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## **Examination\_SystemDB**

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## **Tables:**

**Table dbo.Choices** (540 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	Quest_ID	int			
<b>PK</b>	Model_Ans_Num	int			
	Ans_Cont	nvarchar(50)			

## **Indexes:**

**PK\_Choices** (Primary Key) (Clustered) (0.19% Selectivity)

Quest\_ID  
Model\_Ans\_Num

## **References:**

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

## **Used by:**

**Procedure dbo.AddNewQuestionForStaff**

**Procedure dbo.Delete\_Choise**

Model\_Ans\_Num  
Quest\_ID

**Procedure dbo.DeleteQuestionForStaff**

Quest\_ID

**Procedure dbo.GetChoices**

Ans\_Cont  
Quest\_ID

**Procedure dbo.GetQuestionsForStaff**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

**Procedure dbo.insert\_Choice**

Model\_Ans\_Num  
Quest\_ID

**Procedure dbo.R5\_Exam\_Quests**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

**Procedure dbo.R6\_Stud\_Exam\_Quests**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

**Procedure dbo.select\_Choise**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

**Procedure dbo.update\_Choice**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

**Procedure dbo.UpdateQuestionForStaff**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

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

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Crs_ID	int			
	Crs_Name	nvarchar(50)			
<b>FK</b>	Topic_ID	int			

#### **Indexes:**

**PK\_Courses** (Primary Key) (Clustered) (12.5% Selectivity)

Crs\_ID

#### **References:**

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

#### **Referenced by:**

**dbo.Exams** (Crs\_ID)

**dbo.INS\_Crs** (Crs\_ID)

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

**dbo.ST\_Crs** (Crs\_ID)

#### **Used by:**

**Procedure dbo.AddNewQuestionForStaff**

Crs\_ID  
Crs\_Name

**Procedure dbo.Delete\_Course**

Crs\_ID

**Procedure dbo.GenerateExam\_V2**

Crs\_ID  
Crs\_Name

**Procedure dbo.GenerateExam\_V3**

Crs\_ID  
Crs\_Name

**Procedure dbo.GetCourseGradeForStudent**

Crs\_ID  
Crs\_Name

**Procedure dbo.GetCoursesForStaff**

Crs\_ID  
Crs\_Name

**Procedure dbo.GetGradesForStaff**

Crs\_ID  
Crs\_Name

**Procedure dbo.GetQuestionsForStaff**

Crs\_ID  
Crs\_Name

**Procedure dbo.insert\_Course**

Crs\_ID

**Procedure dbo.R2\_Stud\_Grade**

Crs\_ID  
Crs\_Name

**Procedure dbo.R3\_Ins\_Crs**

Crs\_ID  
Crs\_Name

**Procedure dbo.R4\_Crs\_Top**

Crs\_ID  
Crs\_Name  
Topic\_ID

**Procedure dbo.select\_course**

Crs\_ID  
Crs\_Name  
Topic\_ID

**Procedure dbo.Stud\_Grades**

Crs\_ID  
Crs\_Name

**Procedure dbo.StudentExaminedCourses**

Crs\_ID  
Crs\_Name

**Procedure dbo.update\_Course**

Crs\_ID  
Crs\_Name  
Topic\_ID

**Procedure dbo.UpdateQuestionForStaff**

Crs\_ID  
Crs\_Name

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

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Dept_ID	int			
	Dept_Name	nvarchar(50)			
	Dept_Desc	nvarchar(50)			

### **Indexes:**

**PK\_Departments** (Primary Key) (Clustered) (8.33% Selectivity)

Dept\_ID

### **Referenced by:**

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

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

### **Used by:**

**Procedure dbo.AddNewDeptForStaff**

Dept\_ID

**Procedure dbo.AddNewStudentForStaff**

Dept\_ID  
Dept\_Name

**Procedure dbo.delete\_Department**

Dept\_ID

**Procedure dbo.GetDeptsForStaff**

Dept\_Desc  
Dept\_ID  
Dept\_Name

**Procedure dbo.GetStudInfo**

Dept\_ID  
Dept\_Name

**Procedure dbo.insert\_Department**

Dept\_ID

**Procedure dbo.select\_Departments**

Dept\_Desc  
Dept\_ID  
Dept\_Name

**Procedure dbo.StudentsForStaff**

Dept\_ID  
Dept\_Name

**Procedure dbo.update\_Department**

Dept\_Desc  
Dept\_ID  
Dept\_Name

**Procedure dbo.UpdateDeptForStaff**

Dept\_Desc  
Dept\_ID



Dept\_Name

**Procedure dbo.UpdateStudentForStaff**

Dept\_ID

Dept\_Name

## Table **dbo.Exams** (126 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Exam_ID	int			
	Exam_Date	date			
<b>FK</b>	Crs_ID	int			

### Indexes:

**PK\_Exams** (Primary Key) (Clustered) (0.79% Selectivity)

Exam\_ID

### References:

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

### Referenced by:

**dbo.ST\_Exam\_Grade** (Exam\_ID)

**dbo.ST\_Exam\_Quest** (Exam\_ID)

### Used by:

**Procedure dbo.GenerateExam**

**Procedure dbo.GenerateExam\_V2**

Exam\_ID

**Procedure dbo.GenerateExam\_V3**

**Procedure dbo.GetCourseGradeForStudent**

Crs\_ID  
Exam\_Date  
Exam\_ID

**Procedure dbo.GetGradesForStaff**

Crs\_ID  
Exam\_Date  
Exam\_ID

**Procedure dbo.R2\_Stud\_Grade**

Crs\_ID  
Exam\_Date  
Exam\_ID

**Procedure dbo.Stud\_Grades**

Crs\_ID  
Exam\_ID

**Table dbo.INS\_Crs** (8 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	INS_ID	int			
<b>PK, FK</b>	Crs_ID	int			

**Indexes:**

**PK\_INS\_Crs** (Primary Key) (Clustered) (12.5% Selectivity)

INS\_ID  
Crs\_ID

**References:**

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

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

**Used by:**

**Procedure dbo.GetCourseGradeForStudent**

Crs\_ID  
INS\_ID

**Procedure dbo.GetCoursesForStaff**

Crs\_ID  
INS\_ID

**Procedure dbo.GetGradesForStaff**

Crs\_ID  
INS\_ID

**Procedure dbo.R3\_Ins\_Crs**

Crs\_ID  
INS\_ID

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

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	INS_ID	int			
	INS_Name	nvarchar(50)			
	INS_Degree	nvarchar(50)		X	
<b>FK</b>	Dept_ID	int			
	INS_Pass	nvarchar(50)		X	

**Indexes:**

**PK\_Instructors** (Primary Key) (Clustered) (12.5% Selectivity)

INS\_ID

**References:**

**dbo.Departments** (Dept\_ID)

**Referenced by:**

**dbo.INS\_Crs** (INS\_ID)

**Used by:**

**Procedure dbo.Delete\_instructor**

INS\_ID

**Procedure dbo.GetCourseGradeForStudent**

INS\_ID  
INS\_Name

**Procedure dbo.GetGradesForStaff**

INS\_ID

**Procedure dbo.insert\_instrucor**

INS\_ID

**Procedure dbo.InsLogin**

Dept\_ID  
INS\_Degree  
INS\_ID  
INS\_Name  
INS\_Pass

**Procedure dbo.R3\_Ins\_Crs**

INS\_ID  
INS\_Name

**Procedure dbo.select\_instructors**

Dept\_ID  
INS\_Degree  
INS\_ID  
INS\_Name

**Procedure dbo.update\_instrucor**

Dept\_ID  
INS\_Degree  
INS\_ID  
INS\_Name

**Table dbo.Questions** (180 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Quest_ID	int			
	Quest_Type	nvarchar(50)			
	Model_Ans_Num	int			
	Quest_Cont	nvarchar(200)			
<b>FK</b>	Crs_ID	int		X	

**Indexes:**

**PK\_Questions** (Primary Key) (Clustered) (0.56% Selectivity)

Quest\_ID

**References:**

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

**Referenced by:**

**dbo.Choices** (Quest\_ID)

**dbo.ST\_Exam\_Quest** (Quest\_ID)

**Used by:**

**Procedure dbo.AddNewDeptForStaff**

**Procedure dbo.AddNewQuestionForStaff**

Quest\_ID

**Procedure dbo.CorrectExam**

Model\_Ans\_Num  
Quest\_ID

**Procedure dbo.Delete\_Question**

Quest\_ID

**Procedure dbo.DeleteQuestionForStaff**

Quest\_ID

**Procedure dbo.GenerateExam**

Crs\_ID  
Quest\_ID  
Quest\_Type

**Procedure dbo.GenerateExam\_V2**

Crs\_ID  
Quest\_ID  
Quest\_Type

**Procedure dbo.GenerateExam\_V3**

Crs\_ID  
Quest\_ID  
Quest\_Type

**Procedure dbo.GetQuestion**

Quest\_Cont  
Quest\_ID

Quest\_Type

**Procedure dbo.GetQuestionsForStaff**

Crs\_ID  
Model\_Ans\_Num  
Quest\_Cont  
Quest\_ID  
Quest\_Type

**Procedure dbo.insert\_Question**

Quest\_ID

**Procedure dbo.R5\_Exam\_Quests**

Quest\_Cont  
Quest\_ID  
Quest\_Type

**Procedure dbo.R6\_Stud\_Exam\_Quests**

Quest\_Cont  
Quest\_ID  
Quest\_Type

**Procedure dbo.select\_Question**

Crs\_ID  
Model\_Ans\_Num  
Quest\_Cont  
Quest\_ID  
Quest\_Type

**Procedure dbo.update\_Question**

Crs\_ID  
Quest\_Cont  
Quest\_ID  
Quest\_Type

**Procedure dbo.UpdateQuestionForStaff**

Crs\_ID  
Model\_Ans\_Num  
Quest\_Cont  
Quest\_ID  
Quest\_Type

### Table **dbo.ST\_Crs** (126 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	ST_ID	int			
<b>PK, FK</b>	Crs_ID	int			

#### Indexes:

**PK\_ST\_Crs** (Primary Key) (Clustered) (0.79% Selectivity)

ST\_ID  
Crs\_ID

#### References:

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

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

#### Used by:

**Procedure dbo.GenerateExam**

**Procedure dbo.GenerateExam\_V2**

**Procedure dbo.GenerateExam\_V3**

Crs\_ID  
ST\_ID

**Procedure dbo.R3\_Ins\_Crs**

Crs\_ID  
ST\_ID

**Procedure dbo.StudentExaminedCourses**

Crs\_ID  
ST\_ID

### Table **dbo.ST\_Exam\_Grade** (126 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	ST_ID	int			
<b>PK, FK</b>	Exam_ID	int			
	Grade	int			

#### Indexes:

**PK\_ST\_Exam\_Grade** (Primary Key) (Clustered) (0.79% Selectivity)

ST\_ID  
Exam\_ID

#### References:

**dbo.Exams** (Exam\_ID)

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

#### Used by:

**Procedure dbo.CorrectExam**

**Procedure dbo.GetCourseGradeForStudent**

Exam\_ID  
Grade  
ST\_ID

**Procedure dbo.GetGradesForStaff**

Exam\_ID  
Grade  
ST\_ID

**Procedure dbo.R2\_Stud\_Grade**

Exam\_ID  
Grade  
ST\_ID

**Procedure dbo.Stud\_Grades**

Exam\_ID  
Grade  
ST\_ID



**Table dbo.ST\_Exam\_Quest** (1,260 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	ST_ID	int			
<b>PK, FK</b>	Exam_ID	int			
<b>PK, FK</b>	Quest_ID	int			
	ST_Answer	nvarchar(50)		X	
	Quest_Num	int		X	

**Indexes:**

**PK\_ST\_Exam\_Quest** (Primary Key) (Clustered) (0.08% Selectivity)

ST\_ID  
Exam\_ID  
Quest\_ID

**References:**

**dbo.Exams** (Exam\_ID)

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

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

**Used by:**

**Procedure dbo.CorrectExam**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_Answer  
ST\_ID

**Procedure dbo.GenerateExam**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_ID

**Procedure dbo.GenerateExam\_V2**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_ID

**Procedure dbo.GenerateExam\_V3**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_ID

**Procedure dbo.GetChoices**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_ID

**Procedure dbo.GetQuestion**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_ID

**Procedure dbo.R5\_Exam\_Quests**

Exam\_ID  
Quest\_ID  
Quest\_Num

**Procedure dbo.R6\_Stud\_Exam\_Quests**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_Answer  
ST\_ID

**Procedure dbo.Update\_ST\_Exam\_Quest**

Exam\_ID  
Quest\_ID  
ST\_Answer  
ST\_ID

**Procedure dbo.Update\_ST\_Exam\_Quest\_ByNo\_V2**

Exam\_ID  
Quest\_Num  
ST\_Answer  
ST\_ID

**Table dbo.Students** (114 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	ST_ID	int			
	ST_Fname	nvarchar(50)			
	ST_Lname	nvarchar(50)			
	ST_Address	nvarchar(50)			
	ST_DOB	date			
	ST_Pass	nvarchar(8)			
	ST_Phone	nvarchar(50)			
<b>FK</b>	Dept_ID	int			
	ST_pic	image		X	

**Indexes:**

**PK\_Students** (Primary Key) (Clustered) (0.88% Selectivity)

ST\_ID

**References:**

**dbo.Departments** (Dept\_ID)

**Referenced by:**

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

**dbo.ST\_Exam\_Grade** (ST\_ID)

**dbo.ST\_Exam\_Quest** (ST\_ID)

**Used by:**

**Procedure dbo.AddNewStudentForStaff**

ST\_ID

**Procedure dbo.Delete\_Student**

ST\_ID

**Procedure dbo.GetGradesForStaff**

ST\_Fname  
ST\_ID  
ST\_Lname

**Procedure dbo.GetStudInfo**

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

**Procedure dbo.insert\_Student**

ST\_ID

**Procedure dbo.R1\_Stu\_Dep**

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname

ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

**Procedure dbo.R2\_Stud\_Grade**

ST\_Fname  
ST\_ID  
ST\_Lname

**Procedure dbo.R6\_Stud\_Exam\_Quests**

ST\_Fname  
ST\_ID  
ST\_Lname

**Procedure dbo.select\_student**

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

**Procedure dbo.StudentsForStaff**

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

**Procedure dbo.studLogin**

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

**Procedure dbo.update\_Student**

ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

**Procedure dbo.UpdateStudentForStaff**

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone  
ST\_pic

**Table dbo.Topics** (4 rows)

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	Topic_ID	int			
	Topic_Name	nvarchar(50)			

**Indexes:**

**PK\_Topics** (Primary Key) (Clustered) (25% Selectivity)

Topic\_ID

**Referenced by:**

**dbo.Courses** (Topic\_ID)

**Used by:**

**Procedure dbo.Delete\_Topic**

Topic\_ID

**Procedure dbo.insert\_Topic**

Topic\_ID

**Procedure dbo.R4\_Crs\_Top**

Topic\_ID  
Topic\_Name

**Procedure dbo.select\_Topic**

Topic\_ID  
Topic\_Name

**Procedure dbo.update\_Topic**

Topic\_ID  
Topic\_Name

## **Procedures:**

### **Procedure dbo.AddNewDeptForStaff**

Parameter	Data Type	Default	Is Output
@Dept_Name	nvarchar(50)		
@Dept_Desc	nvarchar(50)		

#### **Uses:**

**Table dbo.Departments**

Dept\_ID

**Table dbo.Questions**

## **Procedure dbo.AddNewQuestionForStaff**

Parameter	Data Type	Default	Is Output
@Quest_Type	nvarchar(50)		
@Model_Ans_Num	int		
@Quest_Cont	nvarchar(200)		
@Crs_Name	nvarchar(50)		
@Option1	nvarchar(50)		
@Option2	nvarchar(50)		
@Option3	nvarchar(50)		
@Option4	nvarchar(50)		

### **Uses:**

**Table dbo.Choices**

**Table dbo.Courses**

Crs\_ID  
Crs\_Name

**Table dbo.Questions**

Quest\_ID

## **Procedure dbo.AddNewStudentForStaff**

Parameter	Data Type	Default	Is Output
@St_Fname	nvarchar(50)		
@St_Lname	nvarchar(50)		
@St_Address	nvarchar(50)		
@St_DOB	date		
@st_pass	nvarchar(8)		
@St_Phone	nvarchar(50)		
@Dept_Name	nvarchar(50)		
@St_Pic	image		

### **Uses:**

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

Dept\_ID  
Dept\_Name

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

ST\_ID



## **Procedure dbo.CorrectExam**

Parameter	Data Type	Default	Is Output
@st_id	int		
@exam_id	int		

### **Uses:**

#### **Table dbo.Questions**

Model\_Ans\_Num  
Quest\_ID

#### **Table dbo.ST\_Exam\_Grade**

#### **Table dbo.ST\_Exam\_Quest**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_Answer  
ST\_ID

## **Procedure dbo.Delete\_Choise**

Parameter	Data Type	Default	Is Output
@Quest_ID	int		
@Model_Ans_Num	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(21)	

### **Uses:**

#### **Table dbo.Choices**

Model\_Ans\_Num  
Quest\_ID

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

Parameter	Data Type	Default	Is Output
@Crs_ID	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(21)	

### **Uses:**

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

Crs\_ID

## **Procedure dbo.delete\_Department**

Parameter	Data Type	Default	Is Output
@dept_id	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(26)	

### **Uses:**

**Table dbo.Departments**

Dept\_ID

## **Procedure dbo.Delete\_instructor**

Parameter	Data Type	Default	Is Output
@INS_ID	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(25)	

### **Uses:**

**Table dbo.Instructors**

INS\_ID

### **Procedure dbo.Delete\_Question**

Parameter	Data Type	Default	Is Output
@Quest_ID	int		

#### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(23)	

#### **Uses:**

**Table dbo.Questions**

Quest\_ID

## **Procedure dbo.Delete\_Student**

Parameter	Data Type	Default	Is Output
@ST_ID	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(22)	

### **Uses:**

**Table dbo.Students**

ST\_ID

## **Procedure dbo.Delete\_Topic**

Parameter	Data Type	Default	Is Output
@Topic_ID	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(20)	

### **Uses:**

**Table dbo.Topics**

Topic\_ID



## **Procedure dbo.DeleteQuestionForStaff**

Parameter	Data Type	Default	Is Output
@Quest_ID	int		

### **Uses:**

#### **Table dbo.Choices**

Quest\_ID

#### **Table dbo.Questions**

Quest\_ID

## **Procedure dbo.GenerateExam**

Parameter	Data Type	Default	Is Output
@st_id	int		
@crs_id	int		
@exam_id	int		

### **Uses:**

**Table dbo.Exams**

**Table dbo.Questions**

Crs\_ID  
Quest\_ID  
Quest\_Type

**Table dbo.ST\_Crs**

**Table dbo.ST\_Exam\_Quest**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_ID

## **Procedure dbo.GenerateExam\_V2**

Parameter	Data Type	Default	Is Output
@st_id	int		
@crs_Name	nvarchar(50)		

### **Uses:**

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

Crs\_ID  
Crs\_Name

#### **Table dbo.Exams**

Exam\_ID

#### **Table dbo.Questions**

Crs\_ID  
Quest\_ID  
Quest\_Type

#### **Table dbo.ST\_Crs**

#### **Table dbo.ST\_Exam\_Quest**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_ID

### **Procedure dbo.GenerateExam\_V3**

Parameter	Data Type	Default	Is Output
@st_id	int		
@crs_Name	nvarchar(50)		
@exam_id	int		

#### **Uses:**

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

Crs\_ID  
Crs\_Name

##### **Table dbo.Exams**

##### **Table dbo.Questions**

Crs\_ID  
Quest\_ID  
Quest\_Type

##### **Table dbo.ST\_Crs**

Crs\_ID  
ST\_ID

##### **Table dbo.ST\_Exam\_Quest**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_ID

## **Procedure dbo.GetChoices**

Parameter	Data Type	Default	Is Output
@St_ID	int		
@Exam_No	int		
@Quest_No	int		

### **Result:**

Column	Data Type	Nullable
Ans_Cont	nvarchar(50)	

### **Uses:**

#### **Table dbo.Choices**

Ans\_Cont  
Quest\_ID

#### **Table dbo.ST\_Exam\_Quest**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_ID

## **Procedure dbo.GetCourseGradeForStudent**

Parameter	Data Type	Default	Is Output
@St_ID	int		
@Crs_Name	nvarchar(50)	NULL	

### **Result:**

Column	Data Type	Nullable
Crs_Name	nvarchar(50)	
Exam_Date	date	
INS_Name	nvarchar(50)	
Grade	int	

### **Uses:**

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

Crs\_ID  
Crs\_Name

#### **Table dbo.Exams**

Crs\_ID  
Exam\_Date  
Exam\_ID

#### **Table dbo.INS\_Crs**

Crs\_ID  
INS\_ID

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

INS\_ID  
INS\_Name

#### **Table dbo.ST\_Exam\_Grade**

Exam\_ID  
Grade  
ST\_ID

## **Procedure dbo.GetCoursesForStaff**

Parameter	Data Type	Default	Is Output
@INS_ID	int		

### **Result:**

Column	Data Type	Nullable
Crs_ID	int	
Crs_Name	nvarchar(50)	

### **Uses:**

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

Crs\_ID  
Crs\_Name

#### **Table dbo.INS\_Crs**

Crs\_ID  
INS\_ID

## **Procedure dbo.GetDeptsForStaff**

*No parameters.*

### **Result:**

Column	Data Type	Nullable
Dept_ID	int	
Dept_Name	nvarchar(50)	
Dept_Desc	nvarchar(50)	

### **Uses:**

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

Dept\_Desc  
Dept\_ID  
Dept\_Name



## **Procedure dbo.GetGradesForStaff**

Parameter	Data Type	Default	Is Output
@Crs_Name	nvarchar(50)		

### **Result:**

Column	Data Type	Nullable
ST_ID	int	
Student Name	nvarchar(101)	
Exam_Date	date	
Grade	int	

### **Uses:**

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

Crs\_ID  
Crs\_Name

#### **Table dbo.Exams**

Crs\_ID  
Exam\_Date  
Exam\_ID

#### **Table dbo.INS\_Crs**

Crs\_ID  
INS\_ID

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

INS\_ID

#### **Table dbo.ST\_Exam\_Grade**

Exam\_ID  
Grade  
ST\_ID

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

ST\_Fname  
ST\_ID  
ST\_Lname

## **Procedure dbo.GetQuestion**

Parameter	Data Type	Default	Is Output
@St_ID	int		
@Exam_No	int		
@Quest_No	int		

### **Result:**

Column	Data Type	Nullable
Quest_Cont	nvarchar(200)	
Quest_Type	nvarchar(50)	

### **Uses:**

#### **Table dbo.Questions**

Quest\_Cont  
Quest\_ID  
Quest\_Type

#### **Table dbo.ST\_Exam\_Quest**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_ID

## **Procedure dbo.GetQuestionsForStaff**

Parameter	Data Type	Default	Is Output
@Crs_name	nvarchar(50)		

### **Result:**

Column	Data Type	Nullable
Quest_ID	int	
Quest_Type	nvarchar(50)	
Model_Ans_Num	int	
Quest_Cont	nvarchar(200)	
Option 1	nvarchar(50)	X
Option 2	nvarchar(50)	X
Option 3	nvarchar(50)	X
Option 4	nvarchar(50)	X

### **Uses:**

#### **Table dbo.Choices**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

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

Crs\_ID  
Crs\_Name

#### **Table dbo.Questions**

Crs\_ID  
Model\_Ans\_Num  
Quest\_Cont  
Quest\_ID  
Quest\_Type

## **Procedure dbo.GetStudInfo**

Parameter	Data Type	Default	Is Output
@St_ID	int		

### **Result:**

Column	Data Type	Nullable
ST_ID	int	
ST_Fname	nvarchar(50)	
ST_Lname	nvarchar(50)	
ST_Address	nvarchar(50)	
ST_DOB	date	
ST_Pass	nvarchar(8)	
ST_Phone	nvarchar(50)	
Dept_Name	nvarchar(50)	

### **Uses:**

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

Dept\_ID  
Dept\_Name

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

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

## **Procedure dbo.insert\_Choice**

Parameter	Data Type	Default	Is Output
@Quest_ID	int		
@Model_Ans_Num	int		
@Ans_Cont	nvarchar(50)		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(19)	

### **Uses:**

#### **Table dbo.Choices**

Model\_Ans\_Num  
Quest\_ID

## **Procedure dbo.insert\_Course**

Parameter	Data Type	Default	Is Output
@Crs_ID	int		
@Crs_name	nvarchar(50)		
@Topic_ID	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(19)	

### **Uses:**

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

Crs\_ID

## **Procedure dbo.insert\_Department**

Parameter	Data Type	Default	Is Output
@dept_id	int		
@dept_name	nvarchar(50)		
@dept_desc	nvarchar(50)		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(12)	

### **Uses:**

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

Dept\_ID

## **Procedure dbo.insert\_instrucor**

Parameter	Data Type	Default	Is Output
@INS_ID	int		
@INS_Name	nvarchar(50)		
@INS_degree	nvarchar(50)		
@Dept_ID	int		

### **Uses:**

**Table dbo.Instructors**

INS\_ID



## **Procedure dbo.insert\_Question**

Parameter	Data Type	Default	Is Output
@Quest_ID	int		
@Quest_Type	nvarchar(50)		
@Model_Ans_Num	int		
@Quest_Cont	nvarchar(200)		
@Crs_ID	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(21)	

### **Uses:**

**Table dbo.Questions**

Quest\_ID

## **Procedure dbo.insert\_Student**

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@ST_Fname	nvarchar(50)		
@ST_Lname	nvarchar(50)		
@ST_Address	nvarchar(50)		
@ST_DOB	nvarchar(50)		
@ST_Pass	nvarchar(8)		
@ST_Phone	nvarchar(50)		
@Dept_ID	int		

### **Uses:**

**Table dbo.Students**

ST\_ID

## **Procedure dbo.insert\_Topic**

Parameter	Data Type	Default	Is Output
@Topic_ID	int		
@Topic_Name	nvarchar(50)		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(18)	

### **Uses:**

#### **Table dbo.Topics**

Topic\_ID

## **Procedure dbo.InsLogin**

Parameter	Data Type	Default	Is Output
@INS_ID	int		
@INS_Pass	nvarchar(50)		

### **Result:**

Column	Data Type	Nullable
INS_ID	int	
INS_Name	nvarchar(50)	
INS_Degree	nvarchar(50)	X
Dept_ID	int	
INS_Pass	nvarchar(50)	X

### **Uses:**

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

Dept\_ID  
INS\_Degree  
INS\_ID  
INS\_Name  
INS\_Pass

## **Procedure dbo.R1\_Stu\_Dep**

Parameter	Data Type	Default	Is Output
@DeptNo	int		

### **Result:**

Column	Data Type	Nullable
ST_ID	int	
ST_Fname	nvarchar(50)	
ST_Lname	nvarchar(50)	
ST_Address	nvarchar(50)	
ST_DOB	date	
ST_Pass	nvarchar(8)	
ST_Phone	nvarchar(50)	
Dept_ID	int	
ST_pic	image	X

### **Uses:**

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

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

## **Procedure dbo.R2\_Stud\_Grade**

Parameter	Data Type	Default	Is Output
@ST_ID	int		

### **Result:**

Column	Data Type	Nullable
ST_ID	int	
Student Full Name	nvarchar(101)	
Crs_ID	int	
Crs_Name	nvarchar(50)	
Exam_Date	date	
Grade	int	

### **Uses:**

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

Crs\_ID  
Crs\_Name

#### **Table dbo.Exams**

Crs\_ID  
Exam\_Date  
Exam\_ID

#### **Table dbo.ST\_Exam\_Grade**

Exam\_ID  
Grade  
ST\_ID

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

ST\_Fname  
ST\_ID  
ST\_Lname

## **Procedure dbo.R3\_Ins\_Crs**

Parameter	Data Type	Default	Is Output
@Ins_ID	int		

### **Result:**

Column	Data Type	Nullable
INS_ID	int	
INS_Name	nvarchar(50)	
Crs_Name	nvarchar(50)	X
NoOfStudents	int	X

### **Uses:**

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

Crs\_ID  
Crs\_Name

#### **Table dbo.INS\_Crs**

Crs\_ID  
INS\_ID

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

INS\_ID  
INS\_Name

#### **Table dbo.ST\_Crs**

Crs\_ID  
ST\_ID

## **Procedure dbo.R4\_Crs\_Top**

Parameter	Data Type	Default	Is Output
@Crs_ID	int		

### **Result:**

Column	Data Type	Nullable
Crs_ID	int	
Crs_Name	nvarchar(50)	
Topic_Name	nvarchar(50)	

### **Uses:**

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

Crs\_ID  
Crs\_Name  
Topic\_ID

#### **Table dbo.Topics**

Topic\_ID  
Topic\_Name



## **Procedure dbo.R5\_Exam\_Quests**

Parameter	Data Type	Default	Is Output
@Exam_No	int		

### **Result:**

Column	Data Type	Nullable
Exam_ID	int	
Quest_Num	int	X
Quest_Type	nvarchar(50)	
Quest_Cont	nvarchar(200)	
Option 1	nvarchar(50)	X
Option 2	nvarchar(50)	X
Option 3	nvarchar(50)	X
Option 4	nvarchar(50)	X

### **Uses:**

#### **Table dbo.Choices**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

#### **Table dbo.Questions**

Quest\_Cont  
Quest\_ID  
Quest\_Type

#### **Table dbo.ST\_Exam\_Quest**

Exam\_ID  
Quest\_ID  
Quest\_Num

## **Procedure dbo.R6\_Stud\_Exam\_Quests**

Parameter	Data Type	Default	Is Output
@Stud_ID	int		
@Exam_No	int		

### **Result:**

Column	Data Type	Nullable
Exam_ID	int	
ST_ID	int	
Student Full Name	nvarchar(101)	
Quest_Num	int	X
Quest_Type	nvarchar(50)	
Quest_Cont	nvarchar(200)	
Option 1	nvarchar(50)	X
Option 2	nvarchar(50)	X
Option 3	nvarchar(50)	X
Option 4	nvarchar(50)	X
ST_Answer	nvarchar(50)	X
ST_Answer_content	nvarchar(50)	

### **Uses:**

#### **Table dbo.Choices**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

#### **Table dbo.Questions**

Quest\_Cont  
Quest\_ID  
Quest\_Type

#### **Table dbo.ST\_Exam\_Quest**

Exam\_ID  
Quest\_ID  
Quest\_Num  
ST\_Answer  
ST\_ID

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

ST\_Fname  
ST\_ID  
ST\_Lname

## **Procedure dbo.select\_Choise**

Parameter	Data Type	Default	Is Output
@Quest_ID	int		
@Model_Ans_Num	int		

### **Result:**

Column	Data Type	Nullable
Quest_ID	int	
Model_Ans_Num	int	
Ans_Cont	nvarchar(50)	

### **Uses:**

#### **Table dbo.Choices**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

## **Procedure dbo.select\_course**

Parameter	Data Type	Default	Is Output
@Crs_id	int		

### **Result:**

Column	Data Type	Nullable
Crs_ID	int	
Crs_Name	nvarchar(50)	
Topic_ID	int	

### **Uses:**

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

Crs\_ID  
Crs\_Name  
Topic\_ID

## **Procedure dbo.select\_Departments**

Parameter	Data Type	Default	Is Output
@dept_id	int		

### **Result:**

Column	Data Type	Nullable
Dept_ID	int	
Dept_Name	nvarchar(50)	
Dept_Desc	nvarchar(50)	

### **Uses:**

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

Dept\_Desc  
Dept\_ID  
Dept\_Name

## **Procedure dbo.select\_instructors**

Parameter	Data Type	Default	Is Output
@INS_id	int		

### **Result:**

Column	Data Type	Nullable
INS_ID	int	
INS_Name	nvarchar(50)	
INS_Degree	nvarchar(50)	X
Dept_ID	int	
INS_Pass	nvarchar(50)	X

### **Uses:**

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

Dept\_ID  
INS\_Degree  
INS\_ID  
INS\_Name

## **Procedure dbo.select\_Question**

Parameter	Data Type	Default	Is Output
@Quest_id	int		

### **Result:**

Column	Data Type	Nullable
Quest_ID	int	
Quest_Type	nvarchar(50)	
Model_Ans_Num	int	
Quest_Cont	nvarchar(200)	
Crs_ID	int	X

### **Uses:**

#### **Table dbo.Questions**

Crs\_ID  
Model\_Ans\_Num  
Quest\_Cont  
Quest\_ID  
Quest\_Type

## **Procedure dbo.select\_student**

Parameter	Data Type	Default	Is Output
@ST_id	int		

### **Result:**

Column	Data Type	Nullable
ST_ID	int	
ST_Fname	nvarchar(50)	
ST_Lname	nvarchar(50)	
ST_Address	nvarchar(50)	
ST_DOB	date	
ST_Pass	nvarchar(8)	
ST_Phone	nvarchar(50)	
Dept_ID	int	
ST_pic	image	X

### **Uses:**

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

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone



## **Procedure dbo.select\_Topic**

Parameter	Data Type	Default	Is Output
@Topic_id	int		

### **Result:**

Column	Data Type	Nullable
Topic_ID	int	
Topic_Name	nvarchar(50)	

### **Uses:**

#### **Table dbo.Topics**

Topic\_ID  
Topic\_Name

## **Procedure dbo.Stud\_Grades**

Parameter	Data Type	Default	Is Output
@St_ID	int		

### **Result:**

Column	Data Type	Nullable
Crs_Name	nvarchar(50)	
Grade	int	

### **Uses:**

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

Crs\_ID  
Crs\_Name

#### **Table dbo.Exams**

Crs\_ID  
Exam\_ID

#### **Table dbo.ST\_Exam\_Grade**

Exam\_ID  
Grade  
ST\_ID

## **Procedure dbo.StudentExaminedCourses**

Parameter	Data Type	Default	Is Output
@St_ID	int		

### **Result:**

Column	Data Type	Nullable
Crs_ID	int	
Crs_Name	nvarchar(50)	

### **Uses:**

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

Crs\_ID  
CrS\_Name

#### **Table dbo.ST\_Crs**

Crs\_ID  
ST\_ID

## **Procedure dbo.StudentsForStaff**

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

### **Result:**

Column	Data Type	Nullable
ST_ID	int	
ST_Fname	nvarchar(50)	
ST_Lname	nvarchar(50)	
ST_Address	nvarchar(50)	
ST_DOB	date	
ST_Pass	nvarchar(8)	
ST_Phone	nvarchar(50)	
Dept_Name	nvarchar(50)	

### **Uses:**

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

Dept\_ID  
Dept\_Name

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

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

## Procedure **dbo.studLogin**

Parameter	Data Type	Default	Is Output
@St_ID	int		
@ST_Pass	nvarchar(8)		

### Result:

Column	Data Type	Nullable
ST_ID	int	
ST_Fname	nvarchar(50)	
ST_Lname	nvarchar(50)	
ST_Address	nvarchar(50)	
ST_DOB	date	
ST_Pass	nvarchar(8)	
ST_Phone	nvarchar(50)	
Dept_ID	int	
ST_pic	image	X

### Uses:

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

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

## **Procedure dbo.update\_Choice**

Parameter	Data Type	Default	Is Output
@Quest_ID	int		
@Model_Ans_Num	int		
@Ans_Cont	nvarchar(50)		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(21)	

### **Uses:**

#### **Table dbo.Choices**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

## **Procedure dbo.update\_Course**

Parameter	Data Type	Default	Is Output
@Crs_ID	int		
@Crs_name	nvarchar(50)		
@Topic_ID	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(21)	

### **Uses:**

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

Crs\_ID  
Crs\_Name  
Topic\_ID

## **Procedure dbo.update\_Department**

Parameter	Data Type	Default	Is Output
@dept_id	int		
@dept_name	nvarchar(50)		
@dept_desc	nvarchar(50)		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(24)	

### **Uses:**

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

Dept\_Desc  
Dept\_ID  
Dept\_Name



## **Procedure dbo.update\_instrucor**

Parameter	Data Type	Default	Is Output
@INS_ID	int		
@INS_Name	nvarchar(50)		
@INS_degree	nvarchar(50)		
@Dept_ID	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(25)	

### **Uses:**

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

Dept\_ID  
INS\_Degree  
INS\_ID  
INS\_Name

## **Procedure dbo.update\_Question**

Parameter	Data Type	Default	Is Output
@Quest_ID	int		
@Quest_Type	nvarchar(50)		
@Model_Ans_Num	int		
@Quest_Cont	nvarchar(200)		
@Crs_ID	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(23)	

### **Uses:**

#### **Table dbo.Questions**

Crs\_ID  
Quest\_Cont  
Quest\_ID  
Quest\_Type

## **Procedure dbo.Update\_ST\_Exam\_Quest**

Parameter	Data Type	Default	Is Output
@st_id	int		
@exam_id	int		
@Quest_No	int		
@St_Answer	int		

### **Uses:**

#### **Table dbo.ST\_Exam\_Quest**

Exam\_ID  
Quest\_ID  
ST\_Answer  
ST\_ID

## **Procedure dbo.Update\_ST\_Exam\_Quest\_ByNo\_V2**

Parameter	Data Type	Default	Is Output
@st_id	int		
@exam_id	int		
@Quest_No	int		
@St_Answer	int		

### **Uses:**

#### **Table dbo.ST\_Exam\_Quest**

Exam\_ID  
Quest\_Num  
ST\_Answer  
ST\_ID

## **Procedure dbo.update\_Student**

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@ST_Fname	nvarchar(50)		
@ST_Lname	nvarchar(50)		
@ST_Address	nvarchar(50)		
@ST_DOB	nvarchar(50)		
@ST_Pass	nvarchar(8)		
@ST_Phone	nvarchar(50)		
@Dept_ID	int		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(22)	

### **Uses:**

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

ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone

## **Procedure dbo.update\_Topic**

Parameter	Data Type	Default	Is Output
@Topic_ID	int		
@Topic_Name	nvarchar(50)		

### **Result:**

Column	Data Type	Nullable
(No column name)	varchar(20)	

### **Uses:**

#### **Table dbo.Topics**

Topic\_ID  
Topic\_Name

## **Procedure dbo.UpdateDeptForStaff**

Parameter	Data Type	Default	Is Output
@Dept_ID	int		
@Dept_Name	nvarchar(50)		
@Dept_Desc	nvarchar(50)		

### **Uses:**

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

Dept\_Desc  
Dept\_ID  
Dept\_Name

## **Procedure dbo.UpdateQuestionForStaff**

Parameter	Data Type	Default	Is Output
@Quest_ID	int		
@Quest_Type	nvarchar(50)		
@Model_Ans_Num	int		
@Quest_Cont	nvarchar(200)		
@Crs_Name	nvarchar(50)		
@Option1	nvarchar(50)		
@Option2	nvarchar(50)		
@Option3	nvarchar(50)		
@Option4	nvarchar(50)		

### **Uses:**

#### **Table dbo.Choices**

Ans\_Cont  
Model\_Ans\_Num  
Quest\_ID

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

Crs\_ID  
Crs\_Name

#### **Table dbo.Questions**

Crs\_ID  
Model\_Ans\_Num  
Quest\_Cont  
Quest\_ID  
Quest\_Type



## **Procedure dbo.UpdateStudentForStaff**

Parameter	Data Type	Default	Is Output
@St_ID	int		
@St_Fname	nvarchar(50)		
@St_Lname	nvarchar(50)		
@St_Address	nvarchar(50)		
@St_DOB	date		
@st_pass	nvarchar(8)		
@St_Phone	nvarchar(50)		
@Dept_Name	nvarchar(50)		
@St_Pic	image		

### **Uses:**

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

Dept\_ID  
Dept\_Name

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

Dept\_ID  
ST\_Address  
ST\_DOB  
ST\_Fname  
ST\_ID  
ST\_Lname  
ST\_Pass  
ST\_Phone  
ST\_pic