Examination_System

Tables:

Views:

Procedures:

Functions:

Tables:

Table dbo.All_Questions *(14 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Q_Id	int			
	Q_Type	varchar(10)		X	
	Q_body	varchar(200)		X	
FK	Q_RightAnswer	int			
FK	Course_ID	int			

Indexes:

> **PK_All_Questions** *(Primary Key) (Clustered)*
>
>> Q_Id

References:

> **dbo.Courses** *(Course_ID -> Course_Id)*
>
> **dbo.Q_ans** *(Q_RightAnswer -> ans_id)*

Referenced by:

> **dbo.Exam_Questions** *(QE_id -> Q_Id)*
>
> **dbo.Q_Options** *(question_id -> Q_Id)*
>
> **dbo.Student_Answer** *(Q_Id)*

Used by:

> **Procedure dbo.addOneChoice**
>
> **Procedure dbo.createExam**
>
> **Procedure dbo.DeleteCourses**
>
> **Procedure dbo.deleteOption**
>
> **Procedure dbo.DeleteQuestion**
>
> **Procedure dbo.ExamQuestion**
>
> **Procedure dbo.getStudentAns**
>
> **Procedure dbo.insertQuestion**
>
> **Procedure dbo.SelectFromAllQuestions**
>
> **Procedure dbo.UpdateQuestion**

Table dbo.Courses *(6 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Course_Id	int			
	Course_Name	varchar(50)		X	
	Course_Duration	int		X	
	Course_Description	varchar(50)		X	
FK	Topic_Id	int		X	

Indexes:

PK_Courses *(Primary Key) (Clustered)*

Course_Id

References:

dbo.Topic *(Topic_Id)*

Referenced by:

dbo.All_Questions *(Course_ID -> Course_Id)*

dbo.Exams *(course_id -> Course_Id)*

dbo.Instr_Course *(Course_Id)*

dbo.Student_Course *(Course_Id)*

Used by:

Function dbo.getTopicId

Procedure dbo.AddExam

Procedure dbo.CourseData

Procedure dbo.DeleteCourses

Procedure dbo.DeleteTopic

Procedure dbo.DisplayCourses

Procedure dbo.DisplayOneCourse

Procedure dbo.genExam

Procedure dbo.InsertCourse

Procedure dbo.InsertinstrCourses

Procedure dbo.insertStudentCourse

Procedure dbo.studentGrades

Procedure dbo.TopicCourses

Procedure dbo.UpdateCourse

Procedure dbo.UpdateCourseInstr

Procedure dbo.UpdateInstrCourse

Procedure dbo.UpdateQuestion

Table dbo.Departments *(6 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Dept_Id	int			
	Dept_Name	varchar(20)		X	
	Dept_location	varchar(20)		X	

Indexes:

PK_Departments *(Primary Key) (Clustered)*

Dept_Id

Referenced by:

dbo.**Instructors** *(Dept_Id)*

dbo.**Students** *(Dept_Id)*

Used by:

Procedure dbo.**DeleteDept**

Procedure dbo.**DisplayDepartments**

Procedure dbo.**DisplayOneDept**

Procedure dbo.**InsertDept**

Procedure dbo.**insertInstructor**

Procedure dbo.**insertStudent**

Procedure dbo.**UpdateDept**

Procedure dbo.**updateInstructor**

Procedure dbo.**upDateStudentDepartment**

Table dbo.Exam_Questions *(7 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	QE_id	int			
PK, FK	exam_id	int			

Indexes:

PK_Exam_Questions *(Primary Key) (Clustered)*

QE_id
exam_id

References:

dbo.**All_Questions** *(QE_id -> Q_Id)*

dbo.**Exams** *(exam_id -> Exam_Id)*

Triggers:

stopExamQuestUpdating *(Instead Of Update)*

Used by:

Procedure dbo.**createExam**

Procedure dbo.**DeleteExam**

Procedure dbo.**deleteExamQuestions**

Procedure dbo.**DeleteQuestion**

Procedure dbo.**ExamQuestion**

Table dbo.Exams *(2 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Exam_Id	int	X		
	Exam_Duration	int		X	
	Exam_Date	date		X	CONVERT([date],getdate())

	Column	Data Type	Identity	Nullable	Default
	Exam_time	time		X	
FK	course_id	int		X	
	Exam_place	varchar(20)		X	

Indexes:

PK_Exams *(Primary Key) (Clustered)*

Exam_Id

References:

dbo.Courses *(course_id -> Course_Id)*

Referenced by:

dbo.Exam_Questions *(exam_id -> Exam_Id)*

dbo.Student_Answer *(Exam_Id)*

dbo.students_Exam *(Exam_ID -> Exam_Id)*

Triggers:

stopExamUpdating *(Instead Of Update)*

Used by:

Function dbo.getCourseFromExam

Procedure dbo.AddExam

Procedure dbo.calResult

Procedure dbo.createExam

Procedure dbo.DeleteExam

Procedure dbo.genExam

Procedure dbo.showExam

Table dbo.Instr_Course *(6 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	Instr_Id	int			
PK, FK	Course_Id	int			
	Evaluation	varchar(50)		X	

Indexes:

PK_Instr_Course *(Primary Key) (Clustered)*

Instr_Id
Course_Id

References:

dbo.Courses *(Course_Id)*

dbo.Instructors *(Instr_Id)*

Used by:

Procedure dbo.CourseData

Procedure dbo.DeleteCourses

Procedure dbo.DeleteinstrCourses

Procedure dbo.deleteInstructor

Procedure dbo.DisplayinstrCourses

Procedure dbo.DisplayOneinstrCourses

Procedure dbo.InsertinstrCourses

Procedure dbo.UpdateCourseInstr

Procedure dbo.UpdateInstrCourse

Table dbo.Instructors *(5 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Instr_Id	int			
	F_Name	varchar(20)		X	
	L_Name	varchar(20)		X	
	Salary	int		X	
	Age	int		X	
FK	Dept_Id	int		X	

Indexes:

PK_Instructors *(Primary Key) (Clustered)*

Instr_Id

References:

dbo.Departments *(Dept_Id)*

Referenced by:

dbo.Instr_Course *(Instr_Id)*

Used by:

Procedure dbo.CourseData

Procedure dbo.DeleteDept

Procedure dbo.deleteInstructor

Procedure dbo.InsertinstrCourses

Procedure dbo.insertInstructor

Procedure dbo.showAllInstructors

Procedure dbo.showOneInstr

Procedure dbo.UpdateCourseInstr

Procedure dbo.UpdateInstrCourse

Procedure dbo.updateInstructor

Table dbo.Q_ans *(15 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	ans_id	int			

	ans_description	nchar(100)		X	

Indexes:

PK_Q_ans *(Primary Key) (Clustered)*

ans_id

Referenced by:

dbo.All_Questions *(Q_RightAnswer -> ans_id)*

dbo.Q_Options *(option_id -> ans_id)*

Used by:

Procedure dbo.addOneChoice

Procedure dbo.addOption

Procedure dbo.deleteOption

Procedure dbo.getStudentAns

Procedure dbo.insertQuestion

Procedure dbo.showAllOptions

Procedure dbo.showQuestionChoises

Procedure dbo.updateOption

Procedure dbo.UpdateQuestion

View dbo.getQA

View dbo.x

Table dbo.Q_Options *(35 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	question_id	int			
PK, FK	option_id	int			

Indexes:

PK_Q_Options_1 *(Primary Key) (Clustered)*

question_id
option_id

References:

dbo.All_Questions *(question_id -> Q_Id)*

dbo.Q_ans *(option_id -> ans_id)*

Triggers:

stopUpdatingChoices *(Instead Of Update)*

Used by:

Procedure dbo.addOneChoice

Procedure dbo.deleteAllchoices

Procedure dbo.deleteOnechoice

Procedure dbo.deleteOption

Procedure dbo.displayOptions

Procedure dbo.showQuestionChoises

Table dbo.Student_Answer *(3 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	Exam_Id	int			
PK, FK	Q_Id	int			
PK, FK	Student_Id	int			
	Student_Answer	varchar(200)		X	
	marks	int		X	

Indexes:

PK_Student_Answer *(Primary Key) (Clustered)*

Exam_Id
Q_Id
Student_Id

References:

dbo.All_Questions *(Q_Id)*

dbo.Exams *(Exam_Id)*

dbo.Students *(Student_Id)*

Triggers:

triggerPreventinsertDuplicateAnswers *(After Insert)*

triggerPreventUpdateAnswer *(After Update)*

Used by:

Procedure dbo.calResult

Procedure dbo.DeleteExam

Procedure dbo.deleteExamQuestions

Procedure dbo.DeleteStudent

Procedure dbo.DeleteStudentAns

Procedure dbo.getStudentAns

Procedure dbo.insertAllAnswers

Table dbo.Student_Course *(9 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	Student_Id	int			
PK, FK	Course_Id	int			
	Grade	int		X	

Indexes:

PK_Student_Course *(Primary Key) (Clustered)*

        Student_Id
        Course_Id

References:

    dbo.Courses *(Course_Id)*

    dbo.Students *(Student_Id)*

Used by:

    Procedure dbo.calResult

    Procedure dbo.CourseData

    Procedure dbo.DeleteCourses

    Procedure dbo.DeleteStudent

    Procedure dbo.DeleteStudentCourse

    Procedure dbo.insertStudentCourse

    Procedure dbo.studentGrades

Table dbo.Students *(9 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Student_Id	int			
	F_Name	varchar(20)		X	
	L_Name	varchar(20)		X	
	Age	int		X	
	Address	varchar(50)		X	
FK	Dept_Id	int		X	

Indexes:

    PK_Students *(Primary Key) (Clustered)*

        Student_Id

References:

    dbo.Departments *(Dept_Id)*

Referenced by:

    dbo.Student_Answer *(Student_Id)*

    dbo.Student_Course *(Student_Id)*

    dbo.students_Exam *(St_ID -> Student_Id)*

Used by:

    Procedure dbo.calResult

    Procedure dbo.DeleteDept

    Procedure dbo.DeleteStudent

    Procedure dbo.insertStudent

    Procedure dbo.insertStudentCourse

Procedure dbo.showAllStudents

Procedure dbo.showDeprtStudent

Procedure dbo.showOneStudent

Procedure dbo.upDateStudentAddress

Procedure dbo.upDateStudentAge

Procedure dbo.upDateStudentDepartment

Procedure dbo.upDateStudentName

Table dbo.students_Exam *(1 row)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	Exam_ID	int			
PK, FK	St_ID	int			

Indexes:

PK_students_Exam *(Primary Key) (Clustered)*

Exam_ID
St_ID

References:

dbo.Exams *(Exam_ID -> Exam_Id)*

dbo.Students *(St_ID -> Student_Id)*

Used by:

Procedure dbo.DeleteExam

Procedure dbo.deleteExamQuestions

Procedure dbo.DeleteStudent

Procedure dbo.insertAllAnswers

Table dbo.Topic *(6 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Topic_Id	int			
	Topic_Name	varchar(20)		X	

Indexes:

PK_Topic *(Primary Key) (Clustered)*

Topic_Id

Referenced by:

dbo.Courses *(Topic_Id)*

Used by:

Procedure dbo.DeleteTopic

Procedure dbo.InsertCourse

Procedure dbo.insertTopic

Procedure dbo.showAllTopics

Procedure dbo.showOneTopic

Procedure dbo.UpdateCourse

Procedure dbo.updateTopic

Views:

View dbo.getQA

Column	Data Type	Nullable
Q_Id	int	
Q_Type	varchar(10)	X
Q_body	varchar(200)	X
Q_RightAnswer	varchar(200)	X
Course_ID	int	X
ans_id	int	
ans_Description	nchar(100)	X

Used by:

      Procedure dbo.insertAllAnswers

Uses:

      Table dbo.Q_ans

View dbo.x

Column	Data Type	Nullable
Q_Id	int	
Q_Type	varchar(10)	X
Q_body	varchar(200)	X
Q_RightAnswer	varchar(200)	X
Course_ID	int	X
ans_id	int	
ans_Description	nchar(100)	X

Uses:

      Table dbo.Q_ans

Procedures:

Procedure dbo.AddExam

Parameter	Data Type	Default	Is Output
@courseID	int		
@loc	varchar(20)	'LAb4'	
@Date	date	NULL	
@time	time	'12:00:00'	
@dur	int	2	

Result:

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

Used by:

>   Procedure dbo.genExam

Uses:

>   Table dbo.Courses

>   Table dbo.Exams

Procedure dbo.addOneChoice

Parameter	Data Type	Default	Is Output
@QID	int		
@ansID	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(37)	

Uses:

>   Table dbo.All_Questions

>   Table dbo.Q_ans

>   Table dbo.Q_Options

Procedure dbo.addOption

Parameter	Data Type	Default	Is Output
@ans	int		
@desc	varchar(100)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(36)	

Uses:

Procedure dbo.calResult

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

Result:

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

Uses:

Function dbo.getCourseFromExam

Table dbo.Exams

Table dbo.Student_Answer

Table dbo.Student_Course

Table dbo.Students

Procedure dbo.CourseData

Parameter	Data Type	Default	Is Output
@inst_id	int		

Result:

Column	Data Type	Nullable
Course_Name	varchar(50)	X
StudentsNum	int	X

Uses:

Table dbo.Courses

Table dbo.Instr_Course

Table dbo.Instructors

Table dbo.Student_Course

Procedure dbo.createExam

Parameter	Data Type	Default	Is Output
@examId	int		
@mcq	int		
@TrueFalse	int		

Result:

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

Used by:

      Procedure dbo.genExam

Uses:

      Table dbo.All_Questions

      Table dbo.Exam_Questions

      Table dbo.Exams

Procedure dbo.deleteAllchoices

Parameter	Data Type	Default	Is Output
@QID	int		

Uses:

      Table dbo.Q_Options

Procedure dbo.DeleteCourses

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(58)	

Uses:

      Table dbo.All_Questions

      Table dbo.Courses

      Table dbo.Instr_Course

      Table dbo.Student_Course

Procedure dbo.DeleteDept

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(38)	

Uses:

      Table dbo.Departments

      Table dbo.Instructors

      Table dbo.Students

Procedure dbo.DeleteExam

Parameter	Data Type	Default	Is Output
@EID	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(66)	

Uses:

Table dbo.Exam_Questions

Table dbo.Exams

Table dbo.Student_Answer

Table dbo.students_Exam

Procedure dbo.deleteExamQuestions

Parameter	Data Type	Default	Is Output
@EID	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(33)	

Uses:

Table dbo.Exam_Questions

Table dbo.Student_Answer

Table dbo.students_Exam

Procedure dbo.DeleteinstrCourses

Parameter	Data Type	Default	Is Output
@instrid	int		
@courseid	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(49)	

Uses:

Table dbo.Instr_Course

Procedure dbo.deleteInstructor

Parameter	Data Type	Default	Is Output
@ins_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(60)	

Uses:

> Table dbo.Instr_Course

> Table dbo.Instructors

Procedure dbo.deleteOnechoice

Parameter	Data Type	Default	Is Output
@QID	int		
@ans	int		

Uses:

> Table dbo.Q_Options

Procedure dbo.deleteOption

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(30)	

Uses:

> Table dbo.All_Questions

> Table dbo.Q_ans

> Table dbo.Q_Options

Procedure dbo.DeleteQuestion

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(31)	

Uses:

> Table dbo.All_Questions

> Table dbo.Exam_Questions

Procedure dbo.DeleteStudent

Parameter	Data Type	Default	Is Output

@id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(55)	

Uses:

> Table dbo.Student_Answer
>
> Table dbo.Student_Course
>
> Table dbo.Students
>
> Table dbo.students_Exam

Procedure dbo.DeleteStudentAns

Parameter	Data Type	Default	Is Output
@StID	int		
@Exam	int		

Uses:

> Table dbo.Student_Answer

Procedure dbo.DeleteStudentCourse

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

Uses:

> Table dbo.Student_Course

Procedure dbo.DeleteTopic

Parameter	Data Type	Default	Is Output
@id_topic	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(32)	

Uses:

> Table dbo.Courses
>
> Table dbo.Topic

Procedure dbo.DisplayCourses

> *No parameters.*

Result:

Column	Data Type	Nullable
Course_Id	int	
Course_Name	varchar(50)	X
Course_Duration	int	X
Course_Description	varchar(50)	X
Topic_Id	int	X

Uses:

> **Table dbo.Courses**

Procedure dbo.DisplayDepartments

> *No parameters.*

Result:

Column	Data Type	Nullable
Dept_Id	int	
Dept_Name	varchar(20)	X
Dept_location	varchar(20)	X

Uses:

> **Table dbo.Departments**

Procedure dbo.DisplayinstrCourses

> *No parameters.*

Result:

Column	Data Type	Nullable
Instr_Id	int	
Course_Id	int	
Evaluation	varchar(50)	X

Uses:

> **Table dbo.Instr_Course**

Procedure dbo.DisplayOneCourse

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
Course_Id	int	
Course_Name	varchar(50)	X
Course_Duration	int	X
Course_Description	varchar(50)	X
Topic_Id	int	X

Uses:

> **Table dbo.Courses**

Procedure dbo.DisplayOneDept

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
Dept_Id	int	
Dept_Name	varchar(20)	X
Dept_location	varchar(20)	X

Uses:

> **Table dbo.Departments**

Procedure dbo.DisplayOneinstrCourses

Parameter	Data Type	Default	Is Output
@instrid	int		
@courseid	int		

Result:

Column	Data Type	Nullable
Instr_Id	int	
Course_Id	int	
Evaluation	varchar(50)	X

Uses:

> **Table dbo.Instr_Course**

Procedure dbo.displayOptions

> *No parameters.*

Result:

Column	Data Type	Nullable
question_id	int	
option_id	int	

Uses:

> **Table dbo.Q_Options**

Procedure dbo.ExamQuestion

Parameter	Data Type	Default	Is Output
@EID	int		

Result:

Column	Data Type	Nullable
Q_Id	int	
Q_Type	varchar(10)	X
Q_body	varchar(200)	X
Q_RightAnswer	int	
Course_ID	int	

Uses:

> **Table dbo.All_Questions**
>
> **Table dbo.Exam_Questions**

Procedure dbo.genExam

Parameter	Data Type	Default	Is Output
@courseID	int		

Result:

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

Uses:

> **Procedure dbo.AddExam**
>
> **Procedure dbo.createExam**
>
> **Table dbo.Courses**
>
> **Table dbo.Exams**

Procedure dbo.getStudentAns

Parameter	Data Type	Default	Is Output
@Exam	int		
@stud	int		

Result:

Column	Data Type	Nullable
Q_body	varchar(200)	X
ans_description	nchar(100)	X
marks	int	X

Uses:

> **Table dbo.All_Questions**
>
> **Table dbo.Q_ans**
>
> **Table dbo.Student_Answer**

Procedure dbo.insertAllAnswers

Parameter	Data Type	Default	Is Output
@exam_id	int		

@st_id	int		
@answers	varchar(100)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(69)	

Uses:

> **Table dbo.Student_Answer**
>
> **Table dbo.students_Exam**
>
> **View dbo.getQA**

Procedure dbo.InsertCourse

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(50)		
@duration	int		
@desc	nvarchar(100)		
@topic_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(54)	X

Uses:

> **Table dbo.Courses**
>
> **Table dbo.Topic**

Procedure dbo.InsertDept

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

Result:

Column	Data Type	Nullable
(No column name)	varchar(57)	X

Uses:

> **Table dbo.Departments**

Procedure dbo.InsertinstrCourses

Parameter	Data Type	Default	Is Output
@instrid	int		
@courseid	int		
@eval	varchar(50)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(51)	

Uses:

> Table dbo.Courses
>
> Table dbo.Instr_Course
>
> Table dbo.Instructors

Procedure dbo.insertInstructor

Parameter	Data Type	Default	Is Output
@ins_id	int		
@ins_fname	varchar(50)		
@ins_lname	varchar(50)		
@ins_salary	money		
@ins_age	int		
@dep_id	int		

Result:

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

Uses:

> Table dbo.Departments
>
> Table dbo.Instructors

Procedure dbo.insertQuestion

Parameter	Data Type	Default	Is Output
@q_id	int		
@q_type	varchar(10)	null	
@q_body	varchar(200)	null	
@rigth_answer	int	null	
@course_id	int	null	

Result:

Column	Data Type	Nullable
(No column name)	varchar(37)	

Uses:

> Table dbo.All_Questions
>
> Table dbo.Q_ans

Procedure dbo.insertStudent

Parameter	Data Type	Default	Is Output
@ID	int		

@fname	varchar(20)		
@lname	varchar(20)		
@age	int		
@add	varchar(20)		
@did	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(47)	

Uses:

> **Table dbo.Departments**
>
> **Table dbo.Students**

Procedure dbo.insertStudentCourse

Parameter	Data Type	Default	Is Output
@StID	int		
@course	int		

Result:

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

Uses:

> **Table dbo.Courses**
>
> **Table dbo.Student_Course**
>
> **Table dbo.Students**

Procedure dbo.insertTopic

Parameter	Data Type	Default	Is Output
@topic_id	int		
@topic_name	varchar(50)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(31)	

Uses:

> **Table dbo.Topic**

Procedure dbo.SelectFromAllQuestions

Parameter	Data Type	Default	Is Output
@projection	varchar(15)	null	
@q_id	int	null	
@q_type	varchar(10)	null	
@course_id	int	null	

Result:

Column	Data Type	Nullable
Q_Id	int	
Q_Type	varchar(10)	X
Q_body	varchar(200)	X
Q_RightAnswer	int	
Course_ID	int	

Uses:

> **Table dbo.All_Questions**

Procedure dbo.showAllInstructors

> *No parameters.*

Result:

Column	Data Type	Nullable
Instr_Id	int	
F_Name	varchar(20)	X
L_Name	varchar(20)	X
Salary	int	X
Age	int	X
Dept_Id	int	X

Uses:

> **Table dbo.Instructors**

Procedure dbo.showAllOptions

> *No parameters.*

Result:

Column	Data Type	Nullable
ans_id	int	
ans_description	nchar(100)	X

Uses:

> **Table dbo.Q_ans**

Procedure dbo.showAllStudents

> *No parameters.*

Result:

Column	Data Type	Nullable
Student_Id	int	
F_Name	varchar(20)	X
L_Name	varchar(20)	X
Age	int	X
Address	varchar(50)	X

Dept_Id	int	X

Uses:

      Table dbo.Students

Procedure dbo.showAllTopics

      No parameters.

Result:

Column	Data Type	Nullable
Topic_Id	int	
Topic_Name	varchar(20)	X

Uses:

      Table dbo.Topic

Procedure dbo.showDeprtStudent

Parameter	Data Type	Default	Is Output
@did	int		

Result:

Column	Data Type	Nullable
Student_Id	int	
F_Name	varchar(20)	X
L_Name	varchar(20)	X
Age	int	X
Address	varchar(50)	X
Dept_Id	int	X

Uses:

      Table dbo.Students

Procedure dbo.showExam

Parameter	Data Type	Default	Is Output
@EID	int		

Result:

Column	Data Type	Nullable
Exam_Id	int	
Exam_Duration	int	X
Exam_Date	date	X
Exam_time	time	X
course_id	int	X
Exam_place	varchar(20)	X

Uses:

Procedure dbo.showOneInstr

Parameter	Data Type	Default	Is Output
@ins_id	int		

Result:

Column	Data Type	Nullable
Instr_Id	int	
F_Name	varchar(20)	X
L_Name	varchar(20)	X
Salary	int	X
Age	int	X
Dept_Id	int	X

Uses:

Table dbo.Instructors

Procedure dbo.showOneStudent

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
Student_Id	int	
F_Name	varchar(20)	X
L_Name	varchar(20)	X
Age	int	X
Address	varchar(50)	X
Dept_Id	int	X

Uses:

Table dbo.Students

Procedure dbo.showOneTopic

Parameter	Data Type	Default	Is Output
@topic_id	int		

Result:

Column	Data Type	Nullable
Topic_Id	int	
Topic_Name	varchar(20)	X

Uses:

Table dbo.Topic

Procedure dbo.showQuestionChoises

Parameter	Data Type	Default	Is Output
@QID	int		

Result:

Column	Data Type	Nullable
ans_id	int	
ans_description	nchar(100)	X

Uses:

>**Table dbo.Q_ans**
>
>**Table dbo.Q_Options**

Procedure dbo.studentGrades

Parameter	Data Type	Default	Is Output
@stID	int		

Result:

Column	Data Type	Nullable
Course_Name	varchar(50)	X
(No column name)	int	

Uses:

>**Table dbo.Courses**
>
>**Table dbo.Student_Course**

Procedure dbo.TopicCourses

Parameter	Data Type	Default	Is Output
@topicID	int		

Result:

Column	Data Type	Nullable
Course_Id	int	
Course_Name	varchar(50)	X
Course_Duration	int	X
Course_Description	varchar(50)	X
Topic_Id	int	X

Uses:

>**Table dbo.Courses**

Procedure dbo.UpdateCourse

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(50)		
@duration	int		
@desc	nvarchar(100)		

@topic_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(47)	X

Uses:

> **Table dbo.Courses**

> **Table dbo.Topic**

Procedure dbo.UpdateCourseInstr

Parameter	Data Type	Default	Is Output
@Instrid	int		
@oldcourseid	int		
@newCourseID	int		
@eval	varchar(50)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(35)	

Uses:

> **Table dbo.Courses**

> **Table dbo.Instr_Course**

> **Table dbo.Instructors**

Procedure dbo.UpdateDept

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

Result:

Column	Data Type	Nullable
(No column name)	varchar(51)	X

Uses:

> **Table dbo.Departments**

Procedure dbo.UpdateInstrCourse

Parameter	Data Type	Default	Is Output
@oldInstrid	int		
@courseid	int		
@newInstID	int		
@eval	varchar(50)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(35)	

Uses:

Table dbo.Courses

Table dbo.Instr_Course

Table dbo.Instructors

Procedure dbo.updateInstructor

Parameter	Data Type	Default	Is Output
@ins_id	int		
@ins_fname	varchar(50)		
@ins_lname	varchar(50)		
@ins_salary	money		
@ins_age	int		
@dep_id	int		

Result:

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

Uses:

Table dbo.Departments

Table dbo.Instructors

Procedure dbo.updateOption

Parameter	Data Type	Default	Is Output
@ans	int		
@desc	varchar(100)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(40)	

Uses:

Table dbo.Q_ans

Procedure dbo.UpdateQuestion

Parameter	Data Type	Default	Is Output
@id	int		
@type	varchar(50)		
@body	varchar(200)		
@RA	int		
@course_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(49)	X

Uses:

> **Table dbo.All_Questions**
>
> **Table dbo.Courses**
>
> **Table dbo.Q_ans**

Procedure dbo.upDateStudentAddress

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

Result:

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

Uses:

> **Table dbo.Students**

Procedure dbo.upDateStudentAge

Parameter	Data Type	Default	Is Output
@age	int		
@id	int		

Result:

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

Uses:

> **Table dbo.Students**

Procedure dbo.upDateStudentDepartment

Parameter	Data Type	Default	Is Output
@did	int		
@id	int		

Result:

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

Uses:

> **Table dbo.Departments**

Table dbo.Students

Procedure dbo.upDateStudentName

Parameter	Data Type	Default	Is Output
@fname	varchar(20)		
@lname	varchar(20)		
@id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(27)	

Uses:

Table dbo.Students

Procedure dbo.updateTopic

Parameter	Data Type	Default	Is Output
@topic_id	int		
@topic_name	varchar(50)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(28)	

Uses:

Table dbo.Topic

Functions:

Scalar Function dbo.getCourseFromExam

Parameter	Data Type	Default
@exam_id	int	

Result:

Data Type	Nullable
int	X

Used by:

> **Procedure dbo.calResult**

Uses:

> **Table dbo.Exams**

Scalar Function dbo.getTopicId

Parameter	Data Type	Default
@topic	varchar(1)	

Result:

Data Type	Nullable
int	X

Uses:

> **Table dbo.Courses**