Script**



create proc [dbo].[update\_Topic] @TopicID int,@Course\_ID int,@Topic\_Name varchar(50) as

update Topic

set Topic\_Name = @Topic\_Name ,Course\_Id = @Course\_ID where Topic\_Id = @TopicID

GO

**Uses**

[[dbo].[Topic]](#page32)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Update-AnswerForQuestion



 **[dbo].[UpdateAnswerForQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

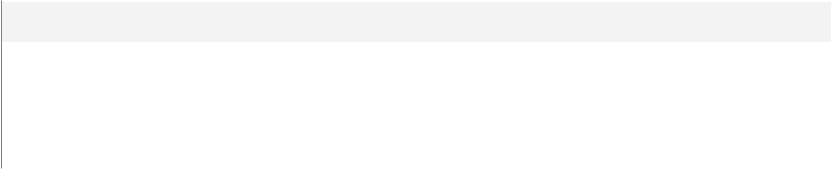


True



True

**Parameters**



**Name**

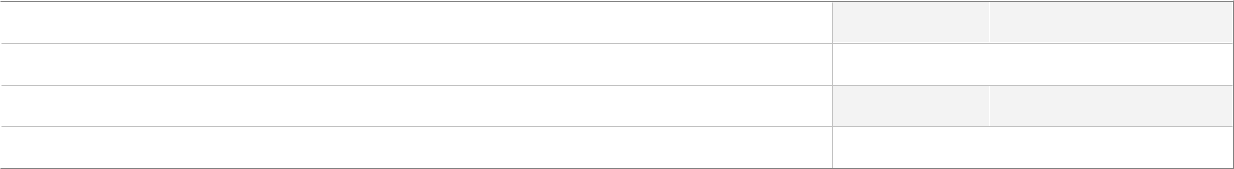
@Question\_id



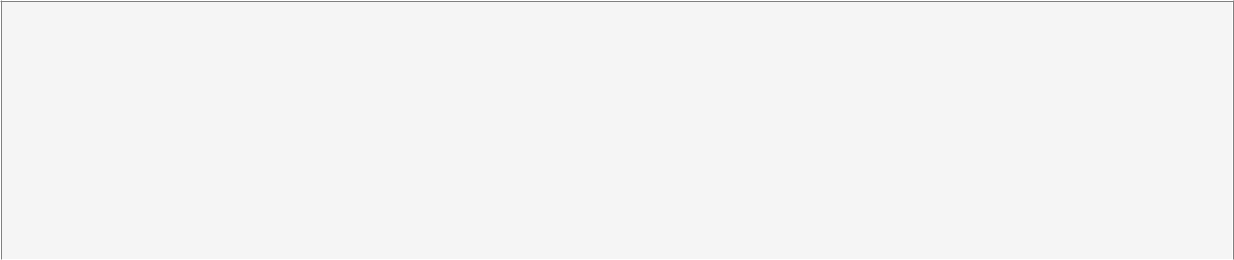
@old\_answer

@correct\_answer

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(50) | 50 |
| varchar(50) | 50 |
|  |  |



**SQL Script**



CREATE proc [dbo].[UpdateAnswerForQuestion] @Question\_id int ,@old\_answer varchar(50)

,@correct\_answer varchar(50)

as

update Answers

set Value = @correct\_answer

where Question\_Id = @Question\_id and Value = @old\_answer

GO

**Uses**

[[dbo].[Answers]](#page9)

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 **[dbo].[UpdateChoiceForQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

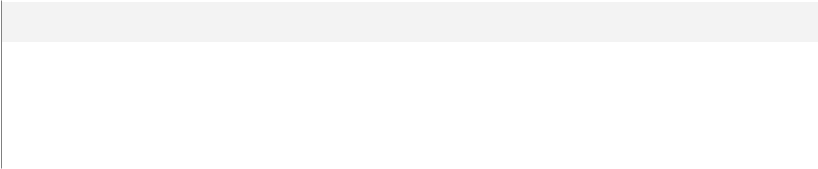


True



True

**Parameters**



**Name**

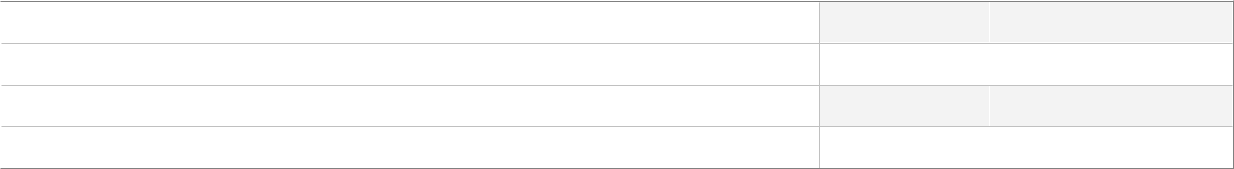
@Question\_id



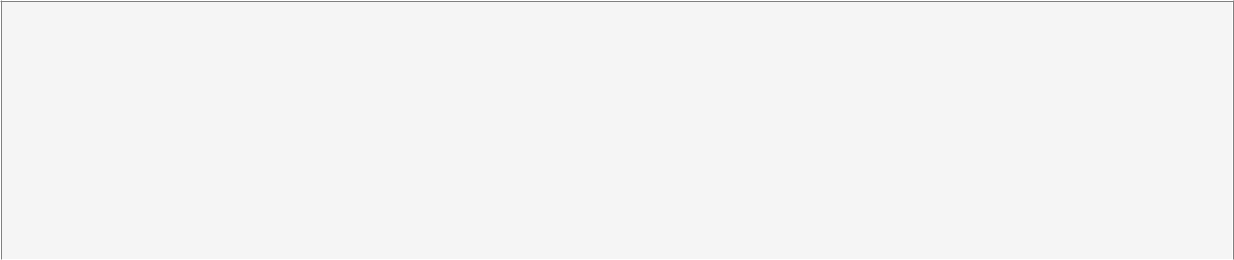
@choice\_num

@content

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(50) | 50 |
| varchar(250) | 250 |
|  |  |



**SQL Script**



CREATE proc [dbo].[UpdateChoiceForQuestion] @Question\_id int , @choice\_num varchar(50) , @content varchar(250)

as

update Choices

set Content = @content

where Question\_Id = @Question\_id and Choice\_Number = @choice\_num

GO

**Uses**

[[dbo].[Choices]](#page11)

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 **[dbo].[UpdateDepartment]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

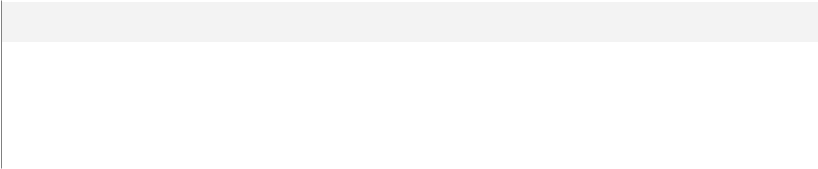


True



True

**Parameters**



**Name**

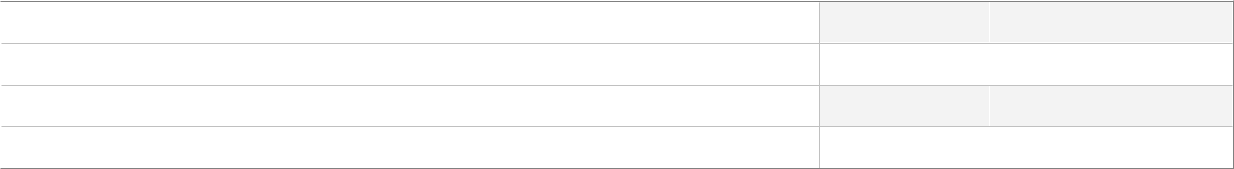
@DepartmentID



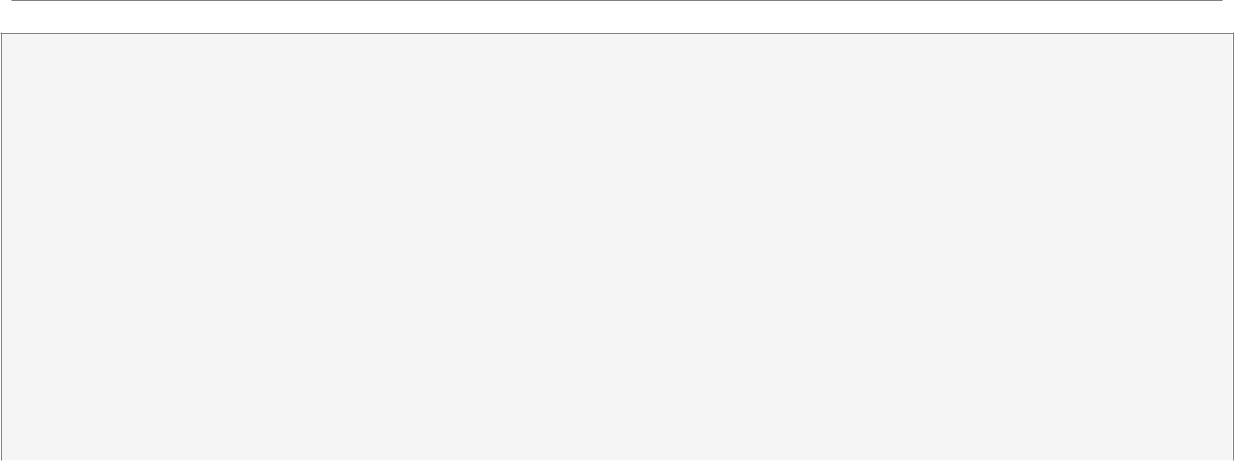
@Department\_Name

@Dept\_Description

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(50) | 50 |
| varchar(200) | 200 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[UpdateDepartment]

@DepartmentID INT,

@Department\_Name VARCHAR(50) = NULL,

@Dept\_Description VARCHAR(200) = NULL

AS

BEGIN

UPDATE Departments

SET Department\_Name = ISNULL(@Department\_Name, Department\_Name), Dept\_Description = ISNULL(@Dept\_Description, Dept\_Description)

WHERE Department\_ID = @DepartmentID;

END;

GO

**Uses**

[[dbo].[Departments]](#page17)

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 **[dbo].[UpdateExam]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

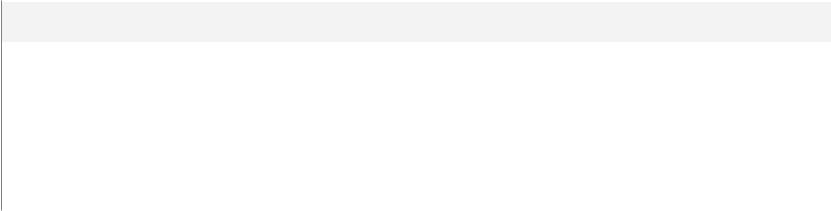


True



True

**Parameters**



**Name**

@Exam\_id



@Exam\_Name

@duration

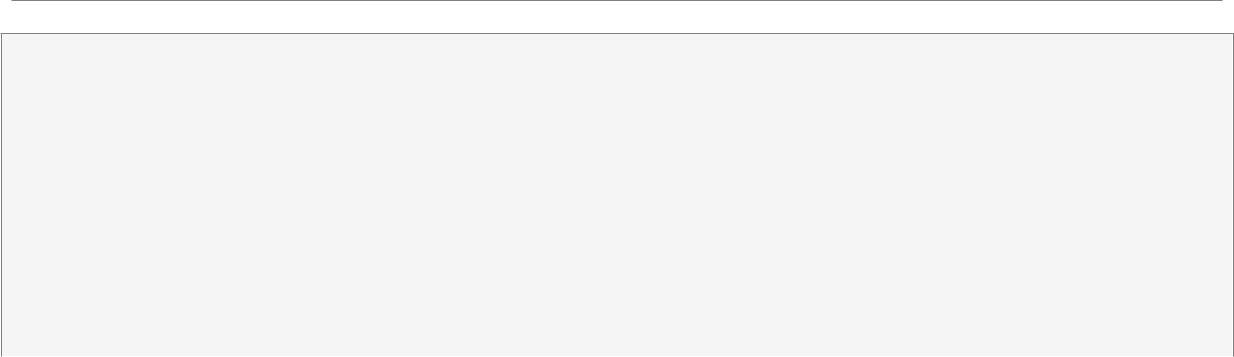


@Crs\_id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(50) | 50 |
| varchar(50) | 50 |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[UpdateExam] @Exam\_id int,@Exam\_Name varchar(50) , @duration varchar(50), @Crs\_id int

as

update Exams

set Exam\_Name =ISNULL(@Exam\_Name,Exam\_Name)

,Exam\_Duration = isnull(@duration,Exam\_Duration) ,

Course\_Id = isnull (@Crs\_id,Course\_Id)

where Exam\_Id = @Exam\_id

GO

**Uses**

[[dbo].[Exams]](#page20)

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 **[dbo].[UpdateQuestion]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

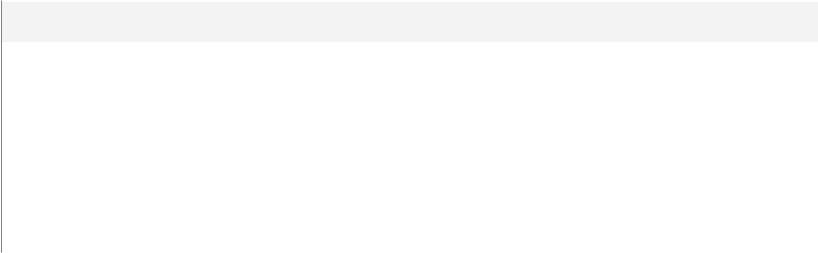


True



True

**Parameters**



**Name**

@id



@grade

@content



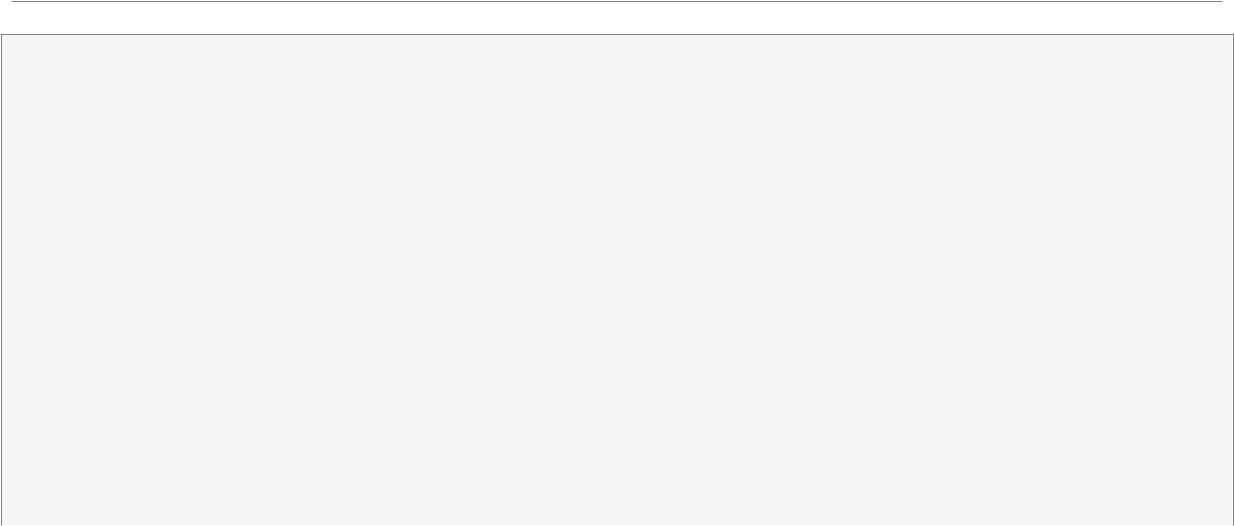
@qust\_type

@crsId

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
| varchar(400) | 400 |
| varchar(100) | 100 |
| int | 4 |
|  |  |



**SQL Script**



CREATE proc [dbo].[UpdateQuestion]

@id int ,

@grade int =NULL,

@content varchar(400)=NULL,

@qust\_type varchar(100)=NULL ,

@crsId int=NULL

as

update Questions

set Content =ISNULL(@content,Content),

Grade = ISNULL(@grade,Grade),

Question\_Type = ISNULL(@qust\_type,Question\_Type), Course\_Id =ISNULL (@crsId , Course\_Id)

where Question\_Id = @id

GO

**Uses**

[[dbo].[Questions]](#page24)

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 **[dbo].[UpdateQuestionInExam]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

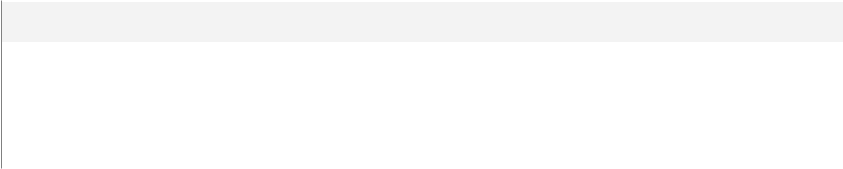


True



True

**Parameters**



**Name**

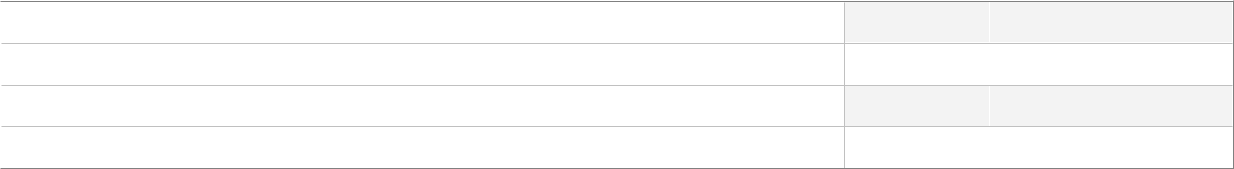
@Exam\_id



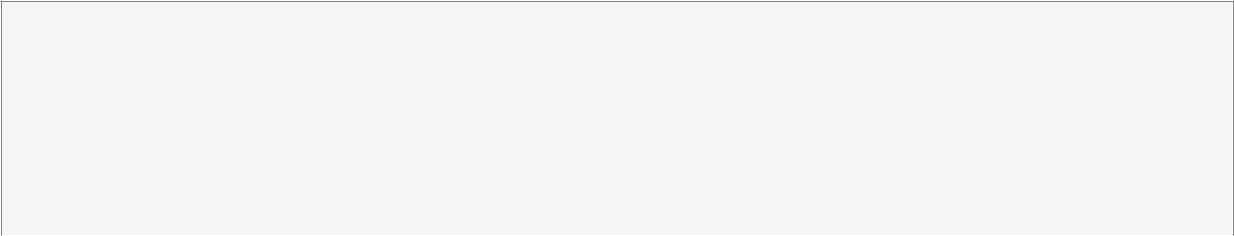
@old\_quest

@newQuest

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
| int | 4 |
|  |  |



**SQL Script**



create proc [dbo].[UpdateQuestionInExam] @Exam\_id int,@old\_quest int , @newQuest int as

update Exam\_Questions

set Question\_Id = @newQuest

where Exam\_ID = @Exam\_id and Question\_Id = @old\_quest

GO

**Uses**

[[dbo].[Exam\_Questions]](#page18)

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 **[dbo].[UpdateStudent]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**



True



True

**Parameters**



**Name**

@StudentID



@FName

@LName



@Age

@Email

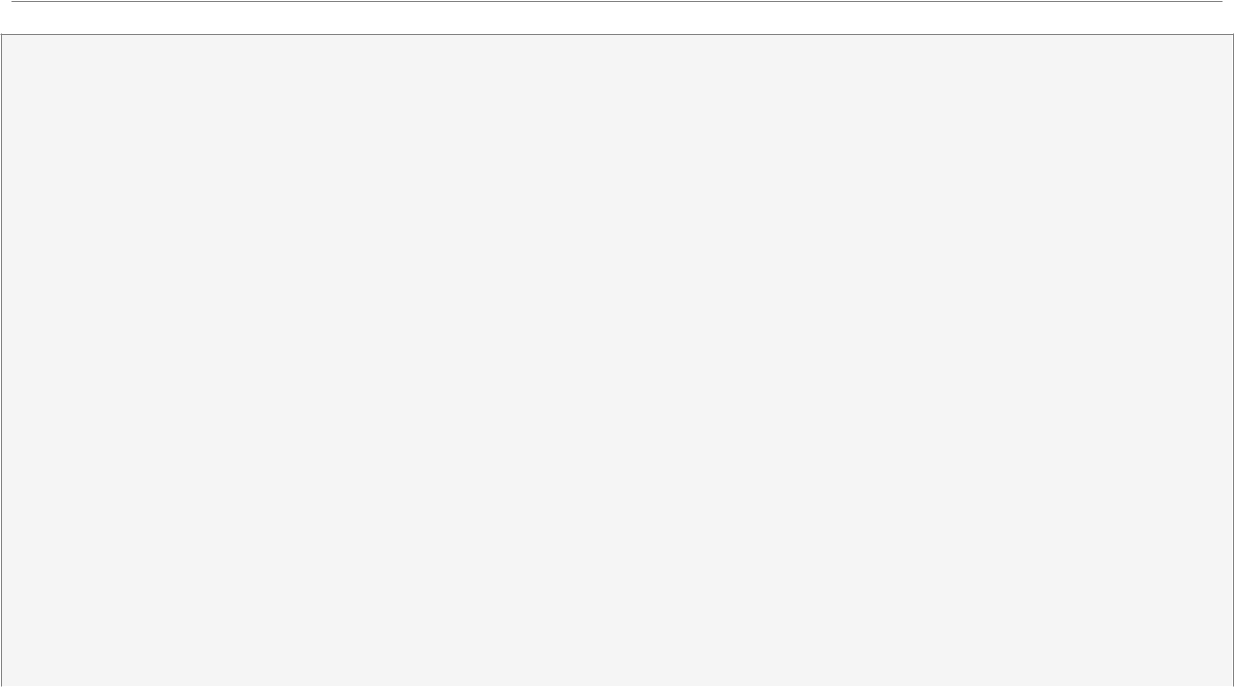


@Dept\_Id

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| varchar(10) | 10 |
| varchar(10) | 10 |
| int | 4 |
| varchar(50) | 50 |
| int | 4 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[UpdateStudent]

@StudentID INT,

@FName VARCHAR(10) = NULL,

@LName VARCHAR(10) = NULL,

@Age INT = NULL,

@Email VARCHAR(50) = NULL,

@Dept\_Id INT = NULL

AS

BEGIN

UPDATE Students

SET FName = ISNULL(@FName, FName),

LName = ISNULL(@LName, LName),

Age = ISNULL(@Age, Age),

Email = ISNULL(@Email, Email),

Dept\_Id = ISNULL(@Dept\_Id, Dept\_Id)

WHERE Student\_Id = @StudentID;

END;

GO

**Uses**

[[dbo].[Students]](#page30)

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Project > [(local)\SQLEXPRESS](#page5) > [User databases](#page6) > [Examination-SystemDB](#page7) > Programmability > [Stored Procedures](#page34) > dbo.Update-StudentAnswerOfQuestionInExam



 **[dbo].[UpdateStudentAnswerOfQuestionInExam]**

**Properties**



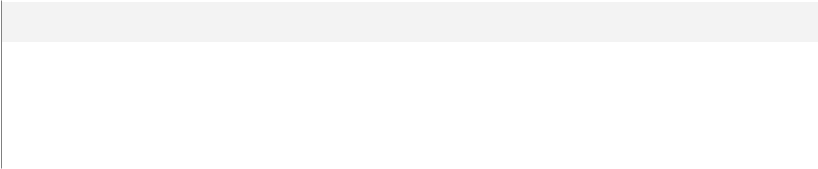
**Property**

ANSI Nulls On



Quoted Identifier On

**Parameters**



**Name**

@stud\_Id



@Quest\_Id

@newAnswer

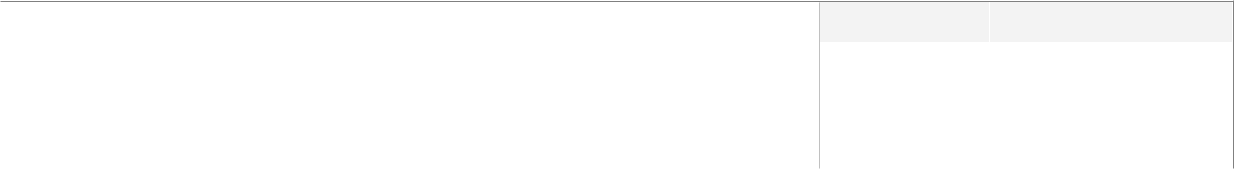
**Value**



True



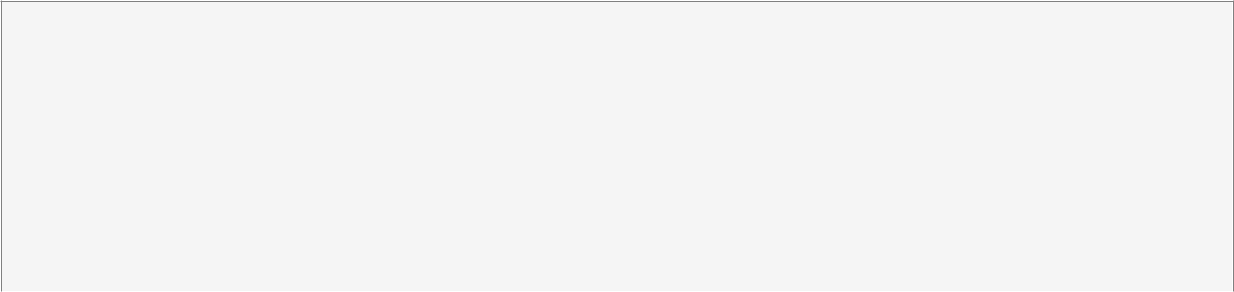
True



|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
| varchar(200) | 200 |
|  |  |



**SQL Script**



--update

create proc [dbo].[UpdateStudentAnswerOfQuestionInExam] @stud\_Id int , @Quest\_Id int , @new-Answer varchar(200)

as

update Student\_Answer\_In\_Exam

set Student\_Answer = @newAnswer

where Student\_Id = @stud\_Id and Question\_Id = @Quest\_Id

GO

**Uses**

[[dbo].[Student\_Answer\_In\_Exam]](#page26)

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 **[dbo].[UpdateStudentCourse]**

**Properties**



**Property**

ANSI Nulls On



Quoted Identifier On

**Value**

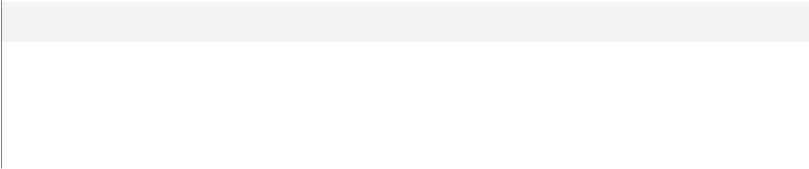


True



True

**Parameters**



**Name**

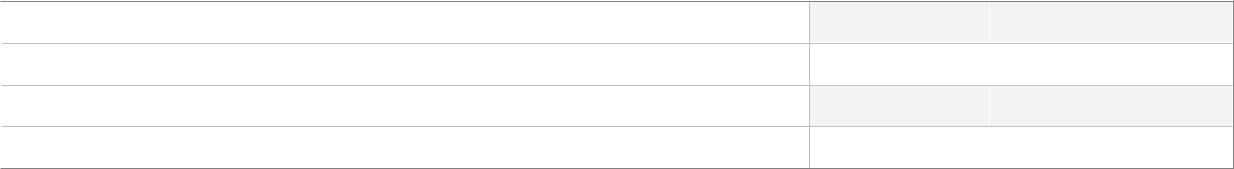
@StudentID



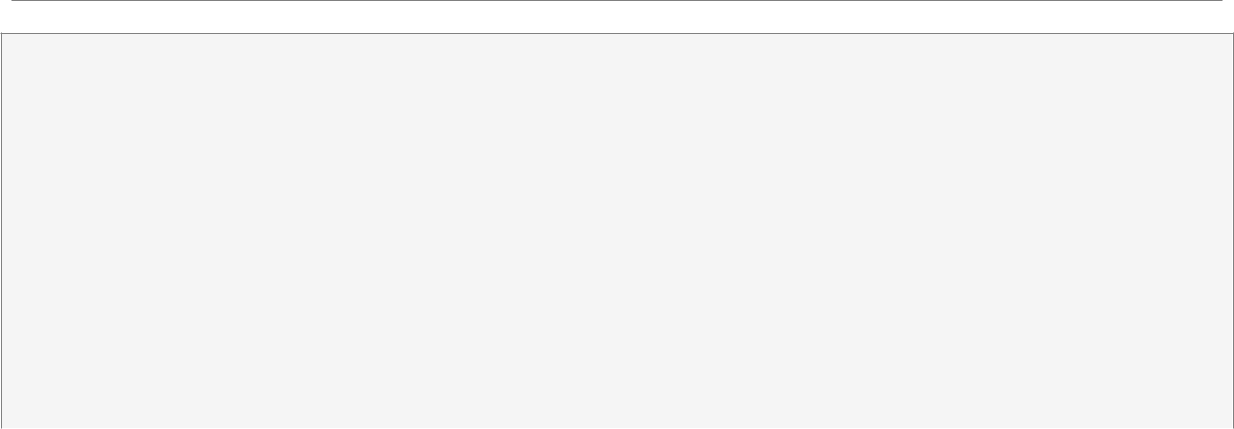
@CourseID

@StudentGrade

|  |  |
| --- | --- |
| **Data Type** | **Max Length (Bytes)** |
| int | 4 |
| int | 4 |
| decimal(18,2) | 9 |
|  |  |



**SQL Script**



CREATE PROC [dbo].[UpdateStudentCourse]

@StudentID INT,

@CourseID INT,

@StudentGrade decimal (18,2)

AS

BEGIN

UPDATE Student\_Courses

SET StudentGrade = @StudentGrade

WHERE Student\_Id = @StudentID and Course\_Id = @CourseID;

END;

GO

**Uses**

[[dbo].[Student\_Courses]](#page28)

**Used By**

[[dbo].[Exam\_Correct]](#page53)

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 ***Users***

**Objects**



**Name**

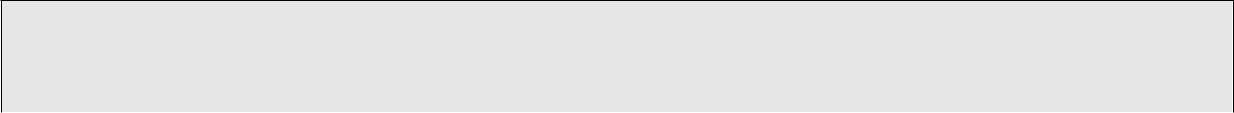
[dbo](#page111)



[guest](#page112)

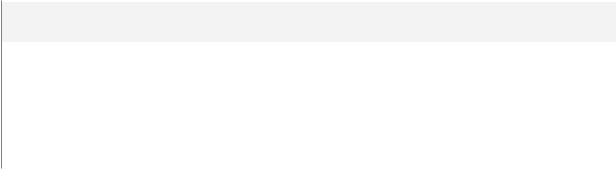
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 **dbo**

**Properties**



**Property**

Type



Login Name

Default Schema

**Value**



SqlUser



sa

dbo

**Database Level Permissions**



**Type**

CONNECT

**Action**

Grant

**SQL Script**



GO

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 **guest**

**Properties**



**Property**

Type



Default Schema

**SQL Script**

GO

**Value**



SqlUser



guest



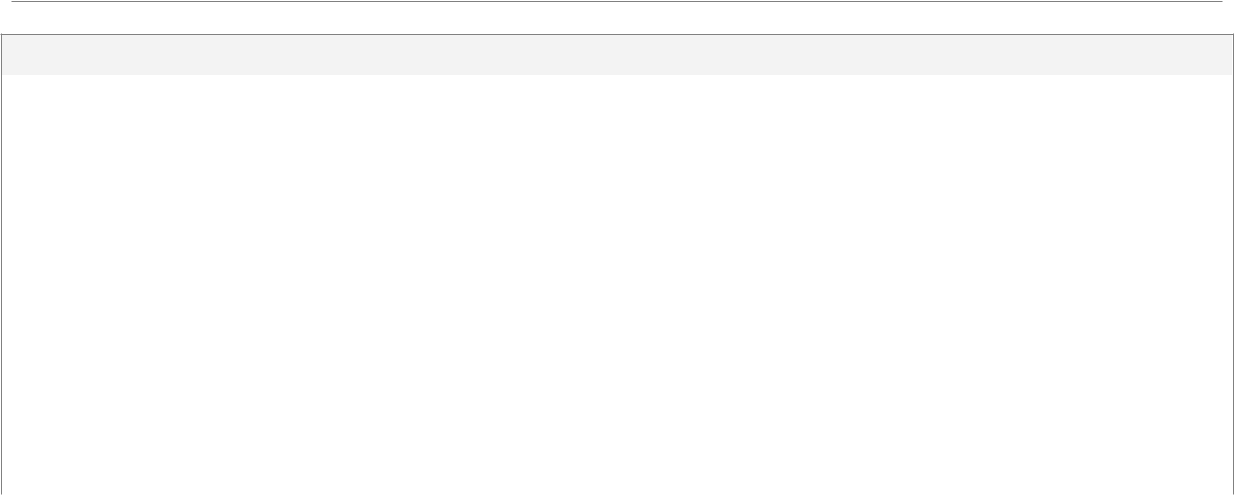
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 ***Database Roles***

**Objects**



**Name**

[db\_accessadmin](#page113)



[db\_backupoperator](#page113)

[db\_datareader](#page114)



[db\_datawriter](#page114)

[db\_ddladmin](#page114)



[db\_denydatareader](#page114)

[db\_denydatawriter](#page115)

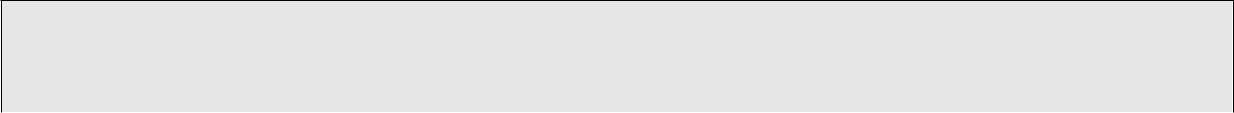


[db\_owner](#page115)

[db\_securityadmin](#page115)

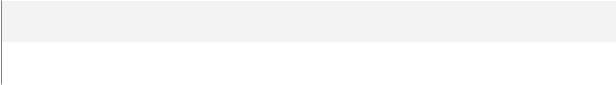


[public](#page115)



 **db\_accessadmin**

**Properties**



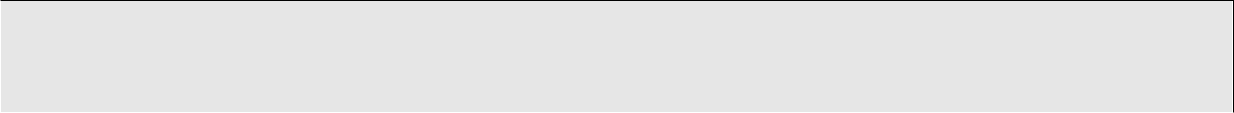
**Property**

Owner

**Value**

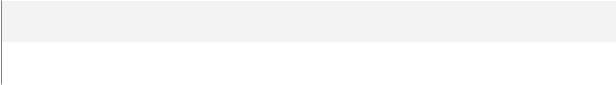


[dbo](#page111)



 **db\_backupoperator**

**Properties**



**Property**

Owner

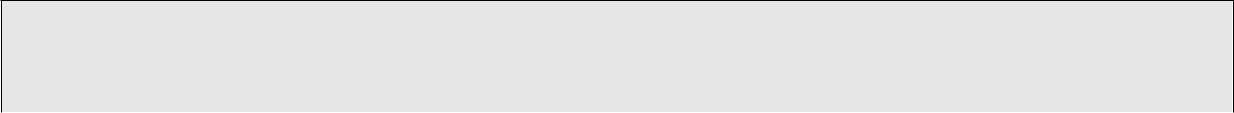
**Value**



[dbo](#page111)

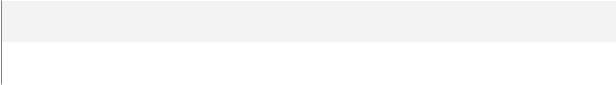
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 **db\_datareader**

**Properties**



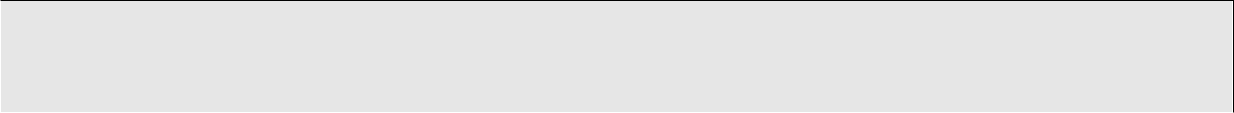
**Property**

Owner

**Value**

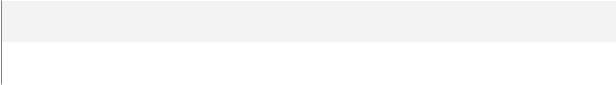


[dbo](#page111)



 **db\_datawriter**

**Properties**



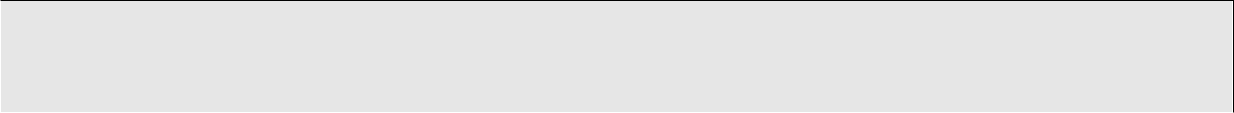
**Property**

Owner

**Value**

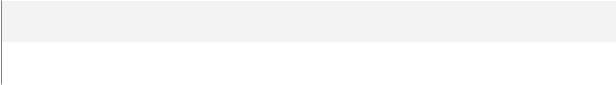


[dbo](#page111)



 **db\_ddladmin**

**Properties**



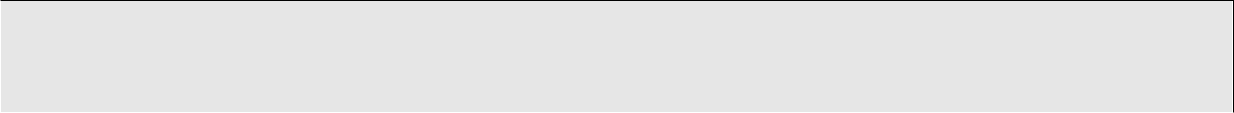
**Property**

Owner

**Value**

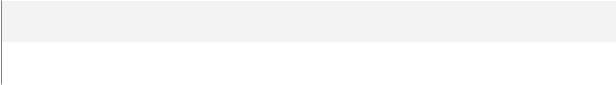


[dbo](#page111)



 **db\_denydatareader**

**Properties**



**Property**

Owner

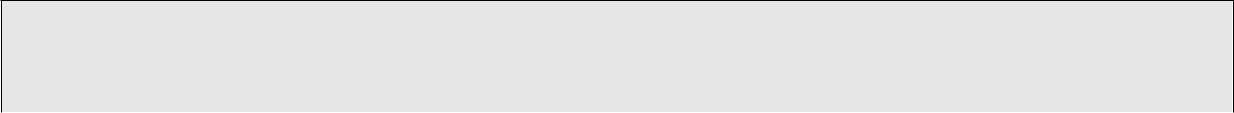
**Value**



[dbo](#page111)

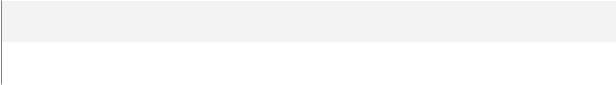
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 **db\_denydatawriter**

**Properties**



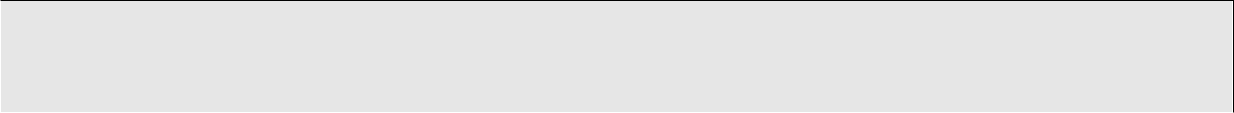
**Property**

Owner

**Value**

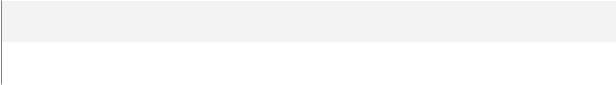


[dbo](#page111)



 **db\_owner**

**Properties**



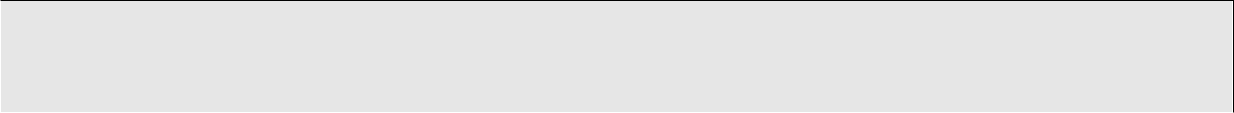
**Property**

Owner

**Value**

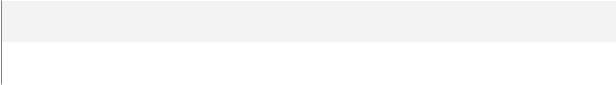


[dbo](#page111)



 **db\_securityadmin**

**Properties**



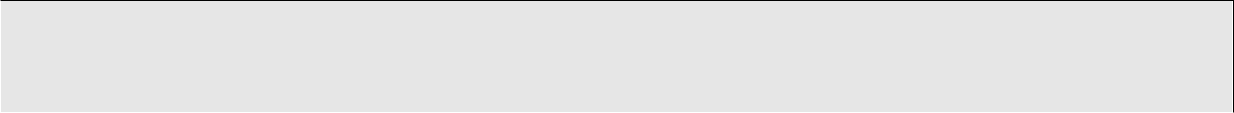
**Property**

Owner

**Value**



[dbo](#page111)

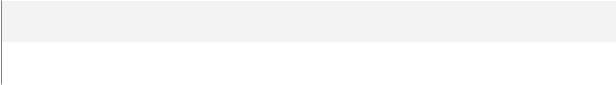


 **public**

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**Properties**



**Property**

Owner

**Value**



[dbo](#page111)

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