Generated using <u>SQL Data Dictionary</u> demo version.

.

**SQLProject** 

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## **Tables:**

# **Table dbo.Administrators** (1 row)

	Column	Data Type	Identity	Nullable	Default
PK	AD_ID	int			
	AD_Fname	varchar(50)			
	AD_Lname	varchar(50)			
	AD_Name	varchar(101)			
	AD_Bdate	date			getdate()
	AD_Age	int		Х	
	AD_Phone	varchar(50)		Х	
	AD_Salary	money		Χ	5000
	AD_Street	varchar(50)		Х	
	AD_City	varchar(50)		Х	
	AD_Country	varchar(50)		Х	'Egypt'
	AD_HireDate	datetime			

#### Indexes:

PK\_\_Administrator\_\_EE09FCFED2F3FAAC (Primary Key) (Clustered) (100% Selectivity)

AD\_ID

### Used by:

#### Procedure dbo.Delete\_Administrator

AD\_ID

#### Procedure dbo.Insert\_Administrator

AD\_Bdate

AD\_City

AD\_Country

AD Fname

AD\_ID

AD\_Lname

AD\_Phone AD\_Salary

AD\_Street

#### Procedure dbo.Update\_Administrator

AD\_Bdate

AD\_City AD\_Country

AD\_Fname

AD\_ID

AD\_Lname

AD\_Phone

AD\_Salary AD\_Street

## Procedure dbo.Update\_Profile

AD\_Bdate

AD\_City

AD\_Country AD\_Fname

AD ID AD\_Lname

AD\_Phone

AD\_Street

# View dbo.ALLMEMBERS

## Table dbo.Courses (8 rows)

	Column	Data Type	Identity	Nullable	Default
PK	CR_ID	int	Χ		
	CR_Name	varchar(50)			
	CR_Grade	int			

#### **Indexes:**

PK\_\_Courses\_\_C858F92D43C4C8A0 (Primary Key) (Clustered) (12.5% Selectivity)

CR ID

### Referenced by:

dbo.CR\_EX\_QS (CR\_ID)

dbo.IN\_ST\_CR (CR\_ID)

**dbo.Questions** (CR\_ID)

**dbo.Topics** (CR\_ID)

### Used by:

## Function dbo.CR\_Grade

CR\_Grade CR\_ID

#### Procedure dbo.Check\_Corrective

CR Grade

CR\_ID

CR\_Name

# ${\bf Procedure\ dbo.Check\_Corrective\_By\_Dep}$

 $\mathsf{CR}\_\mathsf{Grade}$ 

CR\_ID

CR\_Name

### Procedure dbo.Correct\_Student\_Exam

 $\mathsf{CR}\_\mathsf{Grade}$ 

CR ID

#### Procedure dbo.Delete\_Course

CR\_ID

### Procedure dbo.Delete\_Instructor\_Course

CR\_ID

## Procedure dbo.Get\_Course\_Topics

CR ID

CR Name

## Procedure dbo.Get\_Instructor\_Courses

CR\_ID

CR\_Name

### Procedure dbo.Get\_Student\_Grades

CR\_ID CR\_Name

#### Procedure dbo.Insert\_Course

CR\_ID CR\_Name

### Procedure dbo.Insert\_Exam

CR\_ID CR\_Name

## Procedure dbo.Insert\_IN\_ST\_CR

CR ID

### Procedure dbo.Insert\_Instructor\_Course

CR ID

### Procedure dbo.Insert\_Question\_MCQ

CR\_ID CR\_Name

## Procedure dbo.Insert\_Question\_TF

CR\_ID CR\_Name

### Procedure dbo.Insert\_Topic

CR\_ID

## Procedure dbo.Update\_Course

CR\_Grade CR\_ID CR\_Name

# Table dbo.CR\_EX\_QS (81 rows)

	Column	Data Type	Identity	Nullable	Default
PK, FK	CR_ID	int			
PK, FK	EX_ID	int			
PK, FK	QS_ID	int			

### **Indexes:**

PK\_CR\_EX\_QS (Primary Key) (Clustered) (1.23% Selectivity)

CR\_ID EX\_ID QS\_ID

#### **References:**

dbo.Courses (CR\_ID)

dbo.Exams (EX\_ID)

dbo.Questions (QS\_ID)

## Used by:

### Procedure dbo.Check\_Corrective\_By\_Dep

CR\_ID EX\_ID

#### Procedure dbo.Correct\_Student\_Exam

CR\_ID EX\_ID QS\_ID

### Procedure dbo.Delete\_Course

CR\_ID

### Procedure dbo.Delete\_Question

 $QS_ID$ 

# Procedure dbo.Get\_Exam\_Questions

EX\_ID QS\_ID

### Procedure dbo.Insert\_Exam

CR\_ID EX\_ID QS\_ID

#### Procedure dbo.Insert\_Student\_Exam

EX\_ID QS\_ID

## Procedure dbo.Update\_Question

QS\_ID

### Procedure dbo.Update\_Question\_MCQ

QS\_ID

### Procedure dbo.Update\_Question\_TF

QS\_ID

## **Table dbo.Departments** (6 rows)

	Column	Data Type	Identity	Nullable	Default
PK	DP_ID	int	X		
	DP_Name	varchar(50)			
FK	DP_Manager	int			

## Indexes:

PK\_\_Departme\_\_7E732EA0779AE3A0 (Primary Key) (Clustered) (16.67% Selectivity)

DP\_ID

#### **References:**

**dbo.Instructors** (DP\_Manager -> IN\_ID)

### Referenced by:

**dbo.Instructors** (DP\_ID)

### dbo.Students (DP\_ID)

## Used by:

## Procedure dbo.Check\_Corrective\_By\_Dep

DP\_ID DP\_Name

### Procedure dbo.Delete\_Department

DP ID

### Procedure dbo.Delete\_Instructor

DP\_Manager

### Procedure dbo.Get\_Students\_By\_Department

DP\_ID DP\_Name

### Procedure dbo.Insert\_Department

DP\_ID DP\_Manager DP\_Name

### Procedure dbo.Update\_Department

DP\_ID DP\_Manager DP\_Name

# Table dbo.Exams (8 rows)

	Column	Data Type	Identity	Nullable	Default
PK	EX_ID	int	Χ		
	EX_Date	date		X	getdate()

#### **Indexes:**

PK\_Exams (Primary Key) (Clustered) (12.5% Selectivity)

EX\_ID

### Referenced by:

 $\mathbf{dbo.CR\_EX\_QS}~(\mathit{EX\_ID})$ 

dbo.ST\_EX\_Answers (EX\_ID)

# Used by:

# Procedure dbo.Delete\_Exam

EX\_Date EX\_ID

### Procedure dbo.Get\_Exam\_Questions

EX\_ID

## Procedure dbo.Get\_Student\_Answers

EX\_ID

### Procedure dbo.Insert\_Exam

### Procedure dbo.Insert\_ST\_EX\_Answers

EX\_ID

### Procedure dbo.Insert\_Student\_Exam

EX\_ID

# Table dbo.IN\_ST\_CR (15 rows)

	Column	Data Type	Identity	Nullable	Default
PK, FK	IN_ID	int			
PK, FK	ST_ID	int			
PK, FK	CR_ID	int			
	Grade	int		X	
	Date	date			getdate()

### **Indexes:**

PK\_IN\_ST\_CR (Primary Key) (Clustered) (6.67% Selectivity)

IN\_ID ST\_ID

CR\_ID

#### **References:**

dbo.Courses (CR\_ID)

**dbo.Instructors** (IN\_ID)

**dbo.Students** (ST\_ID)

## Used by:

#### Procedure dbo.Check\_Corrective

CR\_ID

Grade ST\_ID

Procedure dbo.Check\_Corrective\_By\_Dep

CR ID

Grade

ST\_ID

#### Procedure dbo.Correct\_Student\_Exam

CR\_ID

Grade ST\_ID

- -

CR\_ID

## Procedure dbo.Delete\_IN\_ST\_CR

Procedure dbo.Delete\_Course

CR\_ID

 $IN\_ID$ 

ST\_ID

### Procedure dbo.Get\_Instructor\_Courses

 $\mathsf{CR}_{\mathsf{ID}}$ 

 $IN\_ID$ 

ST\_ID

### Procedure dbo.Get\_Student\_Grades

CR\_ID Grade ST\_ID

### Procedure dbo.Insert\_IN\_ST\_CR

CR\_ID IN\_ID ST\_ID

### Procedure dbo.Update\_Grade

CR\_ID Grade IN\_ID ST\_ID

#### Procedure dbo.Update\_IN\_ST\_CR

CR\_ID Date IN\_ID ST\_ID

# **Table dbo.Instructors** (8 rows)

	Column	Data Type	Identity	Nullable	Default
PK	IN_ID	int			
	IN_Fname	varchar(50)			
	IN_Lname	varchar(50)			
	IN_Name	varchar(101)			
	IN_Bdate	date			getdate()
	IN_Age	int		Χ	
	IN_Phone	varchar(50)		X	
	IN_Salary	money		X	5000
	IN_Street	varchar(50)		X	
	IN_City	varchar(50)		X	
	IN_Country	varchar(50)		Χ	'Egypt'
	IN_HireDate	datetime			
FK	DP_ID	int			

#### Indexes:

PK\_\_Instruct\_\_EE09FCFED2F3FAAC (Primary Key) (Clustered) (12.5% Selectivity)

IN\_ID

#### **References:**

dbo.Departments (DP\_ID)

## Referenced by:

dbo.Departments (DP\_Manager -> IN\_ID)
dbo.IN\_ST\_CR (IN\_ID)

Used by:

Procedure dbo.Delete\_Department

DP\_ID

### Procedure dbo.Delete\_Instructor

IN\_ID

### Procedure dbo.Delete\_Instructor\_Course

# Procedure dbo.Get\_Instructor\_Courses

IN\_ID

IN\_Name

### Procedure dbo.Insert\_IN\_ST\_CR

IN ID

## Procedure dbo.Insert\_Instructor

DP\_ID

IN\_Bdate

IN\_City

IN\_Country IN\_Fname

IN ID

IN\_Lname

IN\_Phone

IN\_Salary

IN\_Street

### Procedure dbo.Insert\_Instructor\_Course

IN\_ID

### Procedure dbo.Update\_Instructor

DP\_ID

IN\_Bdate

IN\_City

IN\_Country

IN\_Fname IN\_ID

IN\_Lname

IN\_Phone

IN\_Salary

IN\_Street

# Procedure dbo.Update\_Profile

IN\_Bdate

IN\_City

IN\_Country

IN\_Fname

IN\_ID IN\_Lname

IN\_Phone

IN\_Street

## View dbo.ALLMEMBERS

IN\_ID

IN\_Name

# Table dbo.Login\_Data (4 rows)

	Column	Data Type	Identity	Nullable	Default
PK	Username	varchar(50)			
	Password	varchar(50)			

Email	varchar(50)	Х	
Role	varchar(20)		'anonymous'
Role_ID	int		0

#### **Indexes:**

PK\_Login\_Data\_1 (Primary Key) (Clustered) (25% Selectivity)

Username

### Used by:

Procedure dbo.Delete\_Login\_Data

Username

Procedure dbo.Insert\_Login\_Data

Email Password Username

Procedure dbo.Update\_Login\_Data

Email Password Role Role\_ID Username

# Table dbo.QS\_Choices (80 rows)

	Column	Data Type	Identity	Nullable	Default
PK, FK	QS_ID	int			
PK	Choice	varchar(500)			

#### **Indexes:**

PK\_QS\_Choices (Primary Key) (Clustered) (1.25% Selectivity)

QS\_ID Choice

#### **References:**

 ${\bf dbo.Questions}\;(QS\_ID)$ 

## Used by:

Procedure dbo.Delete\_Choice

Choice QS\_ID

Procedure dbo.Insert\_Question\_MCQ

Procedure dbo.Update\_Choice

Choice QS\_ID

**Procedure dbo.Update\_Question\_Choices** 

QS\_ID

# **Table dbo.Questions** (40 rows)

	Column	Data Type	Identity	Nullable	Default
PK	QS_ID	int	Χ		
	QS_Value	varchar(max)		Χ	
	QS_Type	varchar(20)			
	QS_Correct	varchar(max)			
	QS_Grade	int			1
FK	CR_ID	int			

#### **Indexes:**

PK\_Questions (Primary Key) (Clustered) (2.5% Selectivity)

QS\_ID

#### References:

dbo.Courses (CR\_ID)

## Referenced by:

 $\mathbf{dbo.CR\_EX\_QS}~(QS\_ID)$ 

**dbo.QS\_Choices** (QS\_ID)

 ${\bf dbo.ST\_EX\_Answers}\;(QS\_ID)$ 

### Used by:

#### Procedure dbo.Correct\_Student\_Exam

QS\_Correct

QS Grade

QS\_ID

### Procedure dbo.Delete\_Question

QS\_ID

## Procedure dbo.Get\_Exam\_Questions

QS\_ID

QS\_Value

#### Procedure dbo.Get\_Student\_Answers

QS\_ID

QS\_Value

### Procedure dbo.Insert\_Exam

CR\_ID

QS\_ID

QS\_Type

### Procedure dbo.Insert\_Question\_MCQ

Procedure dbo.Insert\_Question\_TF

### Procedure dbo.Insert\_ST\_EX\_Answers

QS\_ID

### Procedure dbo.Update\_Question

QS\_Grade

QS\_ID QS\_Value

### Procedure dbo.Update\_Question\_Choices

QS\_ID

### Procedure dbo.Update\_Question\_MCQ

QS\_Correct QS\_ID

#### Procedure dbo.Update\_Question\_TF

QS\_Correct QS\_ID

# Table dbo.ST\_EX\_Answers (30 rows)

	Column	Data Type	Identity	Nullable	Default
PK, FK	ST_ID	int			
PK, FK	EX_ID	int			
PK, FK	QS_ID	int			
	Answer	varchar(max)		Х	
	Finished	int			0
	Date	date			getdate()

#### **Indexes:**

### PK\_ST\_EX\_Answers (Primary Key) (Clustered) (3.33% Selectivity)

ST\_ID EX\_ID QS\_ID

### **References:**

dbo.Exams (EX\_ID)
dbo.Questions (QS\_ID)
dbo.Students (ST\_ID)

### Used by:

### Procedure dbo.Correct\_Student\_Exam

Answer EX\_ID Finished QS\_ID ST\_ID

### Procedure dbo.Update\_ST\_EX\_Answers

Answer Date EX\_ID Finished QS\_ID ST\_ID

# **Table dbo.Students** (12 rows)

	Column	Data Type	Identity	Nullable	Default
PK	ST_ID	int			
	ST_Fname	varchar(50)			
	ST_Lname	varchar(50)			

	ST_Name	varchar(101)		
	ST_Bdate	date	X	
	ST_Age	int	X	
	ST_Phone	varchar(50)	X	
	ST_Salary	money	X	1000
	ST_Street	varchar(50)	Х	
	ST_City	varchar(50)	X	
	ST_Country	varchar(50)	X	'Egypt'
	ST_JoinDate	date		getdate()
FK	DP_ID	int		

#### **Indexes:**

PK\_\_Students\_\_EBDB13EF25AA6308 (Primary Key) (Clustered) (8.33% Selectivity)

ST\_ID

#### References:

dbo.Departments (DP\_ID)

### Referenced by:

dbo.IN\_ST\_CR (ST\_ID)

dbo.ST\_EX\_Answers (ST\_ID)

### Used by:

**Procedure dbo.Check\_Corrective** 

ST ID ST\_Name

## Procedure dbo.Check\_Corrective\_By\_Dep

DP\_ID ST ID

ST\_Name

Procedure dbo.Delete\_Department

DP\_ID

Procedure dbo.Delete\_Student

ST\_ID

Procedure dbo.Get\_Student\_Answers

ST\_Name

Procedure dbo.Get\_Student\_Grades

ST\_ID ST\_Name

### Procedure dbo.Get\_Students\_By\_Department

DP\_ID

ST\_Age

ST\_Bdate

ST\_City

ST\_Country ST\_Fname

ST\_ID ST\_JoinDate

ST\_Lname

- ST\_Name
- ST\_Phone
- ST\_Salary
- ST\_Street

#### Procedure dbo.Insert\_IN\_ST\_CR

ST\_ID

### Procedure dbo.Insert\_ST\_EX\_Answers

ST\_ID

### Procedure dbo.Insert\_Student

- DP\_ID
- ST\_Bdate

- ST\_City ST\_Country ST\_Fname
- ST ID
- ST Lname
- ST\_Phone
- ST\_Salary ST\_Street

### Procedure dbo.Insert\_Student\_Exam

ST\_ID

#### Procedure dbo.Update\_Profile

- ST\_Bdate
- ST\_City
- ST\_Country
- ST\_Fname
- ST\_ID ST\_Lname ST\_Phone
- ST\_Street

## Procedure dbo.Update\_Student

- DP\_ID
- ST\_Bdate
- ST\_City
- ST\_Country
- ST\_Fname
- ST\_ID ST\_Lname ST\_Phone
- ST\_Salary
- ST\_Street

### View dbo.ALLMEMBERS

ST\_ID

ST\_Name

# **Table dbo.Topics** (36 rows)

	Column	Data Type	Identity	Nullable	Default
PK	TP_ID	int	Χ		
	TP_Name	varchar(100)			
PK, FK	CR ID	int			

#### **Indexes:**

```
PK_Topics (Primary Key) (Clustered) (2.78% Selectivity)
                TP_ID
                CR_ID
References:
        dbo.Courses (CR_ID)
Used by:
        Procedure dbo.Delete_Topic
               CR_ID
TP_ID
        Procedure dbo.Get_Course_Topics
               CR_ID
TP_Name
        Procedure dbo.Insert_Topic
                CR_ID
               TP_ID
TP_Name
        Procedure dbo.Update_Topic
               CR_ID
TP_ID
                TP_Name
```

# **Views:**

# **View dbo.ALLMEMBERS**

Column	Data Type	Nullable
ID	int	
Name	varchar(101)	

## **Uses:**

# **Table dbo.Administrators**

AD\_ID AD\_Name

## **Table dbo.Instructors**

IN\_ID IN\_Name

## **Table dbo.Students**

ST\_ID ST\_Name

# **Procedures:**

# **Procedure dbo.Check\_Corrective**

Parameter	Data Type	Default	Is Output
@CR_ID	int		

### **Result:**

Column	Data Type	Nullable
ST_ID	int	
ST_Name	varchar(101)	
Grade	int	X
CR_Name	varchar(50)	
CR_Grade	int	

#### **Uses:**

#### **Table dbo.Courses**

CR\_Grade CR\_ID CR\_Name

## Table dbo.IN\_ST\_CR

CR\_ID Grade ST\_ID

#### **Table dbo.Students**

ST\_ID ST\_Name

# Procedure dbo.Check\_Corrective\_By\_Dep

Parameter	Data Type	Default	Is Output
@DP_ID	int		

### **Result:**

Column	Data Type	Nullable
DP_Name	varchar(50)	
ST_Name	varchar(101)	
Grade	int	X
CR_Name	varchar(50)	
CR_Grade	int	
EX_ID	int	
ST_ID	int	

#### **Uses:**

#### **Table dbo.Courses**

CR\_Grade CR\_ID CR\_Name

### Table dbo.CR\_EX\_QS

CR\_ID

 $\mathsf{EX}_\mathsf{ID}$ 

### **Table dbo.Departments**

DP\_ID DP\_Name

## Table dbo.IN\_ST\_CR

CR\_ID Grade ST\_ID

### **Table dbo.Students**

DP\_ID ST\_ID ST\_Name

# **Procedure dbo.Convert\_Date**

Parameter	Data Type	Default	Is Output
@str	varchar(50)		
@RET_VAL	int		X

## Used by:

Procedure dbo.Update\_Administrator

Procedure dbo.Update\_IN\_ST\_CR

Procedure dbo.Update\_Instructor

Procedure dbo.Update\_Profile

Procedure dbo.Update\_Student

# **Procedure dbo.Correct\_Student\_Exam**

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@EX_ID	int		

#### **Uses:**

#### **Table dbo.Courses**

CR\_Grade CR\_ID

### Table dbo.CR\_EX\_QS

CR\_ID EX\_ID QS\_ID

### Table dbo.IN\_ST\_CR

CR\_ID Grade ST\_ID

### **Table dbo.Questions**

QS\_Correct QS\_Grade

QS\_ID

## Table dbo.ST\_EX\_Answers

Answer EX\_ID Finished QS\_ID ST\_ID

# **Procedure dbo.Delete\_Administrator**

Parameter	Data Type	Default	Is Output
@AD_ID	int		

### **Uses:**

**Table dbo.Administrators** 

AD\_ID

# **Procedure dbo.Delete\_Choice**

Parameter	Data Type	Default	Is Output
@QS_ID	int		
@Choice	varchar(max)		

#### **Uses:**

Table dbo.QS\_Choices

Choice QS\_ID

# **Procedure dbo.Delete\_Course**

Parameter	Data Type	Default	Is Output
@CR_ID	int		

#### **Uses:**

**Table dbo.Courses** 

CR\_ID

Table dbo.CR\_EX\_QS

 $\mathsf{CR}\_\mathsf{ID}$ 

Table dbo.IN\_ST\_CR

CR\_ID

# **Procedure dbo.Delete\_Department**

	Parameter	Data Type	Default	Is Output
@DP_ID		int		

### **Uses:**

**Table dbo.Departments** 

DP\_ID

**Table dbo.Instructors** 

DP\_ID

**Table dbo.Students** 

DP\_ID

# Procedure dbo.Delete Exam

Parameter	Data Type	Default	Is Output
@EX_ID	int		

#### **Uses:**

Table dbo.Exams

EX\_Date EX\_ID

# Procedure dbo.Delete\_IN\_ST\_CR

Parameter	Data Type	Default	Is Output
@IN_ID	int		
@ST_ID	int		
@CR_ID	int		

### **Uses:**

Table dbo.IN\_ST\_CR

CR\_ID IN\_ID ST\_ID

## **Procedure dbo.Delete Instructor**

Parameter	Data Type	Default	Is Output
@IN_ID	int		

# **Uses:**

**Table dbo.Departments** 

DP\_Manager

**Table dbo.Instructors** 

IN\_ID

# **Procedure dbo.Delete\_Instructor\_Course**

Parameter	Data Type	Default	Is Output
@CR_ID	int		
@IN_ID	int		

**Uses:** 

**Table dbo.Courses** 

CR\_ID

**Table dbo.Instructors** 

IN\_ID

# **Procedure dbo.Delete\_Login\_Data**

Parameter	Data Type	Default	Is Output
@Username	varchar(50)		

#### **Uses:**

Table dbo.Login\_Data

Username

# **Procedure dbo.Delete\_Question**

Parameter	Data Type	Default	Is Output	
@QS_ID	int			

#### **Uses:**

Table dbo.CR\_EX\_QS

QS\_ID

**Table dbo.Questions** 

QS\_ID

# **Procedure dbo.Delete\_ST\_Courses**

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@CR_ID	int		

# Procedure dbo.Delete\_ST\_EX\_Answers

_			
Parameter	Data Type	Default	Is Output
@ST_ID	int		
@EX_ID	int		
@QS_ID	int		
@Answer	varchar(max)		

# **Procedure dbo.Delete\_Student**

Parameter	Data Type	Default	Is Output
@ST ID	int		

#### **Uses:**

#### **Table dbo.Students**

ST\_ID

# **Procedure dbo.Delete\_Topic**

Parameter	Data Type	Default	Is Output
@TP_ID	int		
@CR_ID	int		

#### **Uses:**

### **Table dbo.Topics**

CR\_ID TP\_ID

# **Procedure dbo.Get\_Course\_Topics**

Parameter	Data Type	Default	Is Output
@CR_ID	int		

#### **Result:**

Column	Data Type	Nullable
CR_Name	varchar(50)	
TP_Name	varchar(100)	

#### **Uses:**

### Table dbo.Courses

CR\_ID CR\_Name

# Table dbo.Topics

CR\_ID TP\_Name

# **Procedure dbo.Get\_Exam\_Questions**

	Parameter	Data Type	Default	Is Output
(	@EX_ID	int		

### **Result:**

Column	Data Type	Nullable
EX_ID	int	
QS_Value	varchar(max)	Х

#### **Uses:**

## Table dbo.CR\_EX\_QS

EX\_ID QS\_ID

### Table dbo.Exams

EX\_ID

### **Table dbo.Questions**

QS\_ID QS\_Value

# **Procedure dbo.Get\_Instructor\_Courses**

Parameter	Data Type	Default	Is Output
@IN_ID	int		

### **Result:**

Column	Data Type	Nullable
IN_Name	varchar(101)	
CR_Name	varchar(50)	
STUDENTS_NUMBER	int	Х

#### **Uses:**

#### **Table dbo.Courses**

CR\_ID CR\_Name

## Table dbo.IN\_ST\_CR

CR\_ID IN\_ID ST\_ID

### **Table dbo.Instructors**

IN\_ID IN\_Name

# **Procedure dbo.Get\_Student\_Answers**

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@EX_ID	int		

#### **Result:**

Column	Data Type	Nullable
ST_Name	varchar(101)	
QS_Value	varchar(max)	Х
Answer	varchar(max)	Х

### **Uses:**

### Table dbo.Exams

EX\_ID

## **Table dbo.Questions**

QS\_ID QS\_Value

## **Table dbo.Students**

ST\_ID ST\_Name

# **Procedure dbo.Get\_Student\_Grades**

Parameter	Data Type	Default	Is Output
@ST_ID	int		

#### Result:

Column	Data Type	Nullable
ST_Name	varchar(101)	
CR_Name	varchar(50)	
Grade	int	Х

### **Uses:**

### Table dbo.Courses

CR\_ID CR\_Name

### Table dbo.IN\_ST\_CR

CR\_ID Grade ST\_ID

#### **Table dbo.Students**

ST\_ID ST\_Name

# **Procedure dbo.Get\_Students\_By\_Department**

Parameter	Data Type	Default	Is Output
@DP_ID	int		

### **Result:**

Column	Data Type	Nullable
ST_ID	int	
ST_Fname	varchar(50)	
ST_Lname	varchar(50)	
ST_Name	varchar(101)	
ST_Bdate	date	X
ST_Age	int	X
ST_Phone	varchar(50)	X
ST_Salary	money	X
ST_Street	varchar(50)	X
ST_City	varchar(50)	X
ST_Country	varchar(50)	X
ST_JoinDate	date	
DP_ID	int	
DP_Name	varchar(50)	

#### **Uses:**

### **Table dbo.Departments**

DP\_ID DP\_Name

#### Table dbo.Students

DP\_ID

ST\_Age

ST\_Bdate

ST\_City

ST\_Country ST\_Fname ST\_ID

ST\_JoinDate

ST\_Lname

ST\_Name ST\_Phone ST\_Salary ST\_Street

# **Procedure dbo.Insert\_Administrator**

Parameter	Data Type	Default	Is Output
@AD_ID	int		
@AD_Fname	varchar(50)		
@AD_Lname	varchar(50)		
@AD_Bdate	date		
@AD_Phone	varchar(50)		
@AD_Salary	money		
@AD_Street	varchar(50)		
@AD_City	varchar(50)		
@AD_Country	varchar(50)		

#### Uses:

#### **Table dbo.Administrators**

AD\_Bdate

AD\_City

AD\_Country

AD\_Fname

AD\_ID

AD\_Lname

AD\_Phone

AD\_Salary

AD\_Street

# **Procedure dbo.Insert\_Course**

Parameter	Data Type	Default	Is Output
@CR_Name	varchar(50)		
@CR_Grade	int		

#### **Uses:**

#### **Table dbo.Courses**

CR ID CR\_Name

# **Procedure dbo.Insert\_Department**

Parameter	Data Type	Default	Is Output
@DP_Name	varchar(50)		
@DP_Manager	int		

#### **Uses:**

### **Table dbo.Departments**

DP\_ID DP\_Manager DP\_Name

# **Procedure dbo.Insert\_Exam**

Parameter	Data Type	Default	Is Output
@CR_Name	varchar(50)		
@MCQ_Num	int		
@TF_Num	int		

#### **Uses:**

### Table dbo.Courses

CR\_ID CR\_Name

## Table dbo.CR\_EX\_QS

CR\_ID EX\_ID QS\_ID

### Table dbo.Exams

## **Table dbo.Questions**

CR\_ID QS\_ID QS\_Type

# Procedure dbo.Insert\_IN\_ST\_CR

Parameter	Data Type	Default	Is Output
@IN_ID	int		
@ST_ID	int		
@CR_ID	int		

#### **Uses:**

### Table dbo.Courses

CR\_ID

# Table dbo.IN\_ST\_CR

CR\_ID IN\_ID ST\_ID

## Table dbo.Instructors

IN\_ID

### **Table dbo.Students**

ST\_ID

# **Procedure dbo.Insert\_Instructor**

Parameter	Data Type	Default	Is Output
@IN_ID	int		
@IN_Fname	varchar(50)		
@IN_Lname	varchar(50)		
@IN_Bdate	date		
@IN_Phone	varchar(50)		
@IN_Salary	money		
@IN_Street	varchar(50)		
@IN_City	varchar(50)		
@IN_Country	varchar(50)		
@DP_ID	int		

#### Uses:

#### **Table dbo.Instructors**

DP\_ID

IN\_Bdate
IN\_City
IN\_Country

IN\_Fname

IN\_ID

IN\_Lname

IN\_Phone IN\_Salary IN\_Street

# **Procedure dbo.Insert\_Instructor\_Course**

Parameter	Data Type	Default	Is Output
@CR_ID	int		
@IN_ID	int		

#### Uses:

Table dbo.Courses

CR ID

**Table dbo.Instructors** 

IN\_ID

# Procedure dbo.Insert\_Login\_Data

Parameter	Data Type	Default	Is Output
@Username	varchar(50)		
@Password	varchar(50)		
@Email	varchar(50)		

#### Uses:

Table dbo.Login\_Data

# **Procedure dbo.Insert\_Question\_MCQ**

Parameter	Data Type	Default	Is Output
@CR_Name	varchar(50)		
@Question	varchar(max)		
@Choice1	varchar(max)		
@Choice2	varchar(max)		
@Choice3	varchar(max)		
@Choice4	varchar(max)		
@Correct_Answer	varchar(max)		

### **Uses:**

**Table dbo.Courses** 

CR\_ID CR\_Name

Table dbo.QS\_Choices

**Table dbo.Questions** 

# **Procedure dbo.Insert\_Question\_TF**

Parameter	Data Type	Default	Is Output
@CR_Name	varchar(50)		
@Question	varchar(max)		
@Correct_Answer	varchar(max)		

# **Uses:**

**Table dbo.Courses** 

CR\_ID CR\_Name

Table dbo.Questions

# **Procedure dbo.Insert ST Courses**

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@CR_ID	int		
@Grade	int		

# Procedure dbo.Insert\_ST\_EX\_Answers

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@EX_ID	int		
@QS_ID	int		
@Answer	varchar(100)		

#### **Uses:**

Table dbo.Exams

EX\_ID

**Table dbo.Questions** 

QS\_ID

**Table dbo.Students** 

ST\_ID

# Procedure dbo.Insert\_Student

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@ST_Fname	varchar(50)		
@ST_Lname	varchar(50)		
@ST_Bdate	date		
@ST_Phone	varchar(50)		
@ST_Salary	money		
@ST_Street	varchar(50)		
@ST_City	varchar(50)		
@ST_Country	varchar(50)		
@DP_ID	int		

#### **Uses:**

### **Table dbo.Students**

DP\_ID ST\_Bdate ST\_City

ST\_Country

ST\_Fname

ST\_ID

ST\_Lname ST\_Phone ST\_Salary

ST\_Street

# Procedure dbo.Insert\_Student\_Exam

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@EX_ID	int		

### Uses:

Table dbo.CR\_EX\_QS

EX\_ID QS\_ID

Table dbo.Exams

EX\_ID

**Table dbo.Students** 

ST\_ID

# **Procedure dbo.Insert\_Topic**

Parameter	Data Type	Default	Is Output
@TP_Name	varchar(50)		
@CR_ID	int		

#### **Uses:**

**Table dbo.Courses** 

CR\_ID

Table dbo.Topics

CR\_ID TP\_ID TP\_Name

# **Procedure dbo.Update\_Administrator**

Parameter	Data Type	Default	Is Output
@AD_ID	int		
@AD_Fname	varchar(50)		
@AD_Lname	varchar(50)		
@AD_Bdate	date		
@AD_Phone	varchar(50)		
@AD_Salary	money		
@AD_Street	varchar(50)		
@AD_City	varchar(50)		
@AD_Country	varchar(50)		

#### **Uses:**

Procedure dbo.Convert\_Date

**Table dbo.Administrators** 

AD\_Bdate

AD\_City

AD\_Country

AD\_Fname AD\_ID

AD\_Lname

AD\_Phone

AD\_Salary

AD\_Street

# **Procedure dbo.Update\_Choice**

Parameter	Data Type	Default	Is Output
@QS_ID	int		
@Choice	varchar(max)		

#### **Uses:**

Table dbo.QS\_Choices

Choice QS\_ID

# **Procedure dbo.Update\_Course**

Parameter	Data Type	Default	Is Output
@CR_ID	int		
@CR_Name	varchar(50)		
@CR_Grade	int		

### **Uses:**

## **Table dbo.Courses**

CR\_Grade CR\_ID CR\_Name

# **Procedure dbo.Update\_Department**

Parameter	Data Type	Default	Is Output
@DP_ID	int		
@DP_Name	varchar(50)		
@DP_Manager	int		

#### **Uses:**

#### **Table dbo.Departments**

DP\_ID DP\_Manager DP\_Name

# Procedure dbo.Update\_Grade

Parameter	Data Type	Default	Is Output
@IN_ID	int		
@ST_ID	int		
@CR_ID	int		
@Grade	int		

## **Uses:**

### Function dbo.CR\_Grade

Table dbo.IN\_ST\_CR

CR\_ID Grade IN\_ID ST\_ID

# Procedure dbo.Update\_IN\_ST\_CR

Parameter	Data Type	Default	Is Output
@IN_ID	int		
@ST_ID	int		
@CR_ID	int		
@Date	varchar(50)		

### **Uses:**

### Procedure dbo.Convert\_Date

## Table dbo.IN\_ST\_CR

CR\_ID Date IN\_ID ST\_ID

# **Procedure dbo.Update\_Instructor**

Parameter	Data Type	Default	Is Output
@IN_ID	int		
@IN_Fname	varchar(50)		
@IN_Lname	varchar(50)		
@IN_Bdate	date		
@IN_Phone	varchar(50)		
@IN_Salary	money		
@IN_Street	varchar(50)		
@IN_City	varchar(50)		
@IN_Country	varchar(50)		
@DP_ID	int		

### **Uses:**

### Procedure dbo.Convert\_Date

#### **Table dbo.Instructors**

DP\_ID IN\_Bdate

IN\_City

IN\_Country

IN\_Fname

IN\_ID

IN\_Lname

IN\_Phone IN\_Salary

IN\_Street

# Procedure dbo.Update\_Login\_Data

Parameter	Data Type	Default	Is Output
@Username	varchar(50)		
@Password	varchar(50)		
@Email	varchar(50)		
@Role	varchar(20)		
@Role_ID	int		

## **Uses:**

### Table dbo.Login\_Data

Email Password Role Role\_ID Username

# **Procedure dbo.Update\_Profile**

Parameter	Data Type	Default	Is Output

@Role	varchar(50)
@Role_ID	int
@F_Name	varchar(50)
@L_Name	varchar(50)
@Birthdate	varchar(50)
@Phone	varchar(50)
@Street	varchar(50)
@City	varchar(50)
@Country	varchar(50)

### **Uses:**

## Procedure dbo.Convert\_Date

# **Table dbo.Administrators**

AD\_Bdate

AD\_City

AD\_Country

AD\_Fname AD\_ID

AD\_Lname

AD Phone

AD\_Street

#### **Table dbo.Instructors**

IN\_Bdate

IN\_City

IN\_Country

IN\_Fname

IN\_ID

IN\_Lname IN\_Phone

IN\_Street

### **Table dbo.Students**

ST\_Bdate ST\_City ST\_Country

ST\_Fname

ST\_ID

ST\_Lname

ST\_Phone ST\_Street

# **Procedure dbo.Update\_Question**

Parameter	Data Type	Default	Is Output
@QS_ID	int		
@QS_Value	varchar(max)		
@QS_Grade	int		

### **Uses:**

## Table dbo.CR\_EX\_QS

QS\_ID

## **Table dbo.Questions**

QS\_Grade

QS\_ID

QS\_Value

# **Procedure dbo.Update\_Question\_Choices**

Parameter	Data Type	Default	Is Output
@QS_ID	int		
@Choice1	varchar(max)		
@Choice2	varchar(max)		
@Choice3	varchar(max)		
@Choice4	varchar(max)		

## Used by:

Procedure dbo.Update\_Question\_MCQ

**Uses:** 

Table dbo.QS\_Choices

QS\_ID

**Table dbo.Questions** 

QS\_ID

# **Procedure dbo.Update\_Question\_MCQ**

Parameter	Data Type	Default	Is Output
@QS_ID	int		
@Choice1	varchar(max)		
@Choice2	varchar(max)		
@Choice3	varchar(max)		
@Choice4	varchar(max)		
@Correct_Answer	varchar(max)		

#### **Uses:**

Procedure dbo.Update\_Question\_Choices

Table dbo.CR\_EX\_QS

QS\_ID

**Table dbo.Questions** 

QS\_Correct QS\_ID

# Procedure dbo.Update\_Question\_TF

Parameter	Data Type	Default	Is Output
@QS_ID	int		
@Correct_Answer	varchar(max)		

#### **Uses:**

Table dbo.CR\_EX\_QS

QS\_ID

**Table dbo.Questions** 

QS\_Correct

# **Procedure dbo.Update\_ST\_Courses**

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@CR_ID	int		
@Grade	int		

# **Procedure dbo.Update\_ST\_EX\_Answers**

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@EX_ID	int		
@QS_ID	int		
@Answer	varchar(max)		

#### **Uses:**

#### Table dbo.ST\_EX\_Answers

Answer Date EX\_ID Finished QS\_ID ST\_ID

# **Procedure dbo.Update\_Student**

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@ST_Fname	varchar(50)		
@ST_Lname	varchar(50)		
@ST_Bdate	date		
@ST_Phone	varchar(50)		
@ST_Salary	money		
@ST_Street	varchar(50)		
@ST_City	varchar(50)		
@ST_Country	varchar(50)		
@DP_ID	int		

## **Uses:**

#### Procedure dbo.Convert\_Date

### **Table dbo.Students**

DP\_ID

ST\_Bdate ST\_City ST\_Country

ST\_Fname

ST\_ID

ST\_Lname

ST\_Phone ST\_Salary ST\_Street

# **Procedure dbo.Update\_Topic**

Parameter	Data Type	Default	Is Output
@TP_ID	int		
@TP_Name	varchar(50)		
@CR_ID	int		

### **Uses:**

## Table dbo.Topics

CR\_ID TP\_ID TP\_Name

# **Functions:**

# **Scalar Function dbo.CR\_Grade**

Parameter	Data Type	Default
@CR_ID	int	

### **Result:**

Data Type	Nullable
int	Х

# Used by:

Constraint dbo.Check\_Grade on dbo.IN\_ST\_CR

Procedure dbo.Update\_Grade

### **Uses:**

**Table dbo.Courses** 

CR\_Grade CR\_ID