

Generated using SQL Data Dictionary demo version.

## **ExamSystem**

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## **Tables:**

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

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Crs_Id	int			
	Crs_Name	varchar(20)		X	
	Crs_Duration	int		X	

#### **Indexes:**

**PK\_\_Courses\_\_56CAA5D5B49BA6DD** (Primary Key) (Clustered)

Crs\_Id

#### **Referenced by:**

**dbo.Exam** (Crs\_Id)

**dbo.Inst\_Crs** (Crs\_Id)

**dbo.Questions** (Crs\_Id)

**dbo.Student\_Crs** (Crs\_Id)

**dbo.Topics** (Crs\_Id)

#### **Used by:**

**Procedure dbo.Crs\_Insert**

**Procedure dbo.DeleteCrs\_byID**

**Procedure dbo.InstructorCrs**

**Procedure dbo.studentCourses**

**Procedure dbo.Update\_CrsDuration**

**View dbo.TopicsAtC#**

### **Table dbo.Department** (5 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Dept_id	int			
	Dept_name	varchar(20)		X	
	Dept_desc	varchar(100)		X	

#### **Indexes:**

**PK\_\_Departme\_\_72A8C6A4672B00C2** (Primary Key) (Clustered)

Dept\_id

#### **Referenced by:**

**dbo.Instructor** (Dept\_id)

**dbo.Student** (Dept\_id)

#### **Used by:**

**Procedure dbo.Dept\_Insert**

View **dbo.StudentAtSD**

**Table dbo.Exam** (0 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Exam_Id	int	X		
	Ex_duration	int			
	Ex_startTime	datetime		X	
<b>FK</b>	Crs_Id	int			

**Indexes:**

**PK\_\_Exam\_\_C782CA59E5E7D69D** (Primary Key) (Clustered)

Exam\_Id

**References:**

**dbo.Courses** (Crs\_Id)

**Referenced by:**

**dbo.St\_Answer** (Exam\_Id)

**Triggers:**

**deleteEXamTrigger** (After Delete)

**updateExamTrigger** (After Update)

**Used by:**

**Procedure dbo.ExamGeneration**

**Procedure dbo.examTable**

**Procedure dbo.selectExamData**

**Procedure dbo.studentCourses**

**Table dbo.Inst\_Crs** (15 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	Ins_Id	int			
<b>PK, FK</b>	Crs_Id	int			

**Indexes:**

**PK\_\_Inst\_Crs\_\_5078A3B0577ACE68** (Primary Key) (Clustered)

Ins\_Id

Crs\_Id

**References:**

**dbo.Courses** (Crs\_Id)

**dbo.Instructor** (Ins\_Id)

**Used by:**

**Procedure dbo.Inst\_Crs\_Insert**

**Procedure dbo.InstructorCrs**

**Table dbo.Instructor** (7 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Ins_Id	int			
	Ins_name	varchar(20)		X	
	Salary	money		X	
<b>FK</b>	Dept_id	int		X	
<b>FK</b>	MGR_id	int		X	
	Ins_Password	varchar(8)			

**Indexes:**

**PK\_\_Instruct\_\_151409EDA58EA313** (Primary Key) (Clustered)

Ins\_Id

**References:**

**dbo.Department** (Dept\_id)

**dbo.Instructor** (MGR\_id -> Ins\_Id)

**Referenced by:**

**dbo.Inst\_Crs** (Ins\_Id)

**dbo.Instructor** (MGR\_id -> Ins\_Id)

**dbo.Std\_Ins** (Ins\_Id)

**Used by:**

**Procedure dbo.InstructorLogin**

**Table dbo.Q\_Choices** (120 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Choice	varchar(50)			
<b>PK, FK</b>	Q_Id	int			

**Indexes:**

**PK\_\_Q\_Choice\_\_D3A8ECFE527FC358** (Primary Key) (Clustered)

Choice

Q\_Id

**References:**

**dbo.Questions** (Q\_Id)

**Used by:**

**Procedure dbo.questionChoices**

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

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Q_Id	int			
	Q_Grade	int		X	

	Q_Ans	varchar(50)		X	
	Q_Type	varchar(10)		X	
	Q_Desc	varchar(200)		X	
<b>FK</b>	Crs_Id	int		X	

#### Indexes:

**PK\_\_Question\_\_F4FC370E0CD05EF8** (Primary Key) (Clustered)

Q\_Id

#### References:

**dbo.Courses** (Crs\_Id)

#### Referenced by:

**dbo.Q\_Choices** (Q\_Id)

**dbo.St\_Answer** (Q\_Id)

#### Triggers:

**deleteQuestionTrigger** (After Delete)

**updateQuestionTrigger** (After Update)

#### Used by:

**Procedure dbo.AnswerCorrection**

**Procedure dbo.answerQuestion**

**Procedure dbo.ExamGeneration**

**Procedure dbo.getQuestionList**

**Procedure dbo.insertDataQuestion**

**Procedure dbo.questionChoices**

#### Table dbo.St\_Answer (0 rows)

	Column	Data Type	Identity	Nullable	Default
	St_Ans	varchar(50)		X	
<b>PK, FK</b>	Q_Id	int			
<b>PK, FK</b>	St_Id	int			
<b>PK, FK</b>	Exam_Id	int			
	Ans_Grade	int		X	0

#### Indexes:

**PK\_St\_Answer** (Primary Key) (Clustered)

Q\_Id  
St\_Id  
Exam\_Id

#### References:

**dbo.Exam** (Exam\_Id)

**dbo.Questions** (Q\_Id)

**dbo.Student** (St\_Id)

**Used by:****Procedure** `dbo.AnswerCorrection`**Procedure** `dbo.answerQuestion`**Procedure** `dbo.ExamGeneration`**Procedure** `dbo.getQuestionList`**Procedure** `dbo.questionChoices`**Table** `dbo.Std_Ins` (26 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	St_Id	int			
<b>PK, FK</b>	Ins_Id	int			

**Indexes:****PK\_\_Std\_Ins\_\_78520F2DE62BFA93** (Primary Key) (Clustered)

St\_Id  
Ins\_Id

**References:****dbo.Instructor** (*Ins\_Id*)**dbo.Student** (*St\_Id*)**Used by:****Procedure** `dbo.Std_Inst_Insert`**Table** `dbo.Student` (12 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	St_Id	int			
	St_Fname	varchar(20)		X	
	St_Lname	varchar(20)		X	
	St_Address	varchar(50)		X	
	St_Age	int		X	
<b>FK</b>	Dept_id	int		X	
	Password	varchar(8)			

**Indexes:****PK\_\_Student\_\_B9034FB312881C6F** (Primary Key) (Clustered)

St\_Id

**References:****dbo.Department** (*Dept\_id*)**Referenced by:****dbo.St\_Answer** (*St\_Id*)**dbo.Std\_Ins** (*St\_Id*)**dbo.Student\_Crs** (*St\_Id*)



**Used by:****Procedure** dbo.ExamGeneration**Procedure** dbo.getStudentsLogin**Procedure** dbo.studentCourses**Procedure** dbo.StudentLogin**Table** dbo.Student\_Crs (43 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	St_Id	int			
<b>PK, FK</b>	Crs_Id	int			
	Crs_Grade	int		X	0

**Indexes:****PK\_\_Student\_\_FC6FE5EE7271DD0D** (Primary Key) (Clustered)St\_Id  
Crs\_Id**References:****dbo.Courses** (Crs\_Id)**dbo.Student** (St\_Id)**Used by:****Procedure** dbo.AnswerCorrection**Procedure** dbo.getCrsGrade**Procedure** dbo.Std\_Crs\_Insert**Procedure** dbo.studentCourses**Table** dbo.Topics (28 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Topic_id	int			
	Topic_name	varchar(20)		X	
<b>FK</b>	Crs_Id	int		X	

**Indexes:****PK\_\_Topics\_\_8DEBA02D4515BA0E** (Primary Key) (Clustered)

Topic\_id

**References:****dbo.Courses** (Crs\_Id)**Used by:****Procedure** dbo.DeleteTop\_byID**Procedure** dbo.Top\_Insert

**Procedure** `dbo.Update_TopName`

**View** `dbo.TopicsAtC#`

## **Views:**

### **View dbo.StudentAtSD**

Column	Data Type	Nullable
Fullname	varchar(41)	X
Dept_name	varchar(20)	X

#### **Uses:**

Table dbo.Department

### **View dbo.TopicsAtC#**

Column	Data Type	Nullable
C#_Topic	varchar(20)	X

#### **Uses:**

Table dbo.Courses

Table dbo.Topics

## **Procedures:**

### **Procedure dbo.AnswerCorrection**

Parameter	Data Type	Default	Is Output
@SID	int		
@CID	int		

#### **Uses:**

Table dbo.Questions

Table dbo.St\_Answer

Table dbo.Student\_Crs

### **Procedure dbo.answerQuestion**

Parameter	Data Type	Default	Is Output
@QID	int		
@SID	int		
@CID	int		
@Ans	varchar(50)		

#### **Uses:**

Table dbo.Questions

Table dbo.St\_Answer

### **Procedure dbo.Crs\_Insert**

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(20)		
@duration	int		

#### **Uses:**

Table dbo.Courses

### **Procedure dbo.DeleteCrs\_byID**

Parameter	Data Type	Default	Is Output
@crsID	int		

#### **Uses:**

Table dbo.Courses

### **Procedure dbo.DeleteInst\_byID**

Parameter	Data Type	Default	Is Output
@instID	int		

### **Procedure dbo.DeleteSt\_byID**

Parameter	Data Type	Default	Is Output
@StID	int		

### **Procedure dbo.DeleteTop\_byID**

Parameter	Data Type	Default	Is Output
@ID	int		

#### **Uses:**

Table dbo.Topics

### **Procedure dbo.Dept\_Insert**

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(20)		
@desc	varchar(100)		

#### **Uses:**

Table dbo.Department

### **Procedure dbo.ExamCreate**

Parameter	Data Type	Default	Is Output
@examDuration	int		
@CrsID	int		

### **Procedure dbo.ExamGeneration**

Parameter	Data Type	Default	Is Output
@SID	int		
@CID	int		

#### **Uses:**

Table dbo.Exam

Table dbo.Questions

Table dbo.St\_Answer

Table dbo.Student

### **Procedure dbo.examTable**

*No parameters.*

#### **Result:**

Column	Data Type	Nullable
Ex_duration	int	
Crs_Id	int	

**Uses:**

Table dbo.Exam

**Procedure dbo.getCrsGrade**

Parameter	Data Type	Default	Is Output
@SID	int		
@CID	int		

**Result:**

Column	Data Type	Nullable
Crs_Grade	int	X

**Uses:**

Table dbo.Student\_Crs

**Procedure dbo.getQuestionList**

Parameter	Data Type	Default	Is Output
@SID	int		
@CID	int		

**Result:**

Column	Data Type	Nullable
Q_Id	int	
Q_Desc	varchar(200)	X

**Uses:**

Table dbo.Questions

Table dbo.St\_Answer

**Procedure dbo.getStudentsLogin**

*No parameters.*

**Result:**

Column	Data Type	Nullable
St_Id	int	
Password	varchar(8)	

**Uses:**

Table dbo.Student

**Procedure dbo.insertChoices**

Parameter	Data Type	Default	Is Output
@choice	varchar(50)		
@id	int		

### **Procedure dbo.insertDataExam**

Parameter	Data Type	Default	Is Output
@id	int		
@duration	int		
@start_Time	datetime		
@courseId	int		

### **Procedure dbo.insertDataQuestion**

Parameter	Data Type	Default	Is Output
@id	int		
@grade	int		
@answer	varchar(50)		
@type	varchar(10)		
@description	varchar(200)		

#### **Uses:**

Table **dbo.Questions**

### **Procedure dbo.Inst\_Crs\_Insert**

Parameter	Data Type	Default	Is Output
@iid	int		
@cid	int		

#### **Uses:**

Table **dbo.Inst\_Crs**

### **Procedure dbo.Inst\_Insert**

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(20)		
@salary	money		
@deptid	int		
@mgr	int		

### **Procedure dbo.InstructorCrs**

Parameter	Data Type	Default	Is Output
@InsID	int		

#### **Result:**

Column	Data Type	Nullable
Crs_Id	int	
Crs_Name	varchar(20)	X

#### **Uses:**

Table dbo.Courses

Table dbo.Inst\_Crs

### **Procedure dbo.InstructorLogin**

Parameter	Data Type	Default	Is Output
@ID	int		
@PW	varchar(8)		

**Result:**

Column	Data Type	Nullable
(No column name)	int	X

**Uses:**

Table dbo.Instructor

### **Procedure dbo.questionChoices**

Parameter	Data Type	Default	Is Output
@QID	int		

**Result:**

Column	Data Type	Nullable
Choice	varchar(50)	
Q_Id	int	

**Uses:**

Table dbo.Q\_Choices

Table dbo.Questions

Table dbo.St\_Answer

### **Procedure dbo.selectExamData**

*No parameters.*

**Result:**

Column	Data Type	Nullable
Ex_duration	int	
Crs_Id	int	

**Uses:**

Table dbo.Exam

### **Procedure dbo.Std\_Crs\_Insert**

Parameter	Data Type	Default	Is Output
@sid	int		
@cid	int		
@grade	int		



**Uses:**

Table **dbo.Student\_Crs**

**Procedure dbo.Std\_Insert**

Parameter	Data Type	Default	Is Output
@id	int		
@fname	varchar(20)		
@lname	varchar(20)		
@grade	int		
@addr	varchar(50)		
@age	int		
@deptid	int		

**Procedure dbo.Std\_Inst\_Insert**

Parameter	Data Type	Default	Is Output
@sid	int		
@iid	int		

**Uses:**

Table **dbo.Std\_Ins**

**Procedure dbo.studentCourses**

Parameter	Data Type	Default	Is Output
@StID	int		

**Result:**

Column	Data Type	Nullable
St_Id	int	
Crs_Id	int	
Crs_Name	varchar(20)	X

**Uses:**

Table **dbo.Courses**

Table **dbo.Exam**

Table **dbo.Student**

Table **dbo.Student\_Crs**

**Procedure dbo.StudentLogin**

Parameter	Data Type	Default	Is Output
@ID	int		
@PW	varchar(8)		

**Result:**

Column	Data Type	Nullable
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(No column name)	int	X
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#### Uses:

Table **dbo.Student**

#### **Procedure dbo.Top\_Insert**

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(20)		
@cid	int		

#### Uses:

Table **dbo.Topics**

#### **Procedure dbo.Update\_CrsDuration**

Parameter	Data Type	Default	Is Output
@CrsId	int		
@CrsDuration	int		

#### Uses:

Table **dbo.Courses**

#### **Procedure dbo.Update\_Salary20perc**

Parameter	Data Type	Default	Is Output
@instID	int		

#### **Procedure dbo.Update\_StAddr**

Parameter	Data Type	Default	Is Output
@stID	int		
@stAdd	varchar(50)		

#### **Procedure dbo.Update\_StDept**

Parameter	Data Type	Default	Is Output
@stID	int		
@DeptId	int		

#### **Procedure dbo.Update\_TopName**

Parameter	Data Type	Default	Is Output
@topId	int		
@topname	varchar(20)		

#### Uses:

