# . Documentation

# **Examination\_System**

Server

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Users	
<b>♣</b> dbo	149
<b>1</b> guest	

Database Roles	
db_accessadmin	
db_backupoperator	
db_datareader	
db_datawriter	
db_ddladmin	
db_denydatareader	
db_denydatawriter	
db_owner	
db_securityadmin	
public	



# Databases (1)

• Examination\_System

# **Server Properties**

Property	Value
Product	Microsoft SQL Server
Version	14.0.2037.2
Language	English (United States)
Platform	NT x64
Edition	Developer Edition (64-bit)
Engine Edition	3 (Enterprise)
Processors	8
OS Version	6.3 (19042)
Physical Memory	8067
Is Clustered	False
Root Directory	C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL
Collation	SQL_Latin1_General_CP1_CI_AS

# Server Settings

Property	Value
Default data file path	C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\DATA\
Default backup file path	C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\Backup
Default log file path	C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\DATA\
Recovery Interval (minutes)	0
Default index fill factor	0
Default backup media retention	0
Compress Backup	False

### **Advanced Server Settings**

Property	Value
Locks	0
Nested triggers enabled	True

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

# ☐ User databases

Databases (1)

• Examination\_System

# $\blacksquare$ Examination\_System Database

### **Database Properties**

Property	Value
SQL Server Version	SQL Server 2017
Compatibility Level	SQL Server 2017
Last backup time	02/25/2022
Last log backup time	-
Creation date	Feb 25 2022
Users	4
Database Encryption Enabled	False
Database Encryption Algorithm	None
Database size	80.00 MB
Unallocated space	3.34 MB

### **Database Options**

Property	Value
Compatibility Level	140
Database collation	SQL_Latin1_General_CP1_CI_AS
Restrict access	MULTI_USER
Is read-only	False
Auto close	False
Auto shrink	False
Database status	ONLINE
In standby	False
Cleanly shutdown	False
Supplemental logging enabled	False
Snapshot isolation state	OFF
Read committed snapshot on	False
Recovery model	FULL
Page verify option	CHECKSUM
Auto create statistics	True
Auto update statistics	True
Auto update statistics asynchronously	False
ANSI NULL default	False
ANSI NULL enabled	False
ANSI padding enabled	False

ANSI warnings enabled	False
Arithmetic abort enabled	False
Concatenating NULL yields NULL	False
Numeric roundabort enabled	False
Quoted Identifier On	False
Recursive triggers enabled	False
Close cursors on commit	False
Local cursors by default	False
Fulltext enabled	True
Trustworthy	False
Database chaining	False
Forced parameterization	False
Master key encrypted by server	False
Published	False
Subscribed	False
Merge published	False
Is distribution database	False
Sync with backup	False
Service broker GUID	9f7af308-72be-4a2c-9781-64eca7c5a325
Service broker enabled	False
Log reuse wait	NOTHING
Date correlation	False
CDC enabled	False
Encrypted	False
Honor broker priority	False
Default language	English
Default fulltext language LCID	1033
Nested triggers enabled	True
Transform noise words	False
Two-digit year cutoff	2049
Containment	NONE
Target recovery time	60
Database owner	DESKTOP-HUO1QJ1\Taha Computech

#### Files

Name	Туре	Size	Maxsize	Autogrowth	File Name
Examination_System	Data	8.00 MB	unlimited	64.00 MB	C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSE RVER\MSSQL\DATA\Examin ation_System.mdf

Examination_System_log	Log	72.00 MB	2048.00 GB	64.00 MB	C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSE RVER\MSSQL\DATA\Examin ation_System_log.ldf
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# **■** Tables

# Objects

Name
dbo.Course
dbo.Department
dbo.Exam
dbo.Exam_has_Ques
dbo.Ins_Course_Teach
dbo.lns_Dept_Work
dbo.Instructor
dbo.Ques_Choices
dbo.Question
dbo.Stud_Course
dbo.Stud_Solve
dbo.Student
dbo.Topic

# [dbo].[Course]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	6
Created	6:02:20 PM Monday, January 31, 2022
Last Modified	1:17:50 AM Thursday, February 24, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity
PK	Crs_ID	int	4	NOT NULL	1 - 1
. <del></del>	Crs_Name	varchar(50)	50	NOT NULL	
	Duration	int	4	NULL allowed	

#### **Indexes**

Key	Name	Key Columns	Unique
PK C	PK_Course	Crs_ID	True
	UQCourseE2D24123D960CD45	Crs_Name	True

```
CREATE TABLE [dbo].[Course]

(
[Crs_ID] [int] NOT NULL IDENTITY(1, 1),
[Crs_Name] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Duration] [int] NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Course] ADD CONSTRAINT [PK_Course] PRIMARY KEY CLUSTERED ([Crs_ID])

ON [PRIMARY]

GO

ALTER TABLE [dbo].[Course] ADD CONSTRAINT [UQ__Course__E2D24123D960CD45] UNIQUE

NONCLUSTERED ([Crs_Name]) ON [PRIMARY]

GO
```

#### **Used By**

[dbo].[Exam]

[dbo].[Ins\_Course\_Teach]

[dbo].[Question]

[dbo].[Stud\_Course]

[dbo].[Topic]

[dbo].[DeleteCourse]

[dbo].[generate\_exam]

[dbo].[insertIntoCourse]

[dbo].[insertIntoExam]

[dbo].[insertIntoIns\_Course\_Teach]

[dbo].[insertIntoQuestion]

[dbo].[insertIntoStudCourse]

[dbo].[insertIntoTopic]

[dbo].[R2\_StudGradINCourses]

[dbo].[R3 InsTeachCourse]

[dbo].[R4\_TopicsINCourses]

[dbo].[SelectAllCourse]

[dbo].[UpdateCourseDuration]

[dbo].[UpdateCourseName]

# [dbo].[Department]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	7
Created	5:42:04 PM Monday, January 31, 2022
Last Modified	5:42:04 PM Monday, January 31, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity	Default
PK	Dept_ID	int	4	NOT NULL	1 - 1	
<b>.</b>	Dept_Name	varchar(50)	50	NOT NULL		
	Description	varchar(max)	max	NULL allowed		
FK	Ins_ID	int	4	NULL allowed		
	Hire_Date	date	3	NULL allowed		(getdate())

#### Indexes

Key	Name	Key Columns	Unique
PKP C	PK_Department	Dept_ID	True
	UQDepartmeB744FF0FA65E835C	Dept_Name	True

#### Foreign Keys

Name	Delete	Columns
FK_Department_Instructor	SetNull	Ins_ID->[dbo].[Instructor].[Ins_ID]

```
CREATE TABLE [dbo].[Department]

(
[Dept_ID] [int] NOT NULL IDENTITY(1, 1),

[Dept_Name] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

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

[Ins_ID] [int] NULL,

[Hire_Date] [date] NULL CONSTRAINT [DF_Department_Hire_Date] DEFAULT (getdate())
```

```
ON [PRIMARY]

GO

ALTER TABLE [dbo].[Department] ADD CONSTRAINT [PK_Department] PRIMARY KEY CLUSTERED

([Dept_ID]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Department] ADD CONSTRAINT [UQ_Departme_B744FF0FA65E835C] UNIQUE

NONCLUSTERED ([Dept_Name]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Department] ADD CONSTRAINT [FK_Department_Instructor] FOREIGN KEY

([Ins_ID]) REFERENCES [dbo].[Instructor] ([Ins_ID]) ON DELETE SET NULL

GO
```

#### [dbo].[Instructor]

#### **Used By**

[dbo].[Ins\_Dept\_Work]

[dbo].[Student]

[dbo].[DeleteDepartment]

[dbo].[insertIntoDepartment]

[dbo].[insertIntoIns\_Dept\_Work]

[dbo].[insertIntoStudent]

[dbo].[Select\_Department\_With\_Id]

[dbo].[SelectAllDepartment]

[dbo].[UpdateDepartmentDescribe]

[dbo].[UpdateDepartmentHiredate]

[dbo].[UpdateDepartmentManager]

[dbo].[UpdateDepartmentName]

# [dbo].[Exam]

#### **Properties**

Property	Value
Row Count (~)	6
Created	10:59:58 PM Sunday, January 23, 2022
Last Modified	1:19:42 AM Thursday, February 24, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity
PK2 C	Exam_ID	int	4	NOT NULL	1 - 1
FK	Crs_ID	int	4	NOT NULL	

#### Indexes

Key	Name	Key Columns	Unique
PK C	PK_Exam	Exam_ID	True

### Foreign Keys

Name	Update	Columns
FK_Exam_Course	Cascade	Crs_ID->[dbo].[Course].[Crs_ID]

```
CREATE TABLE [dbo].[Exam]

(
[Exam_ID] [int] NOT NULL IDENTITY(1, 1),

[Crs_ID] [int] NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Exam] ADD CONSTRAINT [PK_Exam] PRIMARY KEY CLUSTERED ([Exam_ID]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Exam] ADD CONSTRAINT [FK_Exam_Course] FOREIGN KEY ([Crs_ID])

REFERENCES [dbo].[Course] ([Crs_ID]) ON UPDATE CASCADE

GO
```

[dbo].[Course]

#### **Used By**

[dbo].[Exam\_has\_Ques]

[dbo].[Stud\_Solve]

[dbo].[DeleteExam]

[dbo].[Exam\_Correction]

[dbo].[generate\_exam]

[dbo].[insertIntoExam]

[dbo].[insertIntoExam\_has\_Ques]

[dbo].[insertIntoStud\_Solve]

[dbo].[SelectALLExam]

[dbo].[SelectAllQuesINExam]

[dbo].[UpdateExamCourse]

# [dbo].[Exam\_has\_Ques]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	60
Created	5:07:23 PM Thursday, January 27, 2022
Last Modified	1:17:51 AM Thursday, February 24, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PKC FKC	Exam_ID	int	4	NOT NULL
PKC FKG	Q_ID	int	4	NOT NULL
	Q_T	varchar(50)	50	NULL allowed

#### Indexes

Key	Name	Key Columns	Unique
PK C	PK_Exam_has_Ques	Exam_ID, Q_ID	True

#### Foreign Keys

Name	Delete Columns	
FK_Exam_has_Ques_Exam	es_Exam Cascade Exam_ID->[dbo].[Exam].[Exam	
FK_Exam_has_Ques_Question	Cascade	Q_ID->[dbo].[Question].[Q_ID]

```
CREATE TABLE [dbo].[Exam_has_Ques]

(
[Exam_ID] [int] NOT NULL,

[Q_ID] [int] NOT NULL,

[Q_T] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Exam_has_Ques] ADD CONSTRAINT [PK_Exam_has_Ques] PRIMARY KEY
CLUSTERED ([Exam_ID], [Q_ID]) ON [PRIMARY]
```

```
ALTER TABLE [dbo].[Exam_has_Ques] ADD CONSTRAINT [FK_Exam_has_Ques_Exam] FOREIGN KEY
([Exam_ID]) REFERENCES [dbo].[Exam] ([Exam_ID]) ON DELETE CASCADE

GO
ALTER TABLE [dbo].[Exam_has_Ques] ADD CONSTRAINT [FK_Exam_has_Ques_Question] FOREIGN
KEY ([Q_ID]) REFERENCES [dbo].[Question] ([Q_ID]) ON DELETE CASCADE

GO
```

[dbo].[Exam] [dbo].[Question]

#### **Used By**

[dbo].[DeleteQuestionOnExam]

[dbo].[Exam\_Answers]

[dbo].[FormateExam]

[dbo].[generate\_exam]

[dbo].[insertIntoExam\_has\_Ques]

[dbo].[Model\_Answer]

[dbo].[R5\_QuestionsINExam]

[dbo].[SelectAllExamHasQues]

[dbo].[SelectAllQuesINExam]

[dbo].[SelectExamData]

[dbo].[UpdateExamQuestion]

# [dbo].[Ins\_Course\_Teach]

### **Properties**

Property	Value
Row Count (~)	19
Created	9:52:29 PM Friday, January 21, 2022
Last Modified	6:02:21 PM Monday, January 31, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PKO FKO	Ins_ID	int	4	NOT NULL
PKO FKO	Crs_ID	int	4	NOT NULL
	Evaluation	tinyint	1	NULL allowed

#### Indexes

Key	Name	Key Columns	Unique
PK C	PK_Ins_Course_Teach	Ins_ID, Crs_ID	True

#### **Check Constraints**

Name	On Column	Constraint
Evaluation	Evaluation	([Evaluation]>=(1) AND [Evaluation]<=(5))

# Foreign Keys

Name	Update	pdate Columns	
FK_Ins_Course_Teach_Course	Cascade	Crs_ID->[dbo].[Course].[Crs_ID]	
FK_Ins_Course_Teach_Instructor	Cascade	Ins_ID->[dbo].[Instructor].[Ins_ID]	

```
CREATE TABLE [dbo].[Ins_Course_Teach]
(
[Ins_ID] [int] NOT NULL,
```

```
[Crs_ID] [int] NOT NULL,

[Evaluation] [tinyint] NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Ins_Course_Teach] ADD CONSTRAINT [Evaluation] CHECK

(([Evaluation]>=(1) AND [Evaluation]<=(5)))

GO

ALTER TABLE [dbo].[Ins_Course_Teach] ADD CONSTRAINT [PK_Ins_Course_Teach] PRIMARY KEY

CLUSTERED ([Ins_ID], [Crs_ID]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Ins_Course_Teach] ADD CONSTRAINT [FK_Ins_Course_Teach_Course]

FOREIGN KEY ([Crs_ID]) REFERENCES [dbo].[Course] ([Crs_ID]) ON UPDATE CASCADE

GO

ALTER TABLE [dbo].[Ins_Course_Teach] ADD CONSTRAINT [FK_Ins_Course_Teach_Instructor]

FOREIGN KEY ([Ins_ID]) REFERENCES [dbo].[Instructor] ([Ins_ID]) ON UPDATE CASCADE

GO
```

[dbo].[Course] [dbo].[Instructor]

#### **Used By**

[dbo].[DeleteIns\_Course\_Teach]
[dbo].[insertIntoIns\_Course\_Teach]
[dbo].[R3\_InsTeachCourse]
[dbo].[SelectALLInsCourseTeach]
[dbo].[UpdateCourseInst]
[dbo].[UpdateEvaluation]
[dbo].[UpdateInstCourse]

# [dbo].[Ins\_Dept\_Work]

#### **Properties**

Property	Value
Row Count (~)	10
Created	9:43:27 PM Friday, January 21, 2022
Last Modified	5:42:04 PM Monday, January 31, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PKO FKO	Ins_ID	int	4	NOT NULL
FK	Dept_ID	int	4	NULL allowed

#### Indexes

Key	Name	Key Columns	Unique
PK C	PK_Ins_Dept_Work	Ins_ID	True

#### Foreign Keys

Name	Update	Delete	Columns
FK_Ins_Dept_Work_Department	Cascade	SetNull	Dept_ID->[dbo].[Department].[Dept_ID]
FK_Ins_Dept_Work_Instructor			Ins_ID->[dbo].[Instructor].[Ins_ID]

```
CREATE TABLE [dbo].[Ins_Dept_Work]

(
[Ins_ID] [int] NOT NULL,
[Dept_ID] [int] NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Ins_Dept_Work] ADD CONSTRAINT [PK_Ins_Dept_Work] PRIMARY KEY
CLUSTERED ([Ins_ID]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Ins_Dept_Work] ADD CONSTRAINT [FK_Ins_Dept_Work_Department] FOREIGN
KEY ([Dept_ID]) REFERENCES [dbo].[Department] ([Dept_ID]) ON DELETE SET NULL ON UPDATE
CASCADE

GO
```

```
ALTER TABLE [dbo].[Ins_Dept_Work] ADD CONSTRAINT [FK_Ins_Dept_Work_Instructor] FOREIGN
KEY ([Ins_ID]) REFERENCES [dbo].[Instructor] ([Ins_ID])
GO
```

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

#### **Used By**

[dbo].[DeleteIns\_Dept\_Work]
[dbo].[insertIntoIns\_Dept\_Work]
[dbo].[SelectALLInsDeptWork]
[dbo].[UpdateDapartmentInstructor]

# [dbo].[Instructor]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	10
Created	11:04:14 PM Sunday, January 23, 2022
Last Modified	5:42:04 PM Monday, January 31, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity
PKP C	Ins_ID	int	4	NOT NULL	1 - 1
	Ins_Name	varchar(50)	50	NOT NULL	
	Salary	float	8	NULL allowed	
	Hourly_Rate	float	8	NULL allowed	
	Bouns	float	8	NULL allowed	
	Address	varchar(50)	50	NULL allowed	

#### Indexes

Key	Name	Key Columns	Unique
PKP G	PK_Instructor	Ins_ID	True

```
CREATE TABLE [dbo].[Instructor]

(
[Ins_ID] [int] NOT NULL IDENTITY(1, 1),

[Ins_Name] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[Salary] [float] NULL,

[Hourly_Rate] [float] NULL,

[Bouns] [float] NULL,

[Address] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Instructor] ADD CONSTRAINT [PK_Instructor] PRIMARY KEY CLUSTERED

([Ins_ID]) ON [PRIMARY]

GO
```

#### **Used By**

[dbo].[Department]

[dbo].[Ins\_Course\_Teach]

[dbo].[Ins\_Dept\_Work]

[dbo].[DeleteInstructor]

[dbo].[insertIntoDepartment]

[dbo].[insertIntoIns\_Course\_Teach]

[dbo].[insertIntoIns\_Dept\_Work]

[dbo].[insertIntoInstructor]

[dbo].[R3\_InsTeachCourse]

[dbo].[Select\_Instructor\_With\_Id]

[dbo].[SelectAllInstructor]

[dbo].[UpdateInsAddress]

[dbo].[UpdateInsBonus]

[dbo].[UpdateInsHourlyrate]

[dbo].[UpdateInsName]

[dbo].[UpdateInsSalary]

# [dbo].[Ques\_Choices]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Неар	True
Row Count (~)	119
Created	5:46:21 PM Friday, February 25, 2022
Last Modified	5:46:22 PM Friday, February 25, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
FK	Q_ID	int	4	NOT NULL
	Q_Choices	varchar(max)	max	NOT NULL

#### Foreign Keys

Name	Update	Delete	Columns
FK_Ques_Choices_Question	Cascade	Cascade	Q_ID->[dbo].[Question].[Q_ID]

#### **SQL Script**

```
CREATE TABLE [dbo].[Ques_Choices]

(
[Q_ID] [int] NOT NULL,

[Q_Choices] [varchar] (max) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Ques_Choices] ADD CONSTRAINT [FK_Ques_Choices_Question] FOREIGN KEY
([Q_ID]) REFERENCES [dbo].[Question] ([Q_ID]) ON DELETE CASCADE ON UPDATE CASCADE

GO
```

#### Uses

#### [dbo].[Question]

#### **Used By**

[dbo].[FormateExam]
[dbo].[insertIntoQues\_Choices]

Author: Amani Hamdy

[dbo].[insertIntoQuesChoices]

[dbo].[R5\_QuestionsINExam]

[dbo].[SelectAllQuesChoices]

[dbo].[SelectAllQuesINExam]

[dbo].[SelectExamData]

[dbo].[UpdateChoice]

# [dbo].[Question]

### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	40
Created	1:17:49 AM Thursday, February 24, 2022
Last Modified	5:46:22 PM Friday, February 25, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity
PK	Q_ID	int	4	NOT NULL	1 - 1
	Q_Name	varchar(max)	max	NOT NULL	
	Model_Ans	varchar(max)	max	NOT NULL	
	Q_Grade	int	4	NOT NULL	
	Q_Type	varchar(50)	50	NOT NULL	
FK	Crs_ID	int	4	NOT NULL	

#### Indexes

Key	Name	Key Columns	Unique
PKC	PK_Question	Q_ID	True

#### **Check Constraints**

Name	On Column	Constraint
Q_Type	Q_Type	([Q_Type]='MCQ' OR [Q_Type]='T/F')

# Foreign Keys

Name	Update	Columns
FK_Question_Course	Cascade	Crs_ID->[dbo].[Course].[Crs_ID]

### **SQL Script**

CREATE TABLE [dbo].[Question]

```
[Q_ID] [int] NOT NULL IDENTITY(1, 1),
[Q Name] [varchar] (max) COLLATE SQL Latin1 General CP1 CI AS NOT NULL,
[Model Ans] [varchar] (max) COLLATE SQL Latin1 General CP1 CI AS NOT NULL,
[Q_Grade] [int] NOT NULL,
[Q Type] [varchar] (50) COLLATE SQL Latin1 General CP1 CI AS NOT NULL,
[Crs_ID] [int] NOT NULL
ON [PRIMARY]
GO
ALTER TABLE [dbo].[Question] ADD CONSTRAINT [Q Type] CHECK (([Q Type]='MCQ' OR [Q -
Type] = 'T/F'))
GO
ALTER TABLE [dbo]. [Question] ADD CONSTRAINT [PK Question] PRIMARY KEY CLUSTERED ([Q -
ID]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Question] ADD CONSTRAINT [FK_Question_Course] FOREIGN KEY ([Crs_ID])
REFERENCES [dbo].[Course] ([Crs ID]) ON UPDATE CASCADE
```

#### [dbo].[Course]

#### **Used By**

```
[dbo].[Exam_has_Ques]
[dbo].[Ques_Choices]
[dbo].[Stud_Solve]
[dbo].[DeleteQuestion]
[dbo].[Exam_Correction]
[dbo].[FormateExam]
[dbo].[generate_exam]
[dbo].[insertIntoExam_has_Ques]
[dbo].[insertIntoQues Choices]
[dbo].[insertIntoQuestion]
[dbo].[insertIntoStud_Solve]
[dbo].[Model Answer]
[dbo].[R5_QuestionsINExam]
[dbo].[R6_StudentSolve]
[dbo].[SelectAllQuesINExam]
[dbo].[SelectAllQuestion]
[dbo].[SelectExamData]
[dbo].[UpdateModelanswer]
[dbo].[UpdateQCourse]
[dbo].[UpdateQGrade]
[dbo].[UpdateQuestion]
```

# [dbo].[Stud\_Course]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	18
Created	10:09:40 PM Sunday, January 23, 2022
Last Modified	6:02:21 PM Monday, January 31, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
PKC FKC	Stud_ID	varchar(14)	14	NOT NULL
PKC FKG	Crs_ID	int	4	NOT NULL
	Total_Grade	int	4	NULL allowed

#### Indexes

Key	Name	Key Columns	Unique
PK C	PK_Stud_Course	Stud_ID, Crs_ID	True

### Foreign Keys

Name	Update Columns	
FK_Stud_Course_Course	Cascade	Crs_ID->[dbo].[Course].[Crs_ID]
FK_Stud_Course_Student	Cascade	Stud_ID->[dbo].[Student].[National_ID]

```
CREATE TABLE [dbo].[Stud_Course]

(
[Stud_ID] [varchar] (14) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[Crs_ID] [int] NOT NULL,

[Total_Grade] [int] NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Stud_Course] ADD CONSTRAINT [PK_Stud_Course] PRIMARY KEY CLUSTERED

([Stud_ID], [Crs_ID]) ON [PRIMARY]
```

```
ALTER TABLE [dbo].[Stud_Course] ADD CONSTRAINT [FK_Stud_Course_Course] FOREIGN KEY
([Crs_ID]) REFERENCES [dbo].[Course] ([Crs_ID]) ON UPDATE CASCADE

GO
ALTER TABLE [dbo].[Stud_Course] ADD CONSTRAINT [FK_Stud_Course_Student] FOREIGN KEY
([Stud_ID]) REFERENCES [dbo].[Student] ([National_ID]) ON UPDATE CASCADE

GO
```

[dbo].[Course] [dbo].[Student]

#### **Used By**

[dbo].[DeleteStudFromCourse]

[dbo].[Exam\_Correction]

[dbo].[insertIntoStudCourse]

[dbo].[R2\_StudGradINCourses]

[dbo].[R3\_InsTeachCourse]

[dbo].[SelectALLStudCourse]

[dbo].[UpdateStudentTotalgrade]

# [dbo].[Stud\_Solve]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	20
Created	1:19:41 AM Thursday, February 24, 2022
Last Modified	1:19:42 AM Thursday, February 24, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Default
PKC FK	Stud_ID	varchar(14)	14	NOT NULL	((0))
PKP C FKP	Q_ID	int	4	NOT NULL	((0))
PKO FKO	Exam_ID	int	4	NOT NULL	((0))
	Stud_Ans	varchar(max)	max	NULL allowed	
	Ans_Grade	int	4	NOT NULL	((0))

#### Indexes

Key	Name	Key Columns	Unique
PK C	PK_Stud_Solve	Stud_ID, Q_ID, Exam_ID	True

### Foreign Keys

Name	Update	Delete	Columns
FK_Stud_Solve_Exam		Cascade	Exam_ID->[dbo].[Exam].[Exam_ID]
FK_Stud_Solve_Question	Cascade	Cascade	Q_ID->[dbo].[Question].[Q_ID]
FK_Stud_Solve_Student	Cascade		Stud_ID->[dbo].[Student].[National_ID]

```
CREATE TABLE [dbo].[Stud_Solve]
(
[Stud_ID] [varchar] (14) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL CONSTRAINT [DF_-
Stud_Solve_Stud_ID] DEFAULT ((0)),
```

```
[Q_ID] [int] NOT NULL CONSTRAINT [DF_Stud_Solve_Q_ID] DEFAULT ((0)),

[Exam_ID] [int] NOT NULL CONSTRAINT [DF_Stud_Solve_Exam_ID] DEFAULT ((0)),

[Stud_Ans] [varchar] (max) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,

[Ans_Grade] [int] NOT NULL CONSTRAINT [DF_Stud_Solve_Ans_Grade] DEFAULT ((0))

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Stud_Solve] ADD CONSTRAINT [PK_Stud_Solve] PRIMARY KEY CLUSTERED ([Stud_ID], [Q_ID], [Exam_ID]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Stud_Solve] ADD CONSTRAINT [FK_Stud_Solve_Exam] FOREIGN KEY ([Exam_-ID]) REFERENCES [dbo].[Exam] ([Exam_ID]) ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Stud_Solve] ADD CONSTRAINT [FK_Stud_Solve_Question] FOREIGN KEY ([Q_-ID]) REFERENCES [dbo].[Question] ([Q_ID]) ON DELETE CASCADE ON UPDATE CASCADE

GO

ALTER TABLE [dbo].[Stud_Solve] ADD CONSTRAINT [FK_Stud_Solve_Student] FOREIGN KEY ([Stud_ID]) REFERENCES [dbo].[Student] ([National_ID]) ON UPDATE CASCADE

GO

ALTER TABLE [dbo].[Stud_Solve] ADD CONSTRAINT [FK_Stud_Solve_Student] FOREIGN KEY ([Stud_ID]) REFERENCES [dbo].[Student] ([National_ID]) ON UPDATE CASCADE
```

[dbo].[Exam]

[dbo].[Question]

[dbo].[Student]

#### **Used By**

[dbo].[DeleteStud SolveExam]

[dbo].[DeleteStud SolveQuesInExam]

[dbo].[Exam Answers]

[dbo].[Exam Correction]

[dbo].[insertIntoStud\_Solve]

[dbo].[R6\_StudentSolve]

[dbo].[SelectAllStudSolve]

[dbo].[SelectStudSolveWithID]

[dbo].[UpdateStudentQanswer]

[dbo].[UpdateStudentQgrade]

# [dbo].[Student]

# **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	17
Created	10:57:53 PM Sunday, January 23, 2022
Last Modified	1:19:42 AM Thursday, February 24, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
<b>₽</b> /2 <b>■</b>	National_ID	varchar(14)	14	NOT NULL
	F_Name	varchar(50)	50	NOT NULL
	L_Name	varchar(50)	50	NULL allowed
	Address	varchar(max)	max	NULL allowed
	Age	int	4	NULL allowed
	Email	varchar(100)	100	NOT NULL
	Password	varchar(50)	50	NOT NULL
FK	Dept_ID	int	4	NULL allowed

#### Indexes

Key	Name	Key Columns	Unique
PK	PK_Student	National_ID	True

#### **Check Constraints**

Name	On Column	Constraint	
S_Age	Age	([Age]>=(21) AND [Age]<=(28))	
S_National	National_ID	(len([National_ID])=(14) AND NOT [National_ID] like '%[^0-9]%')	

# Foreign Keys

Name	Update	Delete	Columns
FK_Student_Department	Cascade	SetNull	Dept_ID->[dbo].[Department].[Dept_ID]

#### **SQL Script**

```
CREATE TABLE [dbo].[Student]
[National_ID] [varchar] (14) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[F Name] [varchar] (50) COLLATE SQL Latin1 General CP1 CI AS NOT NULL,
[L Name] [varchar] (50) COLLATE SQL Latin1 General CP1 CI AS NULL,
[Address] [varchar] (max) COLLATE SQL Latin1 General CP1 CI AS NULL,
[Age] [int] NULL,
[Email] [varchar] (100) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,
[Password] [varchar] (50) COLLATE SQL Latin1 General CP1 CI AS NOT NULL,
[Dept ID] [int] NULL
ON [PRIMARY]
GO
ALTER TABLE [dbo].[Student] ADD CONSTRAINT [S Age] CHECK (([Age]>=(21) AND
[Age] <= (28)))
ALTER TABLE [dbo].[Student] ADD CONSTRAINT [S_National] CHECK ((len([National_ID])=(14)
AND NOT [National ID] like '%[^0-9]%'))
GO
ALTER TABLE [dbo].[Student] ADD CONSTRAINT [PK Student] PRIMARY KEY CLUSTERED
([National ID]) ON [PRIMARY]
ALTER TABLE [dbo].[Student] ADD CONSTRAINT [FK_Student_Department] FOREIGN KEY ([Dept_-
ID]) REFERENCES [dbo].[Department] ([Dept_ID]) ON DELETE SET NULL ON UPDATE CASCADE
```

#### Uses

#### [dbo].[Department]

#### **Used By**

```
[dbo].[Stud_Course]
```

[dbo].[Stud\_Solve]

[dbo].[DeleteStudent]

[dbo].[insertIntoStud\_Solve]

[dbo].[insertIntoStudCourse]

[dbo].[insertIntoStudent]

[dbo].[R1\_StudentInfoINDept]

[dbo].[R2\_StudGradINCourses]

[dbo].[Select\_Student\_With\_Id]

[dbo].[SelectALLStudent]

[dbo].[UpdateStudAddress]

[dbo].[UpdateStudAge]

[dbo].[UpdateStudDepartment]

[dbo].[UpdateStudFname]

[dbo].[UpdateStudLname]

[dbo].[UpdateStudMail]

[dbo].[UpdateStudPass]

### [dbo].[Topic]

#### **Properties**

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	27
Created	11:07:27 PM Sunday, January 23, 2022
Last Modified	6:02:21 PM Monday, January 31, 2022

#### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability	Identity
PK2 C	T_ID	int	4	NOT NULL	1 - 1
ı.	T_Name	varchar(50)	50	NOT NULL	
FK	Crs_ID	int	4	NOT NULL	

#### Indexes

Key	Name	Key Columns	Unique
PK C	PK_Topic	T_ID	True
	UQTopicC3AF9CB7FE113720	T_Name	True

#### Foreign Keys

Name	Update	Columns
FK_Topic_Course	Cascade	Crs_ID->[dbo].[Course].[Crs_ID]

#### **SQL Script**

```
CREATE TABLE [dbo].[Topic]

(
[T_ID] [int] NOT NULL IDENTITY(1, 1),

[T_Name] [varchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL,

[Crs_ID] [int] NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Topic] ADD CONSTRAINT [PK_Topic] PRIMARY KEY CLUSTERED ([T_ID]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Topic] ADD CONSTRAINT [UQ_Topic_C3AF9CB7FE113720] UNIQUE
```

```
NONCLUSTERED ([T_Name]) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Topic] ADD CONSTRAINT [FK_Topic_Course] FOREIGN KEY ([Crs_ID])

REFERENCES [dbo].[Course] ([Crs_ID]) ON UPDATE CASCADE

GO
```

#### Uses

[dbo].[Course]

#### **Used By**

[dbo].[DeleteTopic]
[dbo].[insertIntoTopic]
[dbo].[R4\_TopicsINCourses]
[dbo].[SelectALLTopics]
[dbo].[UpdateTopicCourse]
[dbo].[UpdateTopicName]

### **■** Stored Procedures

#### Objects

Name
dbo.DeleteCourse
dbo.DeleteDepartment
dbo.DeleteExam
dbo.DeleteIns_Course_Teach
dbo.DeleteIns_Dept_Work
dbo.DeleteInstructor
dbo.DeleteQuestion
dbo.DeleteQuestionOnExam
dbo.DeleteStud_SolveExam
dbo.DeleteStud_SolveQuesInExam
dbo.DeleteStudent
dbo.DeleteStudFromCourse
dbo.DeleteTopic
dbo.Exam_Answers
dbo.Exam_Correction
dbo.FormateExam
dbo.generate_exam
dbo.insertIntoCourse
dbo.insertIntoDepartment
dbo.insertIntoExam
dbo.insertIntoExam_has_Ques
dbo.insertIntoIns_Course_Teach
dbo.insertIntoIns_Dept_Work
dbo.insertIntoInstructor
dbo.insertIntoQues_Choices
dbo.insertIntoQuesChoices
dbo.insertIntoQuestion
dbo.insertIntoStud_Solve
dbo.insertIntoStudCourse
dbo.insertIntoStudent
dbo.insertIntoTopic
dbo.Model_Answer
dbo.R1_StudentInfoINDept
dbo.R2_StudGradINCourses

dbo.R3_InsTeachCourse
dbo.R4_TopicsINCourses
dbo.R5_QuestionsINExam
dbo.R6_StudentSolve
dbo.Select_Department_With_Id
dbo.Select_Instructor_With_Id
dbo.Select_Student_With_ld
dbo.SelectAllCourse
dbo.SelectAllDepartment  dbo.SelectALLExam
dbo.SelectAllExamHasQues
dbo.SelectALLInsCourseTeach
dbo.SelectALLInsDeptWork
dbo.SelectAllInstructor
dbo.SelectAllQuesChoices
dbo.SelectAllQuesINExam
dbo.SelectAllQuestion
dbo.SelectALLStudCourse
dbo.SelectALLStudent
dbo.SelectAllStudSolve
dbo.SelectALLTopics
dbo.SelectExamData
dbo.SelectStudSolveWithID
dbo.UpdateChoice
dbo.UpdateCourseDuration
dbo.UpdateCourseInst
dbo.UpdateCourseName
dbo.UpdateDapartmentInstructor
dbo.UpdateDepartmentDescribe
dbo.UpdateDepartmentHiredate
dbo.UpdateDepartmentManager
dbo.UpdateDepartmentName
dbo.UpdateEvaluation
dbo.UpdateExamCourse
dbo.UpdateExamQuestion
dbo.UpdateInsAddress
dbo.UpdateInsBonus
dbo.UpdateInsHourlyrate
dbo.UpdateInsName
dbo.UpdateInsSalary
dbo.UpdateInstCourse

Project > . > User databases > Examination\_System > Programmability > Stored Procedures

dbo.UpdateModelanswer
dbo.UpdateQCourse
dbo.UpdateQGrade
dbo.UpdateQuestion
dbo.UpdateStudAddress
dbo.UpdateStudAge
dbo.UpdateStudDepartment
dbo.UpdateStudentQanswer
dbo.UpdateStudentQgrade
dbo.UpdateStudentTotalgrade
dbo.UpdateStudFname
dbo.UpdateStudLname
dbo.UpdateStudMail
dbo.UpdateStudPass
dbo.UpdateTopicCourse
dbo.UpdateTopicName

## [dbo].[DeleteCourse]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

#### Uses

[dbo].[Course]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.Delete-Department



#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

#### Uses

[dbo].[Department]

## [dbo].[DeleteExam]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

#### Uses

[dbo].[Exam]

## [dbo].[DeleteIns\_Course\_Teach]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@crs_id	int	4

#### **SQL Script**

#### Uses

[dbo].[Ins\_Course\_Teach]

## [dbo].[DeleteIns\_Dept\_Work]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@dept_id	int	4

#### **SQL Script**

#### Uses

[dbo].[Ins\_Dept\_Work]

### [dbo].[DeleteInstructor]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

#### Uses

[dbo].[Instructor]

### [dbo].[DeleteQuestion]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

#### Uses

[dbo].[Question]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.DeleteQuestion-OnExam

## [dbo].[DeleteQuestionOnExam]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

#### Uses

[dbo].[Exam\_has\_Ques]

## [dbo].[DeleteStud\_SolveExam]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@stud_id	varchar(14)	14
@exam_id	int	4

#### **SQL Script**

#### Uses

[dbo].[Stud\_Solve]

## [dbo].[DeleteStud\_SolveQuesInExam]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@stud_id	varchar(14)	14
@q_id	int	4
@exam_id	int	4

#### **SQL Script**

#### Uses

[dbo].[Stud\_Solve]

## [dbo].[DeleteStudent]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@stud_id	varchar(14)	14

#### **SQL Script**

#### Uses

[dbo].[Student]

## [dbo].[DeleteStudFromCourse]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@stud_id	varchar(14)	14
@crs_id	int	4

#### **SQL Script**

#### Uses

[dbo].[Stud\_Course]

### [dbo].[DeleteTopic]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

#### Uses

[dbo].[Topic]

# [dbo].[Exam\_Answers]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@stud_id	varchar(14)	14
@exam_id	int	4
@ans1	varchar(max)	max
@ans2	varchar(max)	max
@ans3	varchar(max)	max
@ans4	varchar(max)	max
@ans5	varchar(max)	max
@ans6	varchar(max)	max
@ans7	varchar(max)	max
@ans8	varchar(max)	max
@ans9	varchar(max)	max
@ans10	varchar(max)	max

#### **SQL Script**

```
CREATE procedure [dbo].[Exam_Answers]
(@stud_id varchar(14), @exam_id int,
@ans1 varchar(max), @ans2 varchar(max),
@ans3 varchar(max), @ans4 varchar(max),
@ans5 varchar(max), @ans6 varchar(max),
@ans7 varchar(max), @ans8 varchar(max),
@ans9 varchar(max), @ans10 varchar(max)
)
as

--answers table
declare @qans table(
id INT IDENTITY,
   ans varchar(max)
)
insert into @qans values (@ans1)
```

```
insert into @qans values (@ans2)
insert into @qans values (@ans3)
insert into @qans values (@ans4)
insert into @qans values (@ans5)
insert into @qans values (@ans6)
insert into @qans values (@ans7)
insert into @qans values (@ans8)
insert into @qans values (@ans9)
insert into @qans values (@ans10)
select * from @qans
--declare a cursor to iterate through IDs
declare c q id cursor
for select Q_ID from Exam_has_Ques where Exam_ID=@exam_id order bY Q_T
for read only
declare @qid int
declare @i int = 0
open c q id
fetch c q id into @qid
begin
--insert 10 answers into stud solve
while @i < 10
begin
while @@FETCH STATUS=0
begin
insert into Stud_Solve(Stud_ID,Q_ID,Exam_ID,Stud_Ans)
values(@stud_id,@qid,@exam_id,(
select ans
from (select ROW NUMBER() over(order by id) as r n , ans from @qans) t
where r n =@i +1
))
set @i=@i+1
fetch c q id into @qid
end
end
end
close c_q_id
deallocate c_q_id
GO
```

#### Uses

[dbo].[Exam\_has\_Ques] [dbo].[Stud\_Solve]

# [dbo].[Exam\_Correction]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@stud_id	varchar(14)	14
@exam_id	int	4

#### **SQL Script**

```
CREATE procedure [dbo].[Exam_Correction] (@stud_id varchar(14),@exam_id int)
begin
declare @crsid int;
select @crsid=Crs ID from Exam where Exam ID=@exam id
declare @std ans table(
 qid int,
 std ans varchar(max),
 model_ans varchar(max),
 qgrade int
insert into @std_ans
select s.Q ID, s.Stud ans ,q.Model Ans,q.Q Grade from Stud Solve s,Question q where s.Q -
ID=q.Q_ID
declare q_id cursor
for select qid from @std ans
for read only
/**/
declare @qid int
declare @i int = 0
```

```
open q id
fetch q_id into @qid
begin
--insert 10 answers into stud solve
declare @totalgrade int =0;
while @@FETCH STATUS=0 and @i<10
begin
declare @id int;
declare @sans varchar(5);
declare @mans varchar(5);
declare @grade int;
select @id=qid, @sans=std ans,@mans=model ans,@grade=qgrade
from( select ROW NUMBER() over(order by qid) as r n ,qid,std ans ,model ans,qgrade from
@std_ans) t
where r n = @i+1
if(@sans=@mans)
update Stud Solve set Ans Grade=@grade where Stud ID=@stud id and Q ID=@id and Exam -
ID=@exam id
set @totalgrade=@totalgrade+@grade
--select @id , @sans ,@mans,@grade
set @i=@i+1
fetch q_id into @qid
end
select @totalgrade
 update Stud Course set Total Grade-@totalgrade where Stud ID-@stud id and Crs -
{\tt ID=@crsid}
/****/
end
GO
```

#### Uses

[dbo].[Exam]
[dbo].[Question]
[dbo].[Stud\_Course]
[dbo].[Stud\_Solve]

# [dbo].[FormateExam]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
CREATE PROC [dbo].[FormateExam] ( @exid INT)
BEGIN
declare @ExamFormate table(
 id INT IDENTITY,
 qid int,
 ques varchar (MAX),
 qtype VARCHAR(50),
 q1 VARCHAR(50),
 q2 VARCHAR(50),
 q3 VARCHAR(50),
 q4 VARCHAR(50)
INSERT INTO @ExamFormate
   qid,
   ques,
   qtype
SELECT EQ.Q_ID , Q_Name ,Q.Q_Type
  FROM Exam has Ques EQ inner join Question Q on EQ.Q ID=Q.Q ID WHERE Exam ID=35
declare q id cursor
for select qid from @ExamFormate
for read ONLY
declare @qid int
```

```
declare @i int = 0
open q id
fetch q_id into @qid
BEGIN
while @@FETCH STATUS=0 and @i<10
BEGIN
declare @choice table(
 id INT,
 q1 VARCHAR(50)
INSERT INTO @choice
SELECT ROW NUMBER() OVER (ORDER BY Q Choices) , Q Choices FROM dbo.Ques Choices WHERE
Q_ID=0qid
DECLARE @q VARCHAR(50)
SELECT @q=q1 FROM @choice WHERE id=1
\label{eq:update} \mbox{\tt UPDATE @ExamFormate SET q1=@q WHERE qid=@qid}
SELECT @q=q1 FROM @choice WHERE id=2
UPDATE @ExamFormate SET q2=@q WHERE qid=@qid
SET @q =' '
SELECT @q=q1 FROM @choice WHERE id=3
UPDATE @ExamFormate SET q3=@q WHERE qid=@qid
SET @q =' '
SELECT @q=q1 FROM @choice WHERE id=4
UPDATE @ExamFormate SET q4=@q WHERE qid=@qid
SET @i=@i+1
fetch q id into @qid
DELETE FROM @choice
END
SELECT * FROM @ExamFormate
GO
```

#### Uses

[dbo].[Exam\_has\_Ques] [dbo].[Ques\_Choices] [dbo].[Question]

### [dbo].[generate\_exam]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@crs_name	varchar(50)	50
@N_TF	int	4
@N_MCQ	int	4

#### **SQL Script**

```
CREATE procedure [dbo].[generate exam] (@crs name varchar(50) , @N TF int ,@N MCQ int)
begin
   declare @beforeid int = IDENT_CURRENT('Exam');
   declare @cid int;
  insert into Exam
  select Crs ID from Course where Crs Name=@crs name;
  declare @afterid int = IDENT CURRENT('Exam');
  if (@afterid> @beforeid)
  select @cid=Crs_ID from Course where Crs_Name=@crs_name;
--execute generatemcq @N MCQ,@cid
  insert into Exam has Ques (Q ID, Exam ID, Q T)
 SELECT top(@N_MCQ)Q_ID ,IDENT_CURRENT('Exam'),Q_Type
  FROM Question
   where Q Type='MCQ' and Crs ID=@cid
   order by newid(),Q Type;
      insert into Exam has Ques (Q ID, Exam ID, Q T)
  SELECT top(@N_TF)Q_ID ,IDENT_CURRENT('Exam'),Q Type
   FROM Question
   where Q_Type='T/F' and Crs_ID=@cid
   order by newid(),Q_Type;
```

```
end
else
select 'course not found';
end
GO
```

#### Uses

[dbo].[Course]
[dbo].[Exam]
[dbo].[Exam\_has\_Ques]
[dbo].[Question]

# [dbo].[insertIntoCourse]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Crs_Name	varchar(50)	50
@duration	int	4

#### **SQL Script**

#### Uses

[dbo].[Course]

## [dbo].[insertIntoDepartment]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Dept_Name	varchar(50)	50
@Description	varchar(max)	max
@Ins_ID	int	4
@Hire_date	date	3

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoDepartment]
               @Dept_Name varchar(50),
               @Description varchar (MAX),
               @Ins_ID int,
               @Hire date date
as
begin
  declare @temp int = -1;
   select @temp = Ins_ID from Instructor
   where Ins_ID = @Ins_ID
   if @temp != -1
   begin
       insert into Department
       values(@Dept_Name, @Description, @Ins_ID, @Hire_date)
   end
   else
       select 'Instructor ID Not found' as Error
end
GO
```

#### Uses

[dbo].[Department]

Project > . > User databases > Examination_System > Programmability > Stored Procedures > dbo.insertInto- Department
[dbo].[Instructor]

### [dbo].[insertIntoExam]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoExam]
              @Crs ID int
as
begin
   declare @temp int = -1;
   select @temp = Crs ID from Course
   where Crs_ID = @Crs_ID
   if @temp != -1
  begin
      insert into Exam
       values(@Crs_ID)
   end
   else
       select 'Course ID Not found' as Error
end
GO
```

#### Uses

[dbo].[Course] [dbo].[Exam]

# [dbo].[insertIntoExam\_has\_Ques]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Exam_ID	int	4
@Q_ID	int	4
@Q_T	varchar(50)	50

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoExam has Ques]
              @Exam_ID int,
               @Q ID INT,
               @Q_T varchar(50)
as
begin
  declare @temp1 int = -1, @temp2 int = -1
  select @temp1 = Exam_ID from Exam
   where Exam ID = @Exam ID
   select @temp2 = Q_ID from Question
   where Q ID = @Q ID
   if @temp1 != -1 and <math>@temp2 != -1
   begin
       insert into Exam_has_Ques
       values(@Exam_ID, @Q_ID , @Q_T)
   end
   else
       select 'Exam ID or Question ID Not found' as Error
end
GO
```

#### Uses

[dbo].[Exam]

 $\label{lem:project} {\tt Project > . > User \ databases > Examination\_System > Programmability > Stored \ Procedures > dbo.insertInto-Exam\_has\_Ques}$ 

[dbo].[Exam\_has\_Ques] [dbo].[Question]

# [dbo].[insertIntoIns\_Course\_Teach]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Ins_ID	int	4
@Crs_ID	int	4
@Evaluation	tinyint	1

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoIns Course Teach]
               @Ins_ID int,
               @Crs ID int,
               @Evaluation tinyint
as
begin
   declare @temp1 int = -1, @temp2 int = -1
   select @temp1 = Ins_ID from Instructor
   where Ins ID = @Ins ID
   select @temp2 = Crs_ID from Course
   where Crs ID = @Crs ID
   if @temp1 != -1 and <math>@temp2 != -1
   begin
       insert into Ins_Course_Teach
       values(@Ins_ID, @Crs_ID, @Evaluation)
   end
   else
       select 'Instructor ID or Course ID Not found' as Error
end
GO
```

#### Uses

[dbo].[Course]

 $\label{lem:project} \mbox{Project} > . > \mbox{User databases} > \mbox{Examination\_System} > \mbox{Programmability} > \mbox{Stored Procedures} > \mbox{dbo.insertIntoIns\_-Course\_Teach}$ 

[dbo].[Ins\_Course\_Teach] [dbo].[Instructor]

## [dbo].[insertIntoIns\_Dept\_Work]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Ins_ID	int	4
@Dept_ID	int	4

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoIns_Dept_Work]
              @Ins_ID int,
               @Dept ID int
as
begin
   declare @temp1 int = -1, @temp2 int = -1
   select @temp1 = Ins ID from Instructor
   where Ins_ID = @Ins_ID
   select @temp2 = Dept ID from Department
   where Dept ID = @Dept ID
   if @temp1 != -1 and @temp2 != -1
       insert into Ins_Dept_Work
       values(@Ins ID, @Dept ID)
   end
       select 'Instructor ID or Department ID Not Found' as Error
end
GO
```

#### Uses

[dbo].[Department]
[dbo].[Ins\_Dept\_Work]
[dbo].[Instructor]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.insertInto-

# [dbo].[insertIntoInstructor]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Ins_Name	varchar(50)	50
@Salary	float	8
@Hourly_Rate	float	8
@Bonus	float	8
@Address	varchar(50)	50

#### **SQL Script**

#### Uses

[dbo].[Instructor]

# [dbo].[insertIntoQues\_Choices]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Ques_ID	int	4
@Ques_choices	varchar(50)	50

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoQues_Choices]
              @Ques_ID int,
               @Ques choices varchar(50)
as
begin
   declare @temp int = -1;
   select @temp = Q_ID from Question
  where Q_ID = @Ques_ID
   if @temp != -1
   begin
      insert into Ques Choices
       values(@Ques_ID, @Ques_choices)
   end
       select 'Question ID Not found' as Error
end
GO
```

#### Uses

[dbo].[Ques\_Choices] [dbo].[Question] Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.insertIntoQues-Choices

# [dbo].[insertIntoQuesChoices]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Ques_choices	varchar(50)	50

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoQuesChoices]
(
@Ques_choices varchar(50)
)
as
begin
DECLARE @lastid INT =IDENT_CURRENT('Question');
insert into Ques_Choices
values(@lastid, @Ques_choices)
END
GO
```

#### Uses

[dbo].[Ques\_Choices]

# [dbo].[insertIntoQuestion]

#### **Properties**

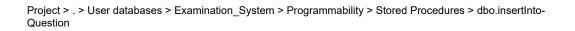
Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Q_Name	varchar(max)	max
@Model_Ans	varchar(5)	5
@Q_grade	int	4
@Q_type	varchar(50)	50
@Crs_ID	int	4

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoQuestion]
               @Q_Name varchar(MAX),
               @Model Ans varchar(5),
               @Q_grade int,
               @Q_type varchar(50),
               @Crs_ID int
as
begin
   declare @temp int = -1;
   select @temp = Crs_ID from Course
   where Crs ID = @Crs ID
   if @temp != -1
       insert into Question
       values(@Q_Name, @Model_Ans, @Q_grade, @Q_type, @Crs_ID)
   end
       select 'Course ID Not found' as Error
end
GO
```



Uses

[dbo].[Course] [dbo].[Question]

## [dbo].[insertIntoStud\_Solve]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Stud_ID	varchar(14)	14
@Q_ID	int	4
@Exam_ID	int	4
@Stud_Ans	varchar(5)	5
@Ans_grade	int	4

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoStud Solve]
               @Stud ID varchar(14),
               @Q ID int,
               @Exam_ID int,
               @Stud Ans varchar(5),
               @Ans_grade int
as
begin
   declare @temp1 varchar(14) = ' ', @temp2 int = -1, @temp3 int = -1
   select @temp1 = National_ID from Student
   where National ID = @Stud ID
   select @temp2 = Q_ID from Question
   where Q ID = @Q ID
   select @temp3 = Exam_ID from Exam
   where Exam ID = @Exam ID
   if @temp1 != ' ' and @temp2 != -1 and @temp3 != -1
       insert into Stud Solve
       values(@Stud_ID, @Q_ID, @Exam_ID, @Stud_Ans, @Ans_grade)
   end
   else
       select 'National ID of Student or Question ID or Exam ID Not found' as Error
```

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.insertIntoStud\_-

GO

#### Uses

[dbo].[Exam]
[dbo].[Question]
[dbo].[Stud\_Solve]
[dbo].[Student]

## [dbo].[insertIntoStudCourse]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Stud_ID	varchar(14)	14
@Crs_ID	int	4
@Total_Grade	int	4

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoStudCourse]
               @Stud_ID varchar(14),
               @Crs ID int,
               @Total_Grade int
as
begin
  declare @temp1 varchar(14) = ' ', @temp2 int = -1
   select @temp1 = National_ID from Student
   where National ID = @Stud ID
   select @temp2 = Crs ID from Course
   where Crs ID = @Crs ID
   if @temp1 != ' ' and @temp2 != -1
   begin
       insert into Stud_Course
       values(@Stud_ID, @Crs_ID, @Total_Grade)
   end
   else
       select 'Student ID or Course ID Not found' as Error
end
GO
```

#### Uses

[dbo].[Course]

 $\label{thm:project} {\tt Project > . > User \ databases > Examination\_System > Programmability > Stored \ Procedures > dbo.insertIntoStud-Course}$ 

[dbo].[Stud\_Course] [dbo].[Student]

# [dbo].[insertIntoStudent]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Stud_ID	varchar(14)	14
@Stud_FName	varchar(50)	50
@Stud_LName	varchar(50)	50
@Address	varchar(max)	max
@Age	int	4
@Email	varchar(100)	100
@Password	varchar(50)	50
@Dept_ID	int	4

#### **SQL Script**

```
CREATE procedure [dbo].[insertIntoStudent]
               @Stud ID varchar(14),
               @Stud_FName varchar(50),
               @Stud LName varchar(50),
               @Address varchar(MAX),
               @Age int,
               @Email varchar(100),
               @Password varchar(50),
               @Dept ID int
as
  declare @oldID int = -1
   select @oldID = Dept_ID from Department
   where Dept_ID = @Dept_ID
   if @oldID != -1
       begin
           insert into Student
           values(@Stud_ID, @Stud_FName, @Stud_LName, @Address, @Age, @Email,
@Password, @Dept_ID)
       end
```

### Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.insertInto-Student

```
else
select 'This Department Not found' as Error
end
GO
```

#### Uses

[dbo].[Department] [dbo].[Student]

### [dbo].[insertIntoTopic]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@T_Name	varchar(50)	50
@Crs_ID	int	4

#### **SQL Script**

#### Uses

[dbo].[Course] [dbo].[Topic]

# [dbo].[Model\_Answer]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
CREATE proc [dbo].[Model_Answer] (@examid int)

AS

BEGIN

select Q_Name ,Model_Ans

FROM Question where Q_ID in

(select Q_ID from Exam_has_Ques where Exam_ID = @examid)

END

GO
```

#### Uses

[dbo].[Exam\_has\_Ques] [dbo].[Question]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.R1\_StudentInfo-INDept

## [dbo].[R1\_StudentInfoINDept]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
CREATE PROCEDURE [dbo].[R1_StudentInfoINDept]

@Dept_Id int

AS

BEGIN

SELECT *

FROM Student

where Dept_ID=@Dept_Id

END

GO
```

#### Uses

[dbo].[Student]

## [dbo].[R2\_StudGradINCourses]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@stud_ID	varchar(14)	14

#### **SQL Script**

```
CREATE PROCEDURE [dbo].[R2_StudGradInCourses]

@stud_ID varchar(14)

As

BEGIN

SELECT [National_ID],

[F_Name] + ' ' + [L_Name] AS [Full Name]

,Stud_Course.Crs_ID

,course.Crs_Name

,Total_Grade As Course_Grade

FROM Student inner join Stud_Course on Student.National_ID=Stud_Course.Stud_ID inner join Course on Course.Crs_ID=Stud_Course.Crs_ID

where Student.National_ID=@stud_ID

END

GO
```

#### Uses

[dbo].[Course] [dbo].[Stud\_Course] [dbo].[Student]

## [dbo].[R3\_InsTeachCourse]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
CREATE PROCEDURE [dbo].[R3_InsTeachCourse]
@Ins_Id int

As
BEGIN
SELECT Instructor.Ins_ID
,[Crs_Name]
,count(Stud_Id) As StudentNo

FROM Course inner join Ins_Course_Teach on Course.Crs_ID=Ins_Course_Teach.Crs_ID inner join Instructor
    on Ins_Course_Teach.Ins_ID=Instructor.Ins_ID inner join Stud_Course on Stud_-Course.Crs_ID=Course.Crs_ID
    where Instructor.Ins_ID=@Ins_Id
    group by Instructor.Ins_ID,[Crs_Name]

END
GO
```

#### Uses

```
[dbo].[Course]
[dbo].[Ins_Course_Teach]
[dbo].[Instructor]
[dbo].[Stud_Course]
```

# [dbo].[R4\_TopicsINCourses]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
CREATE proc [dbo].[R4_TopicsINCourses] (@Crs_ID int)

as

begin

select c.Crs_ID, c.Crs_Name, T_Name

from Topic t, Course c

where c.Crs_ID = t.Crs_ID and c.Crs_ID = @Crs_ID

end

GO
```

#### Uses

[dbo].[Course] [dbo].[Topic]

## [dbo].[R5\_QuestionsINExam]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
CREATE proc [dbo].[R5_QuestionsINExam]

@Ex_Id int

AS

BEGIN

SELECT Exam_ID, Crs_ID, Q_Name, Q.Q_Type, Q_Choices

FROM Exam_has_Ques EQ inner join Ques_Choices Qc on EQ.Q_ID=Qc.Q_ID inner

join Question Q on Qc.Q_ID=Q.Q_ID

where Exam_ID=@Ex_Id

END

GO
```

#### Uses

[dbo].[Exam\_has\_Ques] [dbo].[Ques\_Choices] [dbo].[Question]

## [dbo].[R6\_StudentSolve]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Exam_ID	int	4
@Stud_ID	varchar(14)	14

#### **SQL Script**

```
create proc [dbo].[R6_StudentSolve] (@Exam_ID int, @Stud_ID varchar(14))
as
begin
    select Exam_ID, Stud_ID, Q_Name ,Stud_Ans
    from Stud_Solve sv, Question q
    where sv.Q_ID = q.Q_ID and Stud_ID = @Stud_ID and Exam_ID = @Exam_ID
end
GO
```

#### Uses

[dbo].[Question] [dbo].[Stud\_Solve]

# [dbo].[Select\_Department\_With\_Id]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
---SP with ID

Create PROCEDURE [dbo].[Select_Department_With_Id]

@dept_ID int

AS

BEGIN

SELECT *

FROM Department

where Dept_ID=@dept_ID

END

GO
```

#### Uses

[dbo].[Department]

# [dbo].[Select\_Instructor\_With\_Id]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
---SP with ID

Create PROCEDURE [dbo].[Select_Instructor_With_Id]
@Ins_Id int

As

BEGIN

SELECT *
FROM Instructor
where Ins_ID=@Ins_Id

END

GO
```

#### Uses

[dbo].[Instructor]

# [dbo].[Select\_Student\_With\_Id]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

Name	Data Type	Max Length (Bytes)
@Stud_ld	varchar(14)	14

#### **SQL Script**

```
---SP with ID

Create PROCEDURE [dbo].[Select_Student_With_Id]
@Stud_Id varchar(14)

AS

BEGIN

SELECT *
FROM Student
where National_ID=@Stud_Id

END
GO
```

#### Uses

[dbo].[Student]

### [dbo].[SelectAllCourse]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

```
****/
/*
Create PROCEDURE Select_Ins_Dept_With_Id
@Ins Id int
BEGIN
   SELECT Instructor.Ins ID
        ,Ins Name
         ,Salary
         ,Hourly Rate
         ,Bouns
         ,[Address]
         ,Dept_Id
   FROM Instructor inner join Ins_Dept_Work on Instructor.Ins_ID=Ins_Dept_Work.Ins_-
ID
   where Instructor. Ins ID=@Ins Id
END
GO*/
--->5<---
CREATE PROCEDURE [dbo].[SelectAllCourse]
   AS
BEGIN
  SELECT *
  FROM Course
END
```

#### Uses

[dbo].[Course]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.SelectAll-Department



#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

#### Uses

[dbo].[Department]

### [dbo].[SelectALLExam]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

```
*******
/*
Alter PROCEDURE Select Stud Course ID ST
 @stud ID varchar(14)
BEGIN
   SELECT [National ID],
   [F Name] + ' ' + [L Name] AS [Full Name]
      ,Stud_Course.Crs_ID
     ,[Total_Grade]
FROM Student inner join Stud_Course on Student.National_ID=Stud_Course.Stud_ID inner join Course on Course.Crs_ID=Stud_Course.Crs_ID
    where Student.National ID=@stud ID
END
GO
EXEC Select Stud Course ID ST @stud ID=N'111 111 111 111 11'
GO*/
_____
--->9<---
Create PROCEDURE [dbo].[SelectALLExam]
    As
BEGIN
  SELECT * FROM Exam
END
GO
```

#### Uses

[dbo].[Exam]

## [dbo].[SelectAllExamHasQues]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

```
---->12<----
--Create PROCEDURE SelectStoredProcedure Stud Exam Ans
-- @StAns Id int
-- As
--BEGIN
-- SELECT Stud Solve.Stud ID
   ,Stud_Solve.[Q_ID]
-- ,Stud_Solve.[Exam_ID]
-- ,Stud_Solve.[Stud_Ans]
-- ,Stud_Solve.[Ans_Grade],
       Exam.Crs ID
-- , Question.Q_Name
-- ,Question.Q_Type
    ,Question.Q_Grade
-- , Question.Model_Ans
       from Stud_Solve inner join Exam on Stud_Solve.Exam_ID=Exam.Exam_ID inner join
Question on Question.Q_ID=Stud_Solve.Q_ID
-- where Stud_Solve.Stud_ID=@StAns_Id
--END
--EXEC SelectStoredProcedure Stud Exam Ans @St Ans Id=N'1'
--GO
--->13<---
---->Exam_has_Ques
CREATE PROCEDURE [dbo].[SelectAllExamHasQues]
```

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.SelectAllExam-HasQues

```
BEGIN

SELECT *

FROM Exam_has_Ques

END

GO
```

Uses

[dbo].[Exam\_has\_Ques]

## [dbo].[SelectALLInsCourseTeach]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

```
---SP with ID
Create PROCEDURE Select_Course_With_Id
@crs Id int
BEGIN
 SELECT *
  FROM Course
  where Crs_ID=@crs_Id
END
GO
EXEC Select_Course_With_Id N'1'
--->Ins_Course_Teach
CREATE PROCEDURE [dbo].[SelectALLInsCourseTeach]
  AS
BEGIN
 SELECT*
  FROM Ins Course Teach
END
```

#### Uses

[dbo].[Ins\_Course\_Teach]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.SelectALLIns-DeptWork

## [dbo].[SelectALLInsDeptWork]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

#### Uses

[dbo].[Ins\_Dept\_Work]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.SelectAll-Instructor



#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

#### Uses

[dbo].[Instructor]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.SelectAllQues-Choices

## [dbo].[SelectAllQuesChoices]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

#### Uses

[dbo].[Ques\_Choices]

## [dbo].[SelectAllQuesINExam]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **Parameters**

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

#### **SQL Script**

```
---->10<----
---->Course-->Exam-->Question-->Choices
----->the same SP like Last One ===> for Ques data
Create PROCEDURE [dbo].[SelectAllQuesINExam]
 @Ex Id int
   As
BEGIN
   SELECT
   Exam.Crs ID
   ,Exam_has_Ques.*
    ,Question.Q_Name
    ,Question.Q_Type
    ,Question.Q_Grade
    ,Question.Model Ans
    ,Ques_Choices.Q_Choices
   FROM Exam inner join Exam_has_Ques on Exam_ID=Exam_has_Ques.Exam_ID inner join
Question on Question.Q ID=Exam has Ques.Q ID inner join Ques Choices on Ques Choices.Q -
{\tt ID=Question.Q\_ID}
   where Exam.Exam ID=@Ex Id
END
GO
```

 $\label{thm:project} {\tt Project > . > User \ databases > Examination\_System > Programmability > Stored \ Procedures > dbo. Select All QuestINExam}$ 

#### Uses

[dbo].[Exam]
[dbo].[Exam\_has\_Ques]
[dbo].[Ques\_Choices]
[dbo].[Question]

# [dbo].[SelectAllQuestion]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

#### Uses

[dbo].[Question]

### [dbo].[SelectALLStudCourse]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

```
---SP with ID
Create PROCEDURE Select_Topic_With_Id
@T_Id int
BEGIN
 SELECT*
 FROM Topic
 where T ID=@T Id
END
GO
EXEC Select_Topic_With_Id @T_Id=N'1'
*************/
--->8<----
---->Stud_Course
CREATE PROCEDURE [dbo].[SelectALLStudCourse]
 AS
BEGIN
 SELECT *
 FROM Stud Course
END
```

#### Uses

[dbo].[Stud\_Course]

# [dbo].[SelectALLStudent]

#### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

#### **SQL Script**

```
--->1-->Student
CREATE PROCEDURE [dbo].[SelectALLStudent]
AS
BEGIN
SELECT *
FROM Student
END
GO
```

#### Uses

[dbo].[Student]

## [dbo].[SelectAllStudSolve]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **SQL Script**

```
---->11<----
----> Stud_Solve

CREATE PROCEDURE [dbo].[SelectAllStudSolve]

AS
BEGIN
SELECT*
FROM Stud_Solve

END
GO
```

### Uses

[dbo].[Stud\_Solve]

## [dbo].[SelectALLTopics]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **SQL Script**

```
/***********************
Create PROCEDURE Select Ins Course Teach With Id
 @Ins_Id int
  As
BEGIN
  SELECT Instructor.Ins ID
    ,Course.Crs ID
    ,[Crs Name]
    ,[Duration]
    ,Evaluation
  FROM Course inner join Ins Course Teach on Course.Crs ID=Ins Course Teach.Crs ID
inner join Instructor on Ins Course Teach. Ins ID=Instructor. Ins ID
  where Instructor. Ins ID=@Ins Id
END
GO
EXEC Select_Ins_Course_Teach_With_Id @Ins_Id=N'1'
GO*/
_____
---->7<---
--->Topic
CREATE PROCEDURE [dbo].[SelectALLTopics]
  AS
BEGIN
  SELECT *
  FROM Topic
END
GO
```

Project > . > User databases > Examination_System > Programmability > Stored Procedures > dbo.Select-ALLTopics		
Uses		

[dbo].[Topic]

## [dbo].[SelectExamData]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

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

### **SQL Script**

```
----- SP for Exam Data
CREATE PROCEDURE [dbo].[SelectExamData]
@Ex_Id int
   AS
BEGIN
   SELECT Exam_ID
           ,Crs_ID
          ,Q_Name
          ,Question.Q_Type
        ,Q Choices
          ,Question.Q_Grade
          ,Model_Ans
             FROM Exam_has_Ques inner join Ques_Choices on Exam_has_Ques.Q_ID=Ques_-
Choices.Q_ID inner join Question on Ques_Choices.Q_ID=Question.Q_ID
           where Exam_ID=@Ex_Id
END
GO
```

### Uses

[dbo].[Exam\_has\_Ques] [dbo].[Ques\_Choices] [dbo].[Question]

## [dbo].[SelectStudSolveWithID]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

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

### **SQL Script**

### Uses

[dbo].[Stud\_Solve]

## [dbo].[UpdateChoice]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@qid	int	4
@choice	varchar(50)	50

### **SQL Script**

```
/*****************************
--update a choice for a question
create proc [dbo].[UpdateChoice](@qid int , @choice varchar(50))
as
update Ques_Choices
set Q_Choices=@choice
where Q_ID=@qid
GO
```

### Uses

[dbo].[Ques\_Choices]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateCourse-Duration

## [dbo].[UpdateCourseDuration]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@old_id	int	4
@new_crs_duration	int	4

### **SQL Script**

### Uses

[dbo].[Course]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateCourse-Inst

## [dbo].[UpdateCourseInst]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@crs_id	int	4

### **SQL Script**

### Uses

[dbo].[Ins\_Course\_Teach]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateCourse-Name

## [dbo].[UpdateCourseName]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@old_id	int	4
@new_crs_name	varchar(50)	50

### **SQL Script**

```
--update course_name
create proc [dbo].[UpdateCourseName](@old_id int, @new_crs_name varchar(50))
as
update course
set crs_name=@new_crs_name
where crs_id=@old_id

GO
```

### Uses

[dbo].[Course]

## [dbo].[UpdateDapartmentInstructor]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@department	int	4

### **SQL Script**

### Uses

[dbo].[Ins\_Dept\_Work]

## [dbo].[UpdateDepartmentDescribe]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

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

### **SQL Script**

### Uses

## [dbo].[UpdateDepartmentHiredate]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@id	int	4
@new_date	date	3

### **SQL Script**

### Uses

## [dbo].[UpdateDepartmentManager]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

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

### **SQL Script**

### Uses

## [dbo].[UpdateDepartmentName]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@id	int	4
@new_name	varchar(50)	50

### **SQL Script**

#### Uses

## [dbo].[UpdateEvaluation]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@crs_id	int	4
@eval	tinyint	1

### **SQL Script**

### Uses

[dbo].[Ins\_Course\_Teach]

## [dbo].[UpdateExamCourse]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

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

### **SQL Script**

### Uses

[dbo].[Exam]

## [dbo].[UpdateExamQuestion]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

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

### **SQL Script**

### Uses

[dbo].[Exam\_has\_Ques]

## [dbo].[UpdateInsAddress]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@ins_address	varchar(50)	50

### **SQL Script**

### Uses

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateIns-Bonus

[dbo].[UpdateInsBonus]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@ins_bonus	float	8

### **SQL Script**

### Uses

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateIns-Hourlyrate

## [dbo].[UpdateInsHourlyrate]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@ins_hourlyrate	float	8

### **SQL Script**

### Uses

## [dbo].[UpdateInsName]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@ins_name	varchar(50)	50

### **SQL Script**

### Uses

## [dbo].[UpdateInsSalary]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@ins_salary	float	8

### **SQL Script**

```
/*******************************
--update instructor salary
create proc [dbo].[UpdateInsSalary](@ins_id int , @ins_salary float)
as
update instructor
set salary=@ins_salary
where Ins_ID=@ins_id
GO
```

### Uses

## [dbo].[UpdateInstCourse]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@crs_id	int	4

### **SQL Script**

### Uses

[dbo].[Ins\_Course\_Teach]

## [dbo].[UpdateModelanswer]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@qid	int	4
@ans	varchar(5)	5

### **SQL Script**

```
/*************************
--update question model answer
create proc [dbo].[UpdateModelanswer](@qid int , @ans varchar(5))
as
update question
set Model_Ans=@ans
where Q_ID=@qid
GO
```

### Uses

## [dbo].[UpdateQCourse]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@qid	int	4
@crs	int	4

### **SQL Script**

### Uses

### [dbo].[UpdateQGrade]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@qid	int	4
@grade	int	4

### **SQL Script**

### Uses

## [dbo].[UpdateQuestion]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@qid	int	4
@q	varchar(max)	max

### **SQL Script**

```
/***********************
--update question
create proc [dbo].[UpdateQuestion](@qid int , @q varchar(max))
as
update question
set Q_Name=@q
where Q_ID=@qid
GO
```

### Uses

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateStud-Address

## [dbo].[UpdateStudAddress]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@id	varchar(14)	14
@address	varchar(50)	50

### **SQL Script**

### Uses

## [dbo].[UpdateStudAge]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@id	varchar(14)	14
@age	int	4

### **SQL Script**

### Uses

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateStud-Department

## [dbo].[UpdateStudDepartment]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@id	varchar(14)	14
@department	int	4

### **SQL Script**

### Uses

## [dbo].[UpdateStudentQanswer]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@stud_id	varchar(14)	14
@q_id	int	4
@exam	int	4
@answer	varchar(5)	5

### **SQL Script**

### Uses

[dbo].[Stud\_Solve]

## [dbo].[UpdateStudentQgrade]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@stud_id	varchar(14)	14
@q_id	int	4
@exam	int	4
@grade	int	4

### **SQL Script**

### Uses

[dbo].[Stud\_Solve]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateStudent-Totalgrade

### [dbo].[UpdateStudentTotalgrade]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@stud_id	varchar(14)	14
@crs_id	int	4
@grade	int	4

### **SQL Script**

### Uses

[dbo].[Stud\_Course]

## [dbo].[UpdateStudFname]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@id	varchar(14)	14
@fname	varchar(50)	50

### **SQL Script**

### Uses

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateStud-

## [dbo].[UpdateStudLname]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@id	varchar(14)	14
@Iname	varchar(50)	50

### **SQL Script**

### Uses

## [dbo].[UpdateStudMail]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@id	varchar(14)	14
@mail	varchar(100)	100

### **SQL Script**

### Uses

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateStud-

## [dbo].[UpdateStudPass]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@id	varchar(14)	14
@password	varchar(50)	50

### **SQL Script**

### Uses

## [dbo].[UpdateTopicCourse]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@topic_id	int	4
@topic_crs	int	4

### **SQL Script**

#### Uses

[dbo].[Topic]

Project > . > User databases > Examination\_System > Programmability > Stored Procedures > dbo.UpdateTopic-Name

## [dbo].[UpdateTopicName]

### **Properties**

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### **Parameters**

Name	Data Type	Max Length (Bytes)
@topic_id	int	4
@topic_name	int	4

### **SQL Script**

### Uses

[dbo].[Topic]



Objects

Name	
dbo	
guest	



### **Properties**

Property	Value
Туре	SqlUser
Login Name	sa
Default Schema	dbo

### **Database Level Permissions**

Туре	Action
CONNECT	Grant

### **SQL Script**

GO



### **Properties**

Property	Value
Туре	SqlUser
Default Schema	guest

### **SQL Script**

GO			

### La Database Roles

### Objects

Name
db_accessadmin
db_backupoperator
db_datareader
db_datawriter
db_ddladmin
db_denydatareader
db_denydatawriter
db_owner
db_securityadmin
public

### ♣ db\_accessadmin

### **Properties**

Property	Value
Owner	dbo

### db\_backupoperator

### **Properties**

Property	Value
Owner	dbo

### db\_datareader

### **Properties**

Property	Value
Owner	dbo

### db\_datawriter

### **Properties**

Property	Value
Owner	dbo

### db\_ddladmin

### **Properties**

Property	Value
Owner	dbo

### db\_denydatareader

### **Properties**

Property	Value
Owner	dbo

### db\_denydatawriter

### **Properties**

Property	Value
Owner	dbo

### ♣ db\_owner

### **Properties**

Property	Value
Owner	dbo

### ♣ db\_securityadmin

### **Properties**

Property	Value
Owner	dbo

# public public

### **Properties**

Property	Value
Owner	dbo