ExaminationSystem

Tables:

Views:

Procedures:

Functions:

Tables:

Table dbo.Course

	Column	Data Type	Identity	Nullable	Default
PK	Crs_Id	int	X		
	course_Name	nvarchar(100)			
	Duration	int		X	

Indexes:

> **PK_Course** *(Primary Key) (Clustered)*
>
>> Crs_Id

Referenced by:

> **dbo.Ins_Course** *(Crs_Id)*
>
> **dbo.Question** *(Crs_Id)*
>
> **dbo.Stu_course** *(Crs_Id)*
>
> **dbo.Topic** *(course_Id -> Crs_Id)*

Used by:

> **Procedure dbo.delete_course**
>
> **Procedure dbo.getStuCrsGrad**
>
> **Procedure dbo.insert_courses**
>
> **Procedure dbo.update_course**

Table dbo.Department

	Column	Data Type	Identity	Nullable	Default
PK	Dept_Id	int	X		
	Dept_Name	nvarchar(100)			
	Description	nvarchar(100)		X	
	Location	nvarchar(100)		X	

Indexes:

> **PK_Department** *(Primary Key) (Clustered)*
>
>> Dept_Id

Referenced by:

> **dbo.Instructor** *(Dept_Id)*
>
> **dbo.Student** *(Dept_id -> Dept_Id)*

Used by:

> **Procedure dbo.instdept**

Table dbo.Exam

	Column	Data Type	Identity	Nullable	Default
PK	Exam_Id	int	X		

			Data Type			
	N_TF		int			
	N_Mcq		int			
	mark		int			
	date		date		X	

Indexes:

> **PK_Exam** *(Primary Key) (Clustered)*
>
>> Exam_Id

Referenced by:

> **dbo.Student_Exam_Question** *(Exam_Id)*

Used by:

> **Procedure dbo.deleteExam**
>
> **Procedure dbo.genExam**
>
> **Procedure dbo.insertExam**
>
> **Procedure dbo.updateExam**

Table dbo.Ins_Course

	Column	Data Type	Identity	Nullable	Default
PK, FK	Ins_Id	int			
PK, FK	Crs_Id	int			

Indexes:

> **PK_Ins_Course** *(Primary Key) (Clustered)*
>
>> Ins_Id
>> Crs_Id

References:

> **dbo.Course** *(Crs_Id)*
>
> **dbo.Instructor** *(Ins_Id)*

Used by:

> **Procedure dbo.countStudentsINCourse**
>
> **Procedure dbo.delete_Ins_Crs**
>
> **Procedure dbo.insert_Ins_Crs**
>
> **Procedure dbo.Update_Ins_Crs**

Table dbo.Instructor

	Column	Data Type	Identity	Nullable	Default
PK	Ins_Id	int	X		
	Ins_Name	nvarchar(100)		X	
	Ins_Salary	money			
	Ins_Degree	nvarchar(100)		X	
FK	Dept_Id	int			
	mail	nvarchar(50)		X	
	password	nvarchar(50)		X	

Indexes:

>   **PK_Instructor** *(Primary Key) (Clustered)*

>>   Ins_Id

References:

>   **dbo.Department** *(Dept_Id)*

Referenced by:

>   **dbo.Ins_Course** *(Ins_Id)*

Table dbo.QestionAnswer

	Column	Data Type	Identity	Nullable	Default
PK	Ans_body	nvarchar(100)			
PK, FK	Q_Id	int			

Indexes:

>   **PK_QestionAnswer** *(Primary Key) (Clustered)*

>>   Ans_body
>>   Q_Id

References:

>   **dbo.Question** *(Q_Id)*

Used by:

>   **Procedure dbo.delete_answer**

>   **Procedure dbo.getQuestionBody**

>   **Procedure dbo.insert_questionAnswe**

>   **Procedure dbo.update_QuestionAanswer**

Table dbo.Question

	Column	Data Type	Identity	Nullable	Default
PK	Q_Id	int	X		
	Q_body	nvarchar(1000)			
	Q_Type	nvarchar(10)		X	
	mark	int		X	
	Right_Ans	nvarchar(50)			
FK	Crs_Id	int		X	

Indexes:

>   **PK_Question** *(Primary Key) (Clustered)*

>>   Q_Id

References:

>   **dbo.Course** *(Crs_Id)*

Referenced by:

>   **dbo.QestionAnswer** *(Q_Id)*

dbo.Student_Exam_Question *(Q_Id)*

Used by:

> **Procedure dbo.correctExam**
>
> **Procedure dbo.delete_Question**
>
> **Procedure dbo.getAnsewrExam**
>
> **Procedure dbo.getQuestionBody**
>
> **Procedure dbo.insert_question**
>
> **Procedure dbo.update_Question**

Table dbo.Stu_course

	Column	Data Type	Identity	Nullable	Default
PK, FK	St_Id	int			
PK, FK	Crs_Id	int			
	Grade	int			

Indexes:

> **PK_Stu_course** *(Primary Key) (Clustered)*
>
>> St_Id
>> Crs_Id

References:

> **dbo.Course** *(Crs_Id)*
>
> **dbo.Student** *(St_Id -> ST_Id)*

Used by:

> **Procedure dbo.correctExam**
>
> **Procedure dbo.countStudentsINCourse**
>
> **Procedure dbo.delete_Stu_Crs**
>
> **Procedure dbo.getStuCrsGrad**
>
> **Procedure dbo.getStudentGerads**
>
> **Procedure dbo.insert_Stu_Crs**
>
> **Procedure dbo.Update_Stu_Crs**

Table dbo.Student

	Column	Data Type	Identity	Nullable	Default
PK	ST_Id	int	X		
	St_Fname	nvarchar(100)		X	
	St_Lname	nvarchar(100)		X	
	St_Address	nvarchar(100)		X	
	St_Age	int		X	
FK	Dept_id	int			
	Mail	nvarchar(50)		X	
	password	nvarchar(50)		X	

Indexes:

    PK_Student *(Primary Key) (Clustered)*

        ST_Id

References:

    dbo.Department *(Dept_id -> Dept_Id)*

Referenced by:

    dbo.Stu_course *(St_Id -> ST_Id)*

    dbo.Student_Exam_Question *(St_Id -> ST_Id)*

Table dbo.Student_Exam_Question

	Column	Data Type	Identity	Nullable	Default
PK, FK	Q_Id	int			
PK, FK	Exam_Id	int			
FK	St_Id	int		X	
	Stud_Ans	nvarchar(100)		X	

Indexes:

    PK_Student_Exam_Question *(Primary Key) (Clustered)*

        Q_Id
        Exam_Id

References:

    dbo.Exam *(Exam_Id)*

    dbo.Question *(Q_Id)*

    dbo.Student *(St_Id -> ST_Id)*

Used by:

    Procedure dbo.assignAnswer

    Procedure dbo.correctExam

    Procedure dbo.delete_seq

    Procedure dbo.genExam

    Procedure dbo.getAnsewrExam

    Procedure dbo.getQuestionBody

    Procedure dbo.update_seq

Table dbo.Topic

	Column	Data Type	Identity	Nullable	Default
PK	Top_Id	int	X		
	Top_Name	nvarchar(100)		X	
FK	course_Id	int			

Indexes:

PK_Topic *(Primary Key) (Clustered)*

    Top_Id

References:

dbo.Course *(course_Id -> Crs_Id)*

Used by:

Procedure dbo.insert_topic

Views:

View dbo.getRandomNumber

Column	Data Type	Nullable
randomId	uniqueidentifier	X

Used by:

       Function dbo.getQuestion

Procedures:

Procedure dbo.assignAnswer

Parameter	Data Type	Default	Is Output
@questionAnswer	QuestionAnswer		
@stid	int		
@examId	int		

Uses:

>   Table dbo.Student_Exam_Question

Procedure dbo.correctExam

Parameter	Data Type	Default	Is Output
@examId	int		
@stId	int		
@studentGrade	int		X

Result:

Column	Data Type	Nullable
(No column name)	int	X

Uses:

>   Table dbo.Question

>   Table dbo.Stu_course

>   Table dbo.Student_Exam_Question

Procedure dbo.countStudentsINCourse

Parameter	Data Type	Default	Is Output
@insid	int		

Result:

Column	Data Type	Nullable
students	int	X
course_Name	nvarchar(100)	

Uses:

>   Table dbo.Ins_Course

>   Table dbo.Stu_course

Procedure dbo.deledept

Parameter	Data Type	Default	Is Output
@deptid	int		

Result:

Column	Data Type	Nullable

(No column name)	varchar(12)	

Procedure dbo.delete_answer

Parameter	Data Type	Default	Is Output
@Question_id	int		

Result:

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

Uses:

Table dbo.QestionAnswer

Procedure dbo.delete_course

Parameter	Data Type	Default	Is Output
@crs_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Uses:

Table dbo.Course

Procedure dbo.delete_Ins_Crs

Parameter	Data Type	Default	Is Output
@Ins_id	int		
@Crs_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(14)	

Uses:

Table dbo.Ins_Course

Procedure dbo.delete_instructor

Parameter	Data Type	Default	Is Output
@insid	int		

Result:

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

Procedure dbo.delete_Question

Parameter	Data Type	Default	Is Output
@Q_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Uses:

> Table dbo.Question

Procedure dbo.delete_seq

Parameter	Data Type	Default	Is Output
@ex_id	int		
@ques_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Uses:

> Table dbo.Student_Exam_Question

Procedure dbo.delete_Stu_Crs

Parameter	Data Type	Default	Is Output
@Stu_id	int		
@Crs_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(14)	

Uses:

> Table dbo.Stu_course

Procedure dbo.delete_topic

Parameter	Data Type	Default	Is Output
@top_id	int		

Result:

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

Procedure dbo.deleteExam

Parameter	Data Type	Default	Is Output
@ID	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(17)	

Uses:

> **Table dbo.Exam**

Procedure dbo.deleteStudent

Parameter	Data Type	Default	Is Output
@stu_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(17)	

Procedure dbo.deptstudent

Parameter	Data Type	Default	Is Output
@d_id	int		

Result:

Column	Data Type	Nullable
ST_Id	int	
St_Fname	nvarchar(100)	X
St_Lname	nvarchar(100)	X
St_Address	nvarchar(100)	X
St_Age	int	X
Dept_id	int	
Mail	nvarchar(50)	X
password	nvarchar(50)	X

Procedure dbo.genExam

Parameter	Data Type	Default	Is Output
@TF_number	int		
@MCQ_number	int		
@Crs_number	int		

Uses:

> **Function dbo.getQuestion**
>
> **Table dbo.Exam**
>
> **Table dbo.Student_Exam_Question**

Procedure dbo.getAnsewrExam

Parameter	Data Type	Default	Is Output
@stId	int		
@exam_Id	int		

Result:

Column	Data Type	Nullable
QuestionBody	nvarchar(1000)	
StudentAnswer	nvarchar(100)	X
RightAnswer	nvarchar(50)	

Uses:

> **Table dbo.Question**
>
> **Table dbo.Student_Exam_Question**

Procedure dbo.getQuestionBody

Parameter	Data Type	Default	Is Output
@examId	int		

Result:

Column	Data Type	Nullable
Q_Id	int	
Q_body	nvarchar(1000)	
Ans_body	nvarchar(100)	

Uses:

> **Table dbo.QestionAnswer**
>
> **Table dbo.Question**
>
> **Table dbo.Student_Exam_Question**

Procedure dbo.getStuCrsGrad

Parameter	Data Type	Default	Is Output
@stu_id	int		

Result:

Column	Data Type	Nullable
Grade	int	
course_Name	nvarchar(100)	
per_cent	int	

Uses:

> **Table dbo.Course**
>
> **Table dbo.Stu_course**

Procedure dbo.getStudentGerads

Parameter	Data Type	Default	Is Output

@stId	int		

Result:

Column	Data Type	Nullable
grade_in_percent	int	

Uses:

> **Table dbo.Stu_course**

Procedure dbo.getTopic

Parameter	Data Type	Default	Is Output
@crsId	int		

Result:

Column	Data Type	Nullable
Top_Name	nvarchar(100)	X

Procedure dbo.insert_courses

Parameter	Data Type	Default	Is Output
@crsname	nvarchar(100)		
@crsduration	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Uses:

> **Table dbo.Course**

Procedure dbo.insert_Ins_Crs

Parameter	Data Type	Default	Is Output
@Ins_id	int		
@Crs_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(14)	

Uses:

> **Table dbo.Ins_Course**

Procedure dbo.insert_question

Parameter	Data Type	Default	Is Output
@questionbody	nvarchar(100)		
@questiontype	nvarchar(10)		

@questionmark	int		
@rigtanswer	nvarchar(50)		
@crs_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Uses:

Table dbo.Question

Procedure dbo.insert_questionAnswe

Parameter	Data Type	Default	Is Output
@Q_id	int		
@answer_Body	varchar(50)		

Uses:

Table dbo.QestionAnswer

Procedure dbo.insert_Stu_Crs

Parameter	Data Type	Default	Is Output
@Stu_id	int		
@Crs_id	int		
@grade	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(14)	

Uses:

Table dbo.Stu_course

Procedure dbo.insert_topic

Parameter	Data Type	Default	Is Output
@crs_id	int		
@topicname	nvarchar(50)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Uses:

Table dbo.Topic

Procedure dbo.insertExam

Parameter	Data Type	Default	Is Output
@N_tf	int		
@N_Mcq	int		
@Date	date	Null	
@mark	int		

Uses:

  Table dbo.Exam

Procedure dbo.insertStudent

Parameter	Data Type	Default	Is Output
@Fname	varchar(100)		
@Lname	varchar(100)		
@Address	varchar(100)		
@age	int		
@dept_id	int		

Procedure dbo.insinst

Parameter	Data Type	Default	Is Output
@insid	int		
@insname	nvarchar(100)		
@inssalary	money		
@insdegree	nvarchar(100)		
@deptid	int		

Procedure dbo.instdept

Parameter	Data Type	Default	Is Output
@deptname	nvarchar(100)		
@deptdescription	nvarchar(100)		
@deptlocation	nvarchar(100)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Uses:

  Table dbo.Department

Procedure dbo.instructor_delete

Parameter	Data Type	Default	Is Output
@insid	int		

Result:

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

Procedure dbo.insupda

Parameter	Data Type	Default	Is Output
@insid	int		
@insname	nvarchar(100)		
@inssalary	money		
@insdegree	nvarchar(100)		
@deptid	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Procedure dbo.update_course

Parameter	Data Type	Default	Is Output
@crs_id	int		
@crs_name	nvarchar(100)		
@duration	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Uses:

> Table dbo.Course

Procedure dbo.Update_Ins_Crs

Parameter	Data Type	Default	Is Output
@OldIns_id	int		
@OldCrs_id	int		
@NewIns_id	int		
@NewCrs_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(14)	

Uses:

> Table dbo.Ins_Course

Procedure dbo.update_Question

Parameter	Data Type	Default	Is Output
@q_id	int		
@q_body	nvarchar(1000)		
@Q_type	nvarchar(10)		
@mark	int		
@ra	nvarchar(50)		
@c_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Uses:

      Table dbo.Question

Procedure dbo.update_QuestionAanswer

Parameter	Data Type	Default	Is Output
@answer_id	int		
@Q_body	varchar(1)		

Result:

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

Uses:

      Table dbo.QestionAnswer

Procedure dbo.update_seq

Parameter	Data Type	Default	Is Output
@ex_id	int		
@ques_id	int		
@st_id	int		
@st_answer	nvarchar(100)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Uses:

      Table dbo.Student_Exam_Question

Procedure dbo.Update_Stu_Crs

Parameter	Data Type	Default	Is Output
@OldStu_id	int		
@OldCrs_id	int		
@NewStu_id	int		
@NewCrs_id	int		
@grade	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(14)	

Uses:

      Table dbo.Stu_course

Procedure dbo.update_topic

Parameter	Data Type	Default	Is Output
@top_id	int		
@top_name	nvarchar(100)		
@crs_id	int		

Result:

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

Procedure dbo.updatedept

Parameter	Data Type	Default	Is Output
@deptid	int		
@deptname	nvarchar(100)		
@deptdescription	nvarchar(100)		
@deptlocation	nvarchar(100)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(5)	

Procedure dbo.updateExam

Parameter	Data Type	Default	Is Output
@ID	int		
@N_tf	int		
@N_Mcq	int		
@Date	date		
@mark	int		

Result:

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

Uses:

      Table dbo.Exam

Procedure dbo.UpdateStudent

Parameter	Data Type	Default	Is Output
@stu_id	int		
@Fname	varchar(100)		
@Lname	varchar(100)		
@Address	varchar(100)		
@age	int		

@dept_id	int		

Result:

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

Functions:

Inline Table Valued Function dbo.getQuestion

Parameter	Data Type	Default
@numOfquestions	int	
@crs_id	int	
@typeQ	nvarchar(10)	

Result:

Column	Data Type	Nullable
Q_Id	int	

Used by:

Procedure dbo.genExam

Uses:

View dbo.getRandomNumber