





































# . Documentation




























## Examination System



Server	.
Author	Mostafa Khairy
Created	10/30/2022
File Path	C:\Users\DELL\Desktop\examination system DataBase-2022-10-30T09-58-31.pdf


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## Databases (1)

-  Examination System

## Server Properties

Property	Value
Product	Microsoft SQL Server
Version	14.0.2042.3
Language	English (United States)
Platform	NT x64
Edition	Developer Edition (64-bit)
Engine Edition	3 (Enterprise)
Processors	12
OS Version	6.3 (19044)
Physical Memory	16228
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

## Examination System Database

### Database Properties

Property	Value
SQL Server Version	SQL Server 2017
Compatibility Level	SQL Server 2017
Last backup time	10/30/2022
Last log backup time	-
Creation date	Oct 29 2022
Users	4
Database Encryption Enabled	False
Database Encryption Algorithm	None
Database size	16.00 MB
Unallocated space	3.43 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	039ffe3e-3c99-4a56-b929-015707e05ef5
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-O4872J7\DELL

## Files

Name	Type	Size	Maxsize	Autogrowth	File Name
Examination System	Data	8.00 MB	unlimited	64.00 MB	C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\DATA\Examination System.mdf
Examination System_log	Log	8.00 MB	2048.00 GB	64.00 MB	C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER



					ER\MSSQL\DATA\Examination System_log.ldf
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## **Tables**

### Objects

---



Name
dbo.Choices
dbo.Course
dbo.Department
dbo.Exam
dbo.Exam_Question
dbo.Ins_course
dbo.Instructor
dbo.Question
dbo.Stud_Course
dbo.Student
dbo.Student_Exam
dbo.Topic

## [dbo].[Choices]

### Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	380
Created	4:49:08 PM Friday, October 21, 2022
Last Modified	8:25:35 PM Saturday, October 22, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	Q_ID	int	4	NOT NULL
	Choice	nvarchar(255)	510	NOT NULL

### Indexes

Key	Name	Key Columns	Unique
	PK_Choices	Q_ID, Choice	True

### Foreign Keys

Name	Columns
FK_Choices_Question	Q_ID->[dbo].[Question].[Q_ID]

### SQL Script

```
CREATE TABLE [dbo].[Choices]
(
    [Q_ID] [int] NOT NULL,
    [Choice] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Choices] ADD CONSTRAINT [PK_Choices] PRIMARY KEY CLUSTERED ([Q_ID],
[Choice]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Choices] ADD CONSTRAINT [FK_Choices_Question] FOREIGN KEY ([Q_ID])
REFERENCES [dbo].[Question] ([Q_ID])
GO
```

## Uses

---

[dbo].[Question]

## Used By

---

[dbo].[Delete\_Question]

[dbo].[Exam\_for\_Course]



[dbo].[insert\_Question]

## [dbo].[Course]

### Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	8
Created	8:22:39 PM Saturday, October 22, 2022
Last Modified	11:50:58 PM Saturday, October 29, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	Crs_id	int	4	NOT NULL
	Crs_Name	nvarchar(50)	100	NULL allowed
	Crs_Duration	int	4	NULL allowed
	Top_id	int	4	NULL allowed

### Indexes

Key	Name	Key Columns	Unique
	PK_Course	Crs_id	True

### Foreign Keys

Name	Columns
FK_Course_Topic	Top_id->[dbo].[Topic].[Top_id]

### SQL Script

```
CREATE TABLE [dbo].[Course]
(
    [Crs_id] [int] NOT NULL,
    [Crs_Name] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
    [Crs_Duration] [int] NULL,
    [Top_id] [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 [FK_Course_Topic] FOREIGN KEY ([Top_id])  
REFERENCES [dbo].[Topic] ([Top_id])  
GO
```

## Uses

---

[dbo].[Topic]

## Used By

---


[dbo].[Exam]  
[dbo].[Ins\_course]  
[dbo].[Question]  
[dbo].[Stud\_Course]  
[dbo].[All\_St\_Grade]  
[dbo].[All\_St\_Grade\_byEmail]  
[dbo].[Exam\_by\_CrsName]  
[dbo].[Exam\_for\_Course]  
[dbo].[Generat\_Exam]  
[dbo].[Grade\_by\_Stid\_Crs]  
[dbo].[Ins\_Crs\_#St]  
[dbo].[insert\_Question]  
[dbo].[TopicForCrs]

## [dbo].[Department]

### Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	5
Created	8:22:21 PM Saturday, October 22, 2022
Last Modified	8:25:48 PM Saturday, October 22, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	Dept_id	int	4	NOT NULL
	Dept_Name	nvarchar(50)	100	NOT NULL

### Indexes

Key	Name	Key Columns	Unique
	PK_Department	Dept_id	True

### SQL Script

```
CREATE TABLE [dbo].[Department]
(
    [Dept_id] [int] NOT NULL,
    [Dept_Name] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Department] ADD CONSTRAINT [PK_Department] PRIMARY KEY CLUSTERED
([Dept_id]) ON [PRIMARY]
GO
```

### Used By



[dbo].[Instructor]  
[dbo].[Student]  
[dbo].[all\_St\_in\_Dep#]  
[dbo].[Delete\_Department]  
[dbo].[Insert\_department]

## [dbo].[Exam]

### Properties

Property	Value
Row Count (~)	10
Created	8:23:51 PM Saturday, October 22, 2022
Last Modified	8:23:51 PM Saturday, October 22, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	Ex_id	int	4	NOT NULL
	No_TF	int	4	NULL allowed
	No_MCQ	int	4	NULL allowed
	Crs_id	int	4	NULL allowed

### Indexes

Key	Name	Key Columns	Unique
	PK_Exam	Ex_id	True

### Foreign Keys

Name	Columns
FK_Exam_Course	Crs_id->[dbo].[Course].[Crs_id]

### SQL Script

```
CREATE TABLE [dbo].[Exam]
(
    [Ex_id] [int] NOT NULL,
    [No_TF] [int] NULL,
    [No_MCQ] [int] NULL,
    [Crs_id] [int] NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Exam] ADD CONSTRAINT [PK_Exam] PRIMARY KEY CLUSTERED ([Ex_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Exam] ADD CONSTRAINT [FK_Exam_Course] FOREIGN KEY ([Crs_id])
```



```
REFERENCES [dbo].[Course] ([Crs_id])  
GO
```

## Uses

---

[dbo].[Course]

## Used By

---



[dbo].[Exam\_Question]  
[dbo].[Student\_Exam]  
[dbo].[Exam\_by\_CrsName]  
[dbo].[Exam\_corr]  
[dbo].[Exam\_for\_Course]  
[dbo].[Exam\_Questions]  
[dbo].[Exam\_St\_answer]  
[dbo].[Generat\_Exam]

## [dbo].[Exam\_Question]

### Properties

Property	Value
Row Count (~)	64
Created	7:06:23 PM Tuesday, October 18, 2022
Last Modified	8:25:35 PM Saturday, October 22, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	Ex_id	int	4	NOT NULL
	Ques_id	int	4	NOT NULL

### Indexes

Key	Name	Key Columns	Unique
	PK_Exam_Question	Ex_id, Ques_id	True

### Foreign Keys

Name	Columns
FK_Exam_Question_Exam	Ex_id->[dbo].[Exam].[Ex_id]
FK_Exam_Question_Question	Ques_id->[dbo].[Question].[Q_ID]

### SQL Script

```
CREATE TABLE [dbo].[Exam_Question]
(
    [Ex_id] [int] NOT NULL,
    [Ques_id] [int] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Exam_Question] ADD CONSTRAINT [PK_Exam_Question] PRIMARY KEY
CLUSTERED ([Ex_id], [Ques_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Exam_Question] ADD CONSTRAINT [FK_Exam_Question_Exam] FOREIGN KEY
([Ex_id]) REFERENCES [dbo].[Exam] ([Ex_id])
GO
```

```
ALTER TABLE [dbo].[Exam_Question] ADD CONSTRAINT [FK_Exam_Question_Question] FOREIGN  
KEY ([Ques_id]) REFERENCES [dbo].[Question] ([Q_ID])  
GO
```

## Uses

---

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

## Used By

---



[dbo].[Exam\_for\_Course]  
[dbo].[Exam\_Questions]  
[dbo].[Generat\_Exam]

## [dbo].[Ins\_course]

### Properties

Property	Value
Row Count (~)	23
Created	11:03:10 PM Friday, October 21, 2022
Last Modified	8:25:48 PM Saturday, October 22, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	Ins_id	int	4	NOT NULL
	Crs_id	int	4	NOT NULL

### Indexes

Key	Name	Key Columns	Unique
	PK_Ins_course	Ins_id, Crs_id	True

### Foreign Keys

Name	Columns
FK_Ins_Course_Course	Crs_id->[dbo].[Course].[Crs_id]
FK_Ins_Course_Instructor	Ins_id->[dbo].[Instructor].[Ins_id]

### SQL Script

```
CREATE TABLE [dbo].[Ins_course]
(
    [Ins_id] [int] NOT NULL,
    [Crs_id] [int] NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Ins_course] ADD CONSTRAINT [PK_Ins_course] PRIMARY KEY CLUSTERED
([Ins_id], [Crs_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Ins_course] ADD CONSTRAINT [FK_Ins_Course_Course] FOREIGN KEY
([Crs_id]) REFERENCES [dbo].[Course] ([Crs_id])
GO
```

```
ALTER TABLE [dbo].[Ins_course] ADD CONSTRAINT [FK_Ins_Course_Instructor] FOREIGN KEY  
([Ins_id]) REFERENCES [dbo].[Instructor] ([Ins_id])  
GO
```

## Uses

---

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

## Used By

---



[dbo].[Ins\_Crs\_#St]  
[dbo].[insert\_ins\_Crs]

## [dbo].[Instructor]


### Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	22
Created	8:25:48 PM Saturday, October 22, 2022
Last Modified	8:25:48 PM Saturday, October 22, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	Ins_id	int	4	NOT NULL
	Ins_FName	nvarchar(50)	100	NULL allowed
	Ins_LName	nvarchar(50)	100	NULL allowed
	Ins_Phone	int	4	NULL allowed
	Ins_Email	nvarchar(50)	100	NULL allowed
	Ins_Address	nvarchar(50)	100	NULL allowed
	Dept_id	int	4	NULL allowed
	Ins_Password	int	4	NULL allowed
	Ins_Age	int	4	NULL allowed

### Indexes

Key	Name	Key Columns	Unique
	PK_Instructor	Ins_id	True

### Foreign Keys

Name	Columns
FK_Instructor_Department	Dept_id->[dbo].[Department].[Dept_id]

### SQL Script

```
CREATE TABLE [dbo].[Instructor]
(
    [Ins_id] [int] NOT NULL,
    [Ins_FName] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
```

```

[Ins_LName] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Ins_Phone] [int] NULL,
[Ins_Email] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Ins_Address] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[Dept_id] [int] NULL,
[Ins_Password] [int] NULL,
[Ins_Age] [int] NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Instructor] ADD CONSTRAINT [PK_Instructor] PRIMARY KEY CLUSTERED
([Ins_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Instructor] ADD CONSTRAINT [FK_Instructor_Department] FOREIGN KEY
([Dept_id]) REFERENCES [dbo].[Department] ([Dept_id])
GO

```

## Uses

---

[dbo].[Department]

## Used By

---



[dbo].[Ins\_course]  
[dbo].[All\_Ins\_Data]  
[dbo].[Ins\_Crs\_#St]  
[dbo].[Insert\_ins]  
[dbo].[Instructor\_Login]  
[dbo].[update\_instructor]

## [dbo].[Question]

### Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	117
Created	8:25:34 PM Saturday, October 22, 2022
Last Modified	6:59:16 PM Sunday, October 23, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	Q_ID	int	4	NOT NULL
	Question_Body	nvarchar(max)	max	NULL allowed
	Q_Type	nvarchar(50)	100	NULL allowed
	Model_Answer	nvarchar(max)	max	NULL allowed
	Point	int	4	NULL allowed
	Crs_ID	int	4	NULL allowed

### Indexes

Key	Name	Key Columns	Unique
	PK_Question	Q_ID	True

### Foreign Keys

Name	Columns
FK_Question_Course	Crs_ID->[dbo].[Course].[Crs_id]

### SQL Script

```
CREATE TABLE [dbo].[Question]
(
    [Q_ID] [int] NOT NULL,
    [Question_Body] [nvarchar] (max) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
    [Q_Type] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
    [Model_Answer] [nvarchar] (max) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
    [Point] [int] NULL,
    [Crs_ID] [int] NULL
)
```



```
) ON [PRIMARY]
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])
GO
```

---

## Uses

[dbo].[Course]

---

## Used By



[dbo].[Choices]  
[dbo].[Exam\_Question]  
[dbo].[Student\_Exam]  
[dbo].[Delete\_Question]  
[dbo].[Exam\_corr]  
[dbo].[Exam\_for\_Course]  
[dbo].[Exam\_Questions]  
[dbo].[Generat\_Exam]  
[dbo].[insert\_Question]  
[dbo].[St\_Exam\_Q]  
[dbo].[update\_Question]

## [dbo].[Stud\_Course]

### Properties

Property	Value
Row Count (~)	73
Created	11:50:58 PM Saturday, October 29, 2022
Last Modified	11:50:58 PM Saturday, October 29, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	St_id	int	4	NOT NULL
	Crs_id	int	4	NOT NULL
	Crs_Grade	int	4	NULL allowed

### Indexes

Key	Name	Key Columns	Unique
	PK_Stud_Course	St_id, Crs_id	True

### Foreign Keys

Name	Columns
FK_Stud_Course_Course	Crs_id->[dbo].[Course].[Crs_id]
FK_Stud_Course_Student	St_id->[dbo].[Student].[St_id]

### SQL Script

```
CREATE TABLE [dbo].[Stud_Course]
(
    [St_id] [int] NOT NULL,
    [Crs_id] [int] NOT NULL,
    [Crs_Grade] [int] NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Stud_Course] ADD CONSTRAINT [PK_Stud_Course] PRIMARY KEY CLUSTERED
([St_id], [Crs_id]) ON [PRIMARY]
GO
```

```
ALTER TABLE [dbo].[Stud_Course] ADD CONSTRAINT [FK_Stud_Course_Course] FOREIGN KEY
([Crs_id]) REFERENCES [dbo].[Course] ([Crs_id])
GO
ALTER TABLE [dbo].[Stud_Course] ADD CONSTRAINT [FK_Stud_Course_Student] FOREIGN KEY
([St_id]) REFERENCES [dbo].[Student] ([St_id])
GO
```

## Uses

---

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

## Used By

---



[dbo].[All\_St\_Grade]  
[dbo].[All\_St\_Grade\_byEmail]  
[dbo].[Delete\_St\_Crs]  
[dbo].[Exam\_corr]  
[dbo].[Grade\_by\_Stid\_Crs]  
[dbo].[Ins\_Crs\_#St]  
[dbo].[insert\_St\_Crs]

## [dbo].[Student]

### Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	113
Created	8:25:02 PM Saturday, October 22, 2022
Last Modified	11:50:58 PM Saturday, October 29, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	St_id	int	4	NOT NULL
	St_FName	nvarchar(50)	100	NULL allowed
	St_LName	nvarchar(50)	100	NULL allowed
	St_Email	nvarchar(50)	100	NULL allowed
	St_Address	nvarchar(50)	100	NULL allowed
	St_Age	int	4	NULL allowed
	St_Phone	int	4	NULL allowed
	Dept_id	int	4	NULL allowed
	St_Gender	nvarchar(50)	100	NULL allowed
	St_Password	int	4	NULL allowed
	St_DOB	date	3	NULL allowed

### Indexes

Key	Name	Key Columns	Unique
	PK_Student	St_id	True

### Foreign Keys

Name	Columns
FK_Student_Department	Dept_id->[dbo].[Department].[Dept_id]

### SQL Script

```
CREATE TABLE [dbo].[Student]
```

```

(
[St_id] [int] NOT NULL,
[St_FName] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[St_LName] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[St_Email] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[St_Address] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[St_Age] [int] NULL,
[St_Phone] [int] NULL,
[Dept_id] [int] NULL,
[St_Gender] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL,
[St_Password] [int] NULL,
[St_DOB] [date] NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Student] ADD CONSTRAINT [PK_Student] PRIMARY KEY CLUSTERED ([St_id])
ON [PRIMARY]
GO
ALTER TABLE [dbo].[Student] ADD CONSTRAINT [FK_Student_Department] FOREIGN KEY
([Dept_id]) REFERENCES [dbo].[Department] ([Dept_id])
GO

```

## Uses

---

[dbo].[Department]

## Used By

---







[dbo].[Stud\_Course]  
[dbo].[Student\_Exam]  
[dbo].[All\_St\_Data]  
[dbo].[All\_St\_Data\_byEmail]  
[dbo].[All\_St\_Grade]  
[dbo].[All\_St\_Grade\_byEmail]  
[dbo].[all\_St\_in\_Dep#]  
[dbo].[Exam\_St\_answer]  
[dbo].[Insert\_St]  
[dbo].[Student\_Login]  
[dbo].[update\_Student]

## [dbo].[Student\_Exam]


### Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	12
Created	7:10:13 PM Tuesday, October 18, 2022
Last Modified	8:25:35 PM Saturday, October 22, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
 	St_id	int	4	NOT NULL
 	Ex_id	int	4	NOT NULL
 	Ques_id	int	4	NOT NULL
	Grade	int	4	NULL allowed
	Date	date	3	NULL allowed
	Time	time	5	NULL allowed
	St_Answer	nvarchar(max)	max	NULL allowed

### Indexes

Key	Name	Key Columns	Unique
	PK_Student_Exam	St_id, Ex_id, Ques_id	True

### Foreign Keys

Name	Columns
FK_Student_Exam_Exam	Ex_id->[dbo].[Exam].[Ex_id]
FK_Student_Exam_Question	Ques_id->[dbo].[Question].[Q_ID]
FK_Student_Exam_Student	St_id->[dbo].[Student].[St_id]

### SQL Script

```
CREATE TABLE [dbo].[Student_Exam]
```

```

(
[St_id] [int] NOT NULL,
[Ex_id] [int] NOT NULL,
[Ques_id] [int] NOT NULL,
[Grade] [int] NULL,
[Date] [date] NULL,
[Time] [time] NULL,
[St_Answer] [nvarchar] (max) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Student_Exam] ADD CONSTRAINT [PK_Student_Exam] PRIMARY KEY CLUSTERED
([St_id], [Ex_id], [Ques_id]) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Student_Exam] ADD CONSTRAINT [FK_Student_Exam_Exam] FOREIGN KEY
([Ex_id]) REFERENCES [dbo].[Exam] ([Ex_id])
GO
ALTER TABLE [dbo].[Student_Exam] ADD CONSTRAINT [FK_Student_Exam_Question] FOREIGN KEY
([Ques_id]) REFERENCES [dbo].[Question] ([Q_ID])
GO
ALTER TABLE [dbo].[Student_Exam] ADD CONSTRAINT [FK_Student_Exam_Student] FOREIGN KEY
([St_id]) REFERENCES [dbo].[Student] ([St_id])
GO

```

## Uses

---

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

## Used By

---


[dbo].[Exam\_corr]  
[dbo].[Exam\_St\_answer]  
[dbo].[St\_Exam\_Q]

## [dbo].[Topic]

### Properties

Property	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Row Count (~)	5
Created	8:24:15 PM Saturday, October 22, 2022
Last Modified	8:24:15 PM Saturday, October 22, 2022

### Columns

Key	Name	Data Type	Max Length (Bytes)	Nullability
	Top_id	int	4	NOT NULL
	Top_Name	nvarchar(50)	100	NULL allowed

### Indexes

Key	Name	Key Columns	Unique
	PK_Topic	Top_id	True

### SQL Script

```
CREATE TABLE [dbo].[Topic]
(
    [Top_id] [int] NOT NULL,
    [Top_Name] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Topic] ADD CONSTRAINT [PK_Topic] PRIMARY KEY CLUSTERED ([Top_id]) ON [PRIMARY]
GO
```

### Used By

[dbo].[Course]  
[dbo].[Insert\_topic]  
[dbo].[TopicForCrS]  
[dbo].[update\_Topic]



## **Stored Procedures**

### Objects

Name
dbo.All_Ins_Data
dbo.All_St_Data
dbo.All_St_Data_byEmail
dbo.All_St_Grade
dbo.All_St_Grade_byEmail
dbo.all_St_in_Dep#
dbo.Delete_Department
dbo.Delete_Question
dbo.Delete_St_Crs
dbo.Exam_by_CrsName
dbo.Exam_corr
dbo.Exam_for_Course
dbo.Exam_Questions
dbo.Exam_St_answer
dbo.Generat_Exam
dbo.Grade_by_Stid_Crs
dbo.Ins_Crs_#St
dbo.Insert_department
dbo.Insert_ins
dbo.insert_ins_Crs
dbo.insert_Question
dbo.Insert_St
dbo.insert_St_Crs
dbo.Insert_topic
dbo.Instructor_Login
dbo.St_Exam_Q
dbo.Student_Login
dbo.TopicForCrs
dbo.update_instructor
dbo.update_Question
dbo.update_Student
dbo.update_Topic

## [dbo].[All\_Ins\_Data]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@Ins_Email	nvarchar(max)	max

### SQL Script

```
CREATE PROC [dbo].[All_Ins_Data] @Ins_Email NVARCHAR(MAX)
AS
BEGIN
    IF EXISTS(SELECT Ins_Email FROM dbo.Instructor WHERE Ins_Email = @Ins_Email)
    BEGIN
        SELECT * FROM dbo.Instructor
        WHERE Ins_Email = @Ins_Email
    END
    ELSE
        SELECT 'this Instructor does not exist'
END
GO
```

### Uses

[dbo].[Instructor]

## [dbo].[All\_St\_Data]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@St_Email	nvarchar(max)	max

### SQL Script

```
CREATE proc [dbo].[All_St_Data] @St_Email nvarchar(max)
as
begin
    if exists(select St_Email from Student where St_Email = @St_Email)
        begin
            select * from Student
            where St_Email = @St_Email
        end
    else
        select 'this Student does not exist'
end
GO
```

### Uses

[dbo].[Student]

## [dbo].[All\_St\_Data\_byEmail]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@St_email	nvarchar(50)	100

### SQL Script

```
CREATE proc [dbo].[All_St_Data_byEmail] @St_email nvarchar(50)
as
begin
    if exists(select St_Email from Student where St_Email = @St_Email)
        begin
            select * from Student
            where St_Email = @St_Email
        end
    else
        select 'this Student does not exist'
end
GO
```

### Uses

[dbo].[Student]

## [dbo].[All\_St\_Grade]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

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

### SQL Script

```
CREATE proc [dbo].[All_St_Grade] @St_id int
as
begin
    if exists(select St_id from Student where St_id = @St_id)
        begin
            select sc.St_id , s.St_FName, s.St_Lname ,c.Crs_Name ,sc.Crs_Grade from
Stud_Course sc ,
            Student s ,Course c where sc.St_id = s.St_id and c.Crs_id = sc.Crs_id and
sc.St_id = @St_id
        end
    else
        select 'this Student does not exist'
    end
end
GO
```

### Uses

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

## [dbo].[All\_St\_Grade\_byEmail]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters


Name	Data Type	Max Length (Bytes)
@St_Email	nvarchar(50)	100

### SQL Script

```
CREATE proc [dbo].[All_St_Grade_byEmail] @St_Email nvarchar(50)
as
begin
    if exists(select St_Email from Student where St_Email = @St_Email)
        begin
            select sc.St_id , s.St_FName, s.St_Lname ,c.Crs_Name ,sc.Crs_Grade from
Stud_Course sc ,
            Student s ,Course c where sc.St_id = s.St_id and c.Crs_id = sc.Crs_id and
s.St_Email = @St_Email
        end
    else
        select 'this Student does not exist'
    end
end
GO
```

### Uses

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

 [dbo].[all\_St\_in\_Dep#]

## Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

## Parameters

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

## SQL Script

```
create proc [dbo].[all_St_in_Dep#] @Dep_id int
as
begin
    if exists(select Dept_id from Department where Dept_id = @Dep_id)
        begin
            select * from Student where Dept_id = @Dep_id
        end
    else
        select 'this department does not exist'
end
GO
```

## Uses

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

## [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

```
create proc [dbo].[Delete_Department] @Dept_Id int
as
begin try
    if exists(select Dept_id from Department where Dept_id = @Dept_Id )
        begin
            delete from Department
            where Dept_id = @Dept_Id
        end
    else
        select 'this Department doe not exist'
end try
begin catch
    select ERROR_MESSAGE()
end catch
GO
```

### Uses

[dbo].[Department]



## [dbo].[Delete\_Question]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

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

### SQL Script

```
create proc [dbo].[Delete_Question] @Q_Id int
as
begin try
    if exists(select Q_ID from Question where Q_ID = @Q_Id )
        begin
            delete from Choices
            where Q_ID = @Q_Id

            delete from Question
            where Q_ID = @Q_Id
        end
    else
        select 'this Question doe not exist'
end try
begin catch
    select ERROR_MESSAGE()
end catch
GO
```

### Uses

[dbo].[Choices]  
[dbo].[Question]

## [dbo].[Delete\_St\_Crs]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@St_Id	int	4
@Crs_id	int	4

### SQL Script

```
CREATE proc [dbo].[Delete_St_Crs] @St_Id int , @Crs_id int
as
begin try
    if exists(select St_id , Crs_id from Stud_Course where St_id = @St_Id and Crs_id
=@Crs_id)
        begin
            delete from Stud_Course
            where St_id = @St_Id and Crs_id =@Crs_id
        end
    else
        select 'this course & this student doe not exist'
end try
begin catch
    select 'error'
end catch
GO
```

### Uses

[dbo].[Stud\_Course]

## [dbo].[Exam\_by\_CrsName]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

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

### SQL Script

```
CREATE PROC [dbo].[Exam_by_CrsName] @Crs_name VARCHAR(50)
AS
BEGIN
    IF EXISTS(SELECT Crs_Name FROM dbo.Course WHERE Crs_Name = @Crs_name)
    BEGIN
        DECLARE @Crs_id int = (SELECT Crs_id FROM Course WHERE Crs_
Name=@Crs_name)

        SELECT TOP(1) [Ex_id]
        FROM dbo.Exam
        WHERE Crs_id = @Crs_id

    END
    ELSE
        SELECT 'this Exam does not exist'
END
GO
```

### Uses

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

## [dbo].[Exam\_corr]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@St_id	int	4
@Ex_id	int	4

### SQL Script

```
CREATE proc [dbo].[Exam_corr] @St_id int , @Ex_id int
as
begin
    declare @No_Q int = (select count(Ques_id) from Student_Exam WHERE St_id = @St_id
and Ex_id = @Ex_id )

    declare @Right_Q float = (select count(s.Ques_id) from Student_Exam s join Question
q on s.Ques_id=q.Q_ID
where s.St_id = 1 and s.Ex_id = 1 and s.St_Answer = q.Model_Answer )

    declare @Grade float
    select @Grade = (@Right_Q/@No_Q) *100

    update Stud_Course
    set [Crs_Grade] = ( str(@Grade) + '%' )
    where St_id= @St_id and Crs_id = (select Crs_id from Exam where Ex_id = @Ex_id)

end
GO
```

### Uses

[dbo].[Exam]  
[dbo].[Question]  
[dbo].[Stud\_Course]  
[dbo].[Student\_Exam]

## [dbo].[Exam\_for\_Course]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@Crs_name	nvarchar(50)	100

### SQL Script

```
CREATE PROC [dbo].[Exam_for_Course] @Crs_name NVARCHAR(50)
AS
BEGIN
    IF EXISTS(SELECT Crs_Name FROM Course WHERE Crs_Name = @Crs_name)
    BEGIN
        DECLARE @Crs_id INT = (SELECT Crs_id FROM dbo.Course WHERE Crs_Name =
@Crs_name )
        DECLARE @Ex_id INT = (SELECT TOP(1) Ex_id FROM dbo.Exam WHERE Crs_id =
@Crs_id )

        SELECT q.Q_ID , e.Ex_id , q.Question_Bady , q.Q_Type , q.Point , q.Model_
Answer , c.Choice
        FROM Question q , Exam_Question eq , Exam e , dbo.Choices c

        WHERE q.Q_ID = eq.Ques_id AND e.Ex_id = eq.Ex_id AND q.Q_ID =
c.Q_ID
            AND e.Crs_id = @Crs_id AND e.Ex_id = @Ex_id

    END
    ELSE
        SELECT 'this Exam does not exist'
END
GO
```

### Uses

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

[dbo].[Exam\_Question]  
[dbo].[Question]

## [dbo].[Exam\_Questions]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

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

### SQL Script

```
create proc [dbo].[Exam_Questions] @Ex_id int
as
begin
    if exists(select Ex_id from Exam where Ex_id = @Ex_id)
        begin
            select q.Question_Bady from Question q , Exam_Question eq where q.Q_ID =
eq.Ques_id and Ex_id = @Ex_id
        end
    else
        select 'this Exam does not exist'
    end
end
GO
```

### Uses

[dbo].[Exam]  
[dbo].[Exam\_Question]  
[dbo].[Question]

## [dbo].[Exam\_St\_answer]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@St_id	int	4
@Ex_id	int	4
@Q_id	int	4
@St_Answer	varchar(50)	50

### SQL Script

```
CREATE PROC [dbo].[Exam_St_answer] @St_id INT , @Ex_id INT , @Q_id INT , @St_Answer
VARCHAR(50)
AS
BEGIN
    IF EXISTS (SELECT St_id FROM Student WHERE St_id = @St_id)
        BEGIN
            IF EXISTS(SELECT Ex_id FROM Exam WHERE Ex_id=@Ex_id)
                BEGIN

                    INSERT INTO Student_Exam ([St_id],[Ex_id],[Ques_id],[Date],[St_-
Answer])
                        VALUES (@St_id , @Ex_id , @Q_id , GETDATE() , @St_Answer )
                END
            ELSE
                SELECT 'this Exam does not exist'
        END
    ELSE
        SELECT 'this student ID does not exist'
END
GO
```

### Uses

[dbo].[Exam]



[dbo].[Student]  
[dbo].[Student\_Exam]

## [dbo].[Generat\_Exam]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@Exam_id	int	4
@Course_name	nvarchar(50)	100
@No_TF	int	4
@No_MCQ	int	4

### SQL Script

```
CREATE proc [dbo].[Generat_Exam] @Exam_id int , @Course_name nvarchar(50) , @No_TF int
, @No_MCQ int
as
begin
    if exists(select Ex_id from Exam where Ex_id = @Exam_id)
        select 'this exam id already exast '
    else
        begin
            if exists (select Crs_Name from Course where Crs_Name = @Course_name)
                begin
                    declare @Crs_id int = (select Crs_id from Course where Crs_Name =
@Course_name)

                    insert into Exam ([Ex_id],[No_TF],[No_MCQ],[Crs_id])
                    values (@Exam_id , @No_TF , @No_MCQ , @Crs_id )

                    insert into Exam_Question (Ex_id , Ques_id )
                    select top(@No_TF) @Exam_id , Q_id
                    from Question
                    where Q_Type = 'TF' and Crs_ID = @Crs_id
                    order by newid()

                    insert into Exam_Question (Ex_id , Ques_id )
                    select top(@No_MCQ) @Exam_id , Q_id
                    from Question
                    where Q_Type = 'MCQ' and Crs_ID = @Crs_id
                    order by newid()
```

```
        end
    else
        select 'this course is not exist'
    end
end
GO
```

## Uses

---

[dbo].[Course]  
[dbo].[Exam]  
[dbo].[Exam\_Question]  
[dbo].[Question]

## [dbo].[Grade\_by\_Stid\_Crs]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@St_id	int	4
@Crs_name	nvarchar(50)	100

### SQL Script

```
CREATE PROC [dbo].[Grade_by_Stid_Crs] @St_id INT , @Crs_name NVARCHAR(50)
AS
BEGIN
    DECLARE @Crs_id INT = (SELECT Crs_id FROM dbo.Course WHERE Crs_Name = @Crs_name )

    SELECT Crs_Grade FROM dbo.Stud_Course WHERE Crs_id = @Crs_id AND St_id = @St_id

END
GO
```

### Uses

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

## [dbo].[Ins\_Crs\_#St]

### 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 proc [dbo].[Ins_Crs_#St] @ins_id int
as
begin
    if exists(select Ins_id from Instructor where Ins_id = @ins_id)
        begin
            select c.Crs_Name , COUNT(sc.St_id) NumberOfSt from Course c , Stud_Course
            sc , Ins_course ic
            where C.Crs_id = SC.Crs_id
            and c.Crs_id=ic.Crs_id and Ins_id = @ins_id
            group by c.Crs_Name
        end
    else
        select 'this instructor does not exist'
end
GO
```

### Uses

[dbo].[Course]  
[dbo].[Ins\_course]  
[dbo].[Instructor]  
[dbo].[Stud\_Course]

## [dbo].[Insert\_department]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@dept_id	int	4
@dept_Name	nvarchar(50)	100

### SQL Script

```
create proc [dbo].[Insert_department] @dept_id int , @dept_Name nvarchar(50)
as
begin
    if not exists (select dept_id from Department where dept_id = @dept_id )
    begin
        insert into Department([dept_id],[dept_Name])
        values (@dept_id , @dept_Name)
    end
    else
        select 'this Department already exists'
    end
end
GO
```

### Uses

[dbo].[Department]

## [dbo].[Insert\_ins]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@id	int	4
@fname	nvarchar(50)	100
@lname	nvarchar(50)	100
@dept_id	int	4
@email	nvarchar(50)	100
@password	int	4

### SQL Script

```
CREATE proc [dbo].[Insert_ins] @id int , @fname nvarchar(50) , @lname nvarchar(50) ,
@dept_id int ,@email nvarchar(50) , @password int
as
    begin try
        insert into Instructor ([Ins_id],[Ins_FName],[Ins_LName],[Dept_id],[Ins_
Email],[Ins_Password])
            values (@id , @fname , @lname , @dept_id , @email , @password)
    end try
    begin catch
        select 'error'
    end catch
GO
```

### Uses

[dbo].[Instructor]

## [dbo].[insert\_ins\_Crs]

### 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

```
create proc [dbo].[insert_ins_Crs] @ins_Id int , @Crs_id int
as
begin try
    if exists(select ins_id , Crs_id from Ins_course where ins_id = @ins_Id and Crs_id
=@Crs_id)
        begin
            select 'this course is already assigned to this instructor '
        end
    else
        insert into ins_Course (ins_id , Crs_id)
        values(@ins_Id , @Crs_id)
end try
begin catch
    select 'error'
end catch
GO
```

### Uses

[dbo].[Ins\_course]



## [dbo].[insert\_Question]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@Q_id	int	4
@Q_Type	nvarchar(50)	100
@Q_body	nvarchar(max)	max
@Crs_id	int	4
@Model_Answer	nvarchar(max)	max
@choice_1	nvarchar(max)	max
@choice_2	nvarchar(max)	max
@choice_3	nvarchar(max)	max
@choice_4	nvarchar(max)	max

### SQL Script

```
CREATE proc [dbo].[insert_Question] @Q_id int ,@Q_Type nvarchar(50) , @Q_body
nvarchar(max) ,
@Crs_id int , @Model_Answer nvarchar(max) , @choice_1 nvarchar(max), @choice_2
nvarchar(max), @choice_3 nvarchar(max),@choice_4 nvarchar(max)

as
begin
    if exists (select Crs_id from Course where Crs_id = @Crs_id )
        begin
            if not exists (select Q_ID from Question where Q_ID = @Q_id)
                begin
                    insert into Question ([Q_ID],[Question_Body],[Q_Type] , [Model_-
Answer],[Crs_ID])
                    values(@Q_id , @Q_body ,@Q_Type , @Model_Answer , @Crs_id )

                    if @Q_Type = 'TF'
                        begin
                            insert into Choices ([Q_ID],[Choice])
                            values (@Q_id,@choice_1),(@Q_id,@choice_2)
                        end
                end
            end
        end
```

```

        else
            begin
                insert into Choices ([Q_ID],[Choice])
                values
                (@Q_id,@choice_1), (@Q_id,@choice_2), (@Q_id,@choice_3), (@Q_id,@choice_4)
            end
        end
    else
        select 'this Question id already exist'
    end
else
    select 'this course doen not exist'
end
GO

```

## Uses

---

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

## [dbo].[Insert\_St]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@id	int	4
@fname	nvarchar(50)	100
@lname	nvarchar(50)	100
@dept_id	int	4
@email	nvarchar(50)	100
@password	int	4

### SQL Script

```
CREATE proc [dbo].[Insert_St] @id int , @fname nvarchar(50) , @lname nvarchar(50) ,
@dept_id int ,@email nvarchar(50) , @password int
as
    begin try
        insert into Student ([St_id],[St_FName],[St_LName],[Dept_id],[St_Email],[St_
Password])
            values (@id , @fname , @lname , @dept_id ,@email, @password)
    end try
    begin catch
        select 'error'
    end catch
GO
```

### Uses

[dbo].[Student]

## [dbo].[insert\_St\_Crs]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@St_Id	int	4
@Crs_id	int	4

### SQL Script

```
create proc [dbo].[insert_St_Crs] @St_Id int , @Crs_id int
as
begin try
    if exists(select St_id , Crs_id from Stud_Course where St_id = @St_Id and Crs_id
=@Crs_id)
        begin
            select 'this course is already assigned to this student '
        end
    else
        insert into Stud_Course (St_id , Crs_id)
        values(@St_Id , @Crs_id)
end try
begin catch
    select 'error'
end catch
GO
```

### Uses

[dbo].[Stud\_Course]

## [dbo].[Insert\_topic]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@Topic_id	int	4
@Topic_Name	nvarchar(50)	100

### SQL Script

```
CREATE proc [dbo].[Insert_topic] @Topic_id int , @Topic_Name nvarchar(50)
as
begin
    if not exists (select Top_id from Topic where Top_id = @Topic_id )
    begin
        insert into topic ([Top_id],[Top_Name])
        values (@Topic_id , @Topic_Name)
    end
    else
        select 'this topic already exists'
    end
end
GO
```

### Uses

[dbo].[Topic]

## [dbo].[Instructor\_Login]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@Email	nvarchar(max)	max
@Pass	int	4

### SQL Script

```
create proc [dbo].[Instructor_Login] @Email nvarchar(max) , @Pass int
as
    if exists ( select Ins_Email , Ins_Password from Instructor where Ins_Email =
@Email and Ins_Password = @Pass )
        begin
            select 1
        end
    else
        select 0
GO
```

### Uses

[dbo].[Instructor]

## [dbo].[St\_Exam\_Q]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@Ex_id	int	4
@St_id	int	4

### SQL Script

```
CREATE proc [dbo].[St_Exam_Q] @Ex_id int , @St_id int
as
begin
    if exists(select Ex_id , St_id from Student_Exam where Ex_id = @Ex_id and
St_id=@St_id )
        begin
            select q.Question_Bady , Se.St_Answer from Student_Exam se , Question q
where q.Q_ID = se.Ques_id
            and Ex_id = @Ex_id and St_id = @St_id
        end
    else
        select 'Error'
end
GO
```

### Uses

[dbo].[Question]  
[dbo].[Student\_Exam]

## [dbo].[Student\_Login]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@Email	nvarchar(max)	max
@Pass	int	4

### SQL Script

```
create proc [dbo].[Student_Login] @Email nvarchar(max) , @Pass int
as
    if exists ( select St_Email , St_Password from Student where St_Email = @Email and
St_Password = @Pass )
        begin
            select 1
        end
    else
        select 0
GO
```

### Uses

[dbo].[Student]



## [dbo].[TopicForCrs]

### 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].[TopicForCrs] @Crs_id int
as
begin
    if exists(select Crs_id from Course where Crs_id = @Crs_id)
        begin
            select Top_Name from Topic t , Course c where t.Top_id = c.Top_id and
Crs_id = @Crs_id
        end
    else
        select 'this Course does not exist'
end
GO
```

### Uses

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

## [dbo].[update\_instructor]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@ins_id	int	4
@ins_Fname	nvarchar(50)	100
@ins_Lname	nvarchar(50)	100
@ins_Email	varchar(100)	100
@ins_password	int	4
@dept_id	int	4
@ins_Address	nvarchar(50)	100

### SQL Script

```
create Proc [dbo].[update_instructor] @ins_id int , @ins_Fname nvarchar(50) , @ins_Lname nvarchar(50) , @ins_Email varchar(100), @ins_password int , @dept_id int , @ins_Address nvarchar(50)
as
begin try
    if exists (select Ins_id from Instructor where Ins_id = @ins_id )
    begin
        update Instructor
        set Ins_FName = @ins_Fname , ins_Lname = @ins_Lname , ins_Email = @ins_Email
        , ins_Password = @ins_password , dept_id = @dept_id , ins_Address = @ins_Address
        where ins_id = @ins_id
    end
    else
        select 'Instructor Id is not found'
end try
begin catch
    Select ERROR_MESSAGE()
end catch
GO
```

## Uses

---

[dbo].[Instructor]

## [dbo].[update\_Question]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@Q_Id	int	4
@Q_Bady	nvarchar(max)	max
@Q_Type	nvarchar(20)	40
@Model_Ans	nvarchar(250)	500
@Point	int	4
@Crs_ID	int	4

### SQL Script

```
CREATE Proc [dbo].[update_Question] @Q_Id int , @Q_Bady nvarchar(max) , @Q_Type
nvarchar(20) ,
@Model_Ans nvarchar(250) , @Point int , @Crs_ID int
as
begin try
    if exists (select Q_ID from Question where Q_ID = @Q_Id )
        begin
            update Question
            set [Q_Type] = @Q_Type , [Question_Bady] = @Q_Bady , [Model_Answer] =
@Model_Ans ,
                [Point] = @Point, [Crs_ID] = @Crs_ID
            where Q_ID = @Q_Id
        end
    else
        select 'Question ID Not Found'
    end try
begin catch
    Select ERROR_MESSAGE()
end catch
GO
```

## Uses

---

[dbo].[Question]

## [dbo].[update\_Student]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@st_id	int	4
@st_Fname	nvarchar(50)	100
@st_Lname	nvarchar(50)	100
@st_Email	varchar(100)	100
@st_password	int	4
@dept_id	int	4
@St_Address	nvarchar(50)	100

### SQL Script

```
CREATE Proc [dbo].[update_Student] @st_id int , @st_Fname nvarchar(50) , @st_Lname
nvarchar(50) , @st_Email varchar(100),
@st_password int , @dept_id int , @St_Address nvarchar(50)
as
begin try
    if exists (select st_id from Student where St_id = @st_id )
        begin
            update Student
                set St_FName = @st_Fname , St_Lname = @st_Lname , St_Email = @st_Email
                    , St_Password = @st_password , dept_id = @dept_id , St_Address = @St_
Address
                where St_id = @st_id
        end
    else
        select 'Student Id is not found'
end try
begin catch
    Select ERROR_MESSAGE()
end catch
GO
```

## Uses

---

[dbo].[Student]

## [dbo].[update\_Topic]

### Properties

Property	Value
ANSI Nulls On	True
Quoted Identifier On	True

### Parameters

Name	Data Type	Max Length (Bytes)
@Topic_Id	int	4
@Topic_Name	nvarchar(50)	100

### SQL Script

```
-- update Topic

create Proc [dbo].[update_Topic] @Topic_Id int , @Topic_Name nvarchar(50)
as
begin try
    if exists (select Top_id from Topic where Top_id=@Topic_Id )
        begin
            update Topic
            set Top_Name = @Topic_Name
            where Top_id=@Topic_Id
        end
    else
        select 'Topic Id not found'
end try
begin catch
    Select ERROR_MESSAGE()
end catch
GO
```

### Uses

[dbo].[Topic]



## **Users**

### Objects

---

Name
dbo
guest

 **dbo**

### Properties

---

Property	Value
Type	WindowsUser
Login Name	DESKTOP-O4872J7\DELL
Default Schema	dbo

### Database Level Permissions


---

Type	Action
CONNECT	Grant

### SQL Script

---

GO

 **guest**

### Properties

---

Property	Value
Type	SqlUser
Default Schema	guest

### SQL Script

---

GO

## **Database Roles**

### **Objects**

Name
db_accessadmin
db_backupoperator
db_datareader
db_datawriter
db_ddladmin
db_denydatareader
db_denydatawriter
db_owner
db_securityadmin
public

## **db\_accessadmin**

### **Properties**

Property	Value
Owner	dbo

## **db\_backupoperator**

### **Properties**

Property	Value
Owner	dbo

 **db\_datareader**

#### Properties

---

Property	Value
Owner	dbo

 **db\_datawriter**

#### Properties

---

Property	Value
Owner	dbo

 **db\_ddladmin**

#### Properties

---

Property	Value
Owner	dbo

 **db\_denydatareader**

#### Properties

---


Property	Value
Owner	dbo

 **db\_denydatawriter**

#### Properties

---

Property	Value
Owner	dbo

 **db\_owner**

#### Properties

---

Property	Value
Owner	dbo

 **db\_securityadmin**

## Properties

---

Property	Value
Owner	dbo

 public

## Properties

---

Property	Value
Owner	dbo