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

<u>ExaminationOnlineSystemDb</u>

Tables:

Views:

Procedures:

Tables:

Table dbo.ansewrsOfTheQuestion *(30 rows)*

The answers of the questions that the student had answered in his exam

	Column	Data Type	Identity	Nullable	Default
PK, FK	questionIdFK	int			
	One of the composite primary key, references to the Qs ID				
PK, FK	studentIdFK	int			
	One of the composite primary key, references to the student Id				
PK, FK	examIdFK	int			
	One of the composite primary key, references to the Exam Id				
	questionAnswer	nvarchar(50)			
	The student's answer to the question				
	gradeOfTheAnswer	int			
	The answers standard grade				

Indexes:

pk_qs_answer *(Primary Key) (Clustered)*

> questionIdFK
> studentIdFK
> examIdFK

References:

dbo.Exam *(examIdFK -> examId)*

dbo.Question *(questionIdFK -> questionId)*

dbo.Student *(studentIdFK -> studentId)*

Triggers:

Cant_Delete *(After Delete)*

Cant_Update *(Instead Of Update)*

Used by:

Procedure dbo.Exam_Answers

Procedure dbo.Exam_Correction

Procedure dbo.SelectStudentByID3

View dbo.Exam_question_And_ANSWERS

Table dbo.Course *(2 rows)*

The courses that we have in organization

	Column	Data Type	Identity	Nullable	Default
PK, UK	courseId	int	X		
	The primary key of the course				
	courseName	nvarchar(30)			
	The name of the course				

Indexes:

PK__Course__2AA84FD1504F2F69 *(Primary Key) (Clustered)*

> courseId

IndexOf_CourseName *(Unique)*

> courseId

Referenced by:

> **dbo.Exam** *(courseIdFK -> courseId)*
>
> **dbo.instructorTeachesCourse** *(courseIdFK -> courseId)*
>
> **dbo.Question** *(courseIdFK -> courseId)*
>
> **dbo.studentEnrollsInCourse** *(courseIdFK -> courseId)*
>
> **dbo.Topic** *(courseIdFK -> courseId)*

Used by:

> **Procedure dbo.course_Topics**
>
> **Procedure dbo.deleteSpecificCourse**
>
> **Procedure dbo.GenerateExam**
>
> **Procedure dbo.insertNewCourse**
>
> **Procedure dbo.InstractorByID3**
>
> **Procedure dbo.retrieveAllCourseData**
>
> **Procedure dbo.retrieveSpecificCourseData**
>
> **Procedure dbo.Select_Student_Grades**
>
> **Procedure dbo.SelectStudentByID3**
>
> **Procedure dbo.updateSpecificCourse**

Table dbo.Department *(4 rows)*

The departments of the organization

	Column	Data Type	Identity	Nullable	Default
PK	deptId	int	X		
	The primary key of the department table				
UK	deptName	nvarchar(30)			
	The name of the department				

Indexes:

> **PK__Departme__BE2D26B6C7DA3F4C** *(Primary Key) (Clustered)*
>
> > deptId
>
> **UQ__Departme__923D729D6273483C** *(Unique)*
>
> > deptName

Referenced by:

> **dbo.Instructor** *(deptIdFK -> deptId)*
>
> **dbo.Student** *(deptIdFK -> deptId)*

Used by:

> **Procedure dbo.AddStudent**
>
> **Procedure dbo.deleteSpecificDepartmentById**
>
> **Procedure dbo.deleteSpecificDepartmentByName**
>
> **Procedure dbo.insertNewDepartment**
>
> **Procedure dbo.insertSpecificInstructor**
>
> **Procedure dbo.retrieveDepartmentData**
>
> **Procedure dbo.retrieveDepartmentDataById**
>
> **Procedure dbo.retrieveDepartmentDataByName**
>
> **Procedure dbo.student_infromation**
>
> **Procedure dbo.updateDepartmentData**
>
> **Procedure dbo.updateSpecificInstructor**
>
> **Procedure dbo.UpdateStudentData**

Table dbo.Exam *(3 rows)*

> *The exams generated for the students*

	Column	Data Type	Identity	Nullable	Default
PK	examId	int	X		
	The primary key of the exam table				
	examTime	time		X	'0:45:0'
	The duration time of the exam that the student will have				
	totalExamGrade	int		X	
	The final grade of the exam				
FK	courseIdFK	int			
	Course Id as a Refernce (FK) to the Course table				

Indexes:

> **PK__Exam__A56D125F57A03E7E** *(Primary Key) (Clustered)*
>
> > examId

References:

> **dbo.Course** *(courseIdFK -> courseId)*

Referenced by:

> **dbo.ansewrsOfTheQuestion** *(examIdFK -> examId)*
>
> **dbo.examQuestions** *(examIdFK -> examId)*

Used by:

> **Procedure dbo.Exam_Correction**

Table dbo.examQuestions *(30 rows)*

> *The relationship between the exam and the question*

	Column	Data Type	Identity	Nullable	Default

			Identity	Nullable	Default
PK, FK	examIdFK	int			
	One of the composite primary key of that table references to the exam table				
PK, FK	questionIdFK	int			
	One of the composite primary key of that table references to the exam table				

Indexes:

> **pk_exam_qs** *(Primary Key) (Clustered)*
>
>> examIdFK
>> questionIdFK

References:

> **dbo.Exam** *(examIdFK -> examId)*
>
> **dbo.Question** *(questionIdFK -> questionId)*

Used by:

> **Procedure dbo.Exam_Answers**
>
> **Procedure dbo.GenerateExam**
>
> **View dbo.Exam_question**

Table dbo.Instructor *(2 rows)*

The table of the instructors in the organization

	Column	Data Type	Identity	Nullable	Default
PK	instId	int	X		
	The primary key of the instructor				
	instFName	nvarchar(30)			
	The first name of the instructor				
	instLName	nvarchar(30)			
	The last name of the instructor				
	instAddress	nvarchar(30)		X	'Cairo'
	The address of the instructor				
	instSalary	float		X	2000
	The salary of the instructor				
FK	supervisorId	int		X	
	The primary key of the supervisor refrences to the instructor Id as a self relation				
FK	deptIdFK	int			
	The dept id is a foregin key references to the the dept Id which the instructor is working for				
	workingHours	int		X	
	The working hours of the instructor				

Indexes:

> **PK__Instruct__980FD1D7DA27A069** *(Primary Key) (Clustered)*
>
>> instId

References:

> **dbo.Department** *(deptIdFK -> deptId)*
>
> **dbo.Instructor** *(supervisorId -> instId)*

Referenced by:

> **dbo.Instructor** *(supervisorId -> instId)*

dbo.**instructorTeachesCourse** *(instIdFK -> instId)*

Used by:

       Procedure dbo.deleteSpecificInstructor

       Procedure dbo.insertSpecificInstructor

       Procedure dbo.InstractorByID3

       Procedure dbo.retrieveAllInstructorsData

       Procedure dbo.updateSpecificInstructor

Table dbo.instructorTeachesCourse *(2 rows)*

The table of the instructors and their courses they teach (M:M Relationship)

	Column	Data Type	Identity	Nullable	Default
PK, FK	courseIdFK	int			
	The Course Id as a Reference (FK) from Course Table				
PK, FK	instIdFK	int			
	The instructor Id as a Reference (FK) from the Instructor table				

Indexes:

       pk_course_instructor *(Primary Key) (Clustered)*

           courseIdFK
           instIdFK

References:

       dbo.**Course** *(courseIdFK -> courseId)*

       dbo.**Instructor** *(instIdFK -> instId)*

Used by:

       Procedure dbo.InstractorByID3

Table dbo.Question *(40 rows)*

The questions of the courses which will be included in the exams

	Column	Data Type	Identity	Nullable	Default
PK	questionId	int	X		
	The primary key of the question table				
	question	nvarchar(255)		X	
	The question sentence				
	questionModelAnswer	nvarchar(20)			
	The model answer of the question				
	questionGrade	int			
	The standard grade of the question				
	questionType	nvarchar(30)			
	The type of the question that defines if the question is a (True or false question) or (Mcq one)				
FK	courseIdFK	int			
	The course Id is a foregin key refernces to the Course which the question belongs to				

Indexes:

> **PK__Question__6238D4B2C33A2716** *(Primary Key) (Clustered)*
>
> > questionId

References:

> **dbo.Course** *(courseIdFK -> courseId)*

Referenced by:

> **dbo.ansewrsOfTheQuestion** *(questionIdFK -> questionId)*
>
> **dbo.examQuestions** *(questionIdFK -> questionId)*
>
> **dbo.questionChoices** *(questionId)*

Used by:

> **Procedure dbo.crud_QuestionDelete**
>
> **Procedure dbo.crud_QuestionInsert**
>
> **Procedure dbo.crud_QuestionSelect**
>
> **Procedure dbo.crud_QuestionUpdate**
>
> **View dbo.Exam_question**
>
> **View dbo.Exam_question_And_ANSWERS**

Table dbo.questionChoices *(120 rows)*

> *The choices of the question*

	Column	Data Type	Identity	Nullable	Default
PK, FK	questionId	int			
One of the composite primary key of that table which references to the question table					
PK	questionChoice	nvarchar(30)			
One of the composite primary key of that table which is a choice of the question as (A, B, C, D.. etc)					
	choiceContent	nvarchar(255)			
The choice sentence of each question					

Indexes:

> **PK_questionChoices** *(Primary Key) (Clustered)*
>
> > questionId
> > questionChoice

References:

> **dbo.Question** *(questionId)*

Used by:

> **Procedure dbo.crud_QuestionChoicesDelete**
>
> **Procedure dbo.crud_QuestionInsert**
>
> **Procedure dbo.crud_QuestionUpdate**
>
> **View dbo.Exam_question**

Table dbo.Student *(5 rows)*

Student data

	Column	Data Type	Identity	Nullable	Default
PK	studentId	int	X		
	Student id primary key of the student table				
	studentFName	nvarchar(30)			
	Student's first name				
	studentLName	nvarchar(30)			
	Student's last name				
	studentAddress	nvarchar(30)		X	'Cairo'
	Student's address				
FK	deptIdFK	int			
	A foreign key which references to the department table that the student belongs to				

Indexes:

PK__Student__4D11D63CF6E0CD03 *(Primary Key) (Clustered)*

studentId

References:

dbo.Department *(deptIdFK -> deptId)*

Referenced by:

dbo.ansewrsOfTheQuestion *(studentIdFK -> studentId)*

dbo.studentEnrollsInCourse *(studentIdFK -> studentId)*

Used by:

Procedure dbo.AddStudent

Procedure dbo.DeleteStudent

Procedure dbo.RetriveAllStudentData

Procedure dbo.SelectStudent_ByDepNo

Procedure dbo.SelectStudentByID3

Procedure dbo.student_infromation

Procedure dbo.UpdateStudentData

Table dbo.studentEnrollsInCourse *(5 rows)*

Relation table from many to many relation between student and course

	Column	Data Type	Identity	Nullable	Default
PK, FK	studentIdFK	int			
	Primary key of student table				
PK, FK	courseIdFK	int			
	primary key of course table				
	grade	float		X	
	Student grade in a specific course				

Indexes:

      pk_student_course *(Primary Key) (Clustered)*

          studentIdFK
          courseIdFK

References:

      dbo.Course *(courseIdFK -> courseId)*

      dbo.Student *(studentIdFK -> studentId)*

Triggers:

      Delete_student_grade *(After Delete)*

Used by:

      Procedure dbo.Exam_Correction

      Procedure dbo.InstractorByID3

      Procedure dbo.Select_Student_Grades

      Procedure dbo.SelectStudentByID3

Table dbo.Topic *(8 rows)*

      Topic table which holds course's topics data

	Column	Data Type	Identity	Nullable	Default
PK	topicId	int	X		
	Topic id primary key of table				
	topicName	nvarchar(30)			
	Topic name like oop in c++ course				
FK	courseIdFK	int			
	Foregin key to course table because each course has many topics				

Indexes:

      PK__Topic__72C15B41F423B9C1 *(Primary Key) (Clustered)*

          topicId

References:

      dbo.Course *(courseIdFK -> courseId)*

Used by:

      Procedure dbo.course_Topics

      Procedure dbo.deleteSpecificTopic

      Procedure dbo.insertSpecificTopic

      Procedure dbo.retrieveAllTopicData

      Procedure dbo.retrieveSpecificTopicData

      Procedure dbo.updateSpecificTopic

Views:

View dbo.Exam_question

Views Exam Questions along with the Choices of the Questions that the student can choose from

Column	Data Type	Nullable
examIdFK	int	
questionIdFFK	int	
question	nvarchar(255)	X
questionType	nvarchar(30)	
questionChoice	nvarchar(30)	
choiceContent	nvarchar(255)	

Used by:

> **Procedure dbo.Exam_Question_info**

Uses:

> **Table dbo.examQuestions**
>
> **Table dbo.Question**
>
> **Table dbo.questionChoices**

View dbo.Exam_question_And_ANSWERS

Views the Exam along with the Student's answer on it

Column	Data Type	Nullable
studentId	int	
examId	int	
questionId	int	
question	nvarchar(255)	X
questionChoice	nvarchar(30)	
choiceContent	nvarchar(255)	
questionAnswer	nvarchar(50)	

Used by:

> **Procedure dbo.Exam_Question_info_with_Answers**

Uses:

> **Table dbo.ansewrsOfTheQuestion**
>
> **Table dbo.Question**
>
> **Table dbo.questionChoices**

Procedures:

Procedure dbo.AddStudent

Parameter	Data Type	Default	Is Output
@stud_fname	nvarchar(30)		
@stud_lname	nvarchar(30)		
@studentadd	nvarchar(30)		
@deptname	nvarchar(30)		

Uses:

> **Table dbo.Department**
>
> **Table dbo.Student**

Procedure dbo.course_Topics

Parameter	Data Type	Default	Is Output
@ID	int		

Result:

Column	Data Type	Nullable
courseName	nvarchar(30)	
topicName	nvarchar(30)	

Uses:

> **Table dbo.Course**
>
> **Table dbo.Topic**

Procedure dbo.crud_QuestionChoicesDelete

Parameter	Data Type	Default	Is Output
@questionId	int		

Used by:

> **Procedure dbo.crud_QuestionDelete**

Uses:

> **Table dbo.questionChoices**

Procedure dbo.crud_QuestionDelete

Parameter	Data Type	Default	Is Output
@questionId	int		

Result:

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

Uses:

>> **Procedure dbo.crud_QuestionChoicesDelete**

>> **Table dbo.Question**

Procedure dbo.crud_QuestionInsert

Parameter	Data Type	Default	Is Output
@question	nvarchar(50)		
@questionModelAnswer	nvarchar(20)		
@questionGrade	int		
@questionType	nvarchar(30)		
@courseIdFK	int		

Result:

Column	Data Type	Nullable
questionId	int	
question	nvarchar(255)	X
questionModelAnswer	nvarchar(20)	
questionGrade	int	
questionType	nvarchar(30)	
courseIdFK	int	

Uses:

>> **Table dbo.Question**

>> **Table dbo.questionChoices**

Procedure dbo.crud_QuestionSelect

Parameter	Data Type	Default	Is Output
@questionId	int		

Result:

Column	Data Type	Nullable
questionId	int	
question	nvarchar(255)	X
questionModelAnswer	nvarchar(20)	
questionGrade	int	
questionType	nvarchar(30)	
courseIdFK	int	

Uses:

>> **Table dbo.Question**

Procedure dbo.crud_QuestionUpdate

Parameter	Data Type	Default	Is Output
@questionId	int		
@question	nvarchar(50)		
@questionModelAnswer	nvarchar(20)		
@questionGrade	int		
@questionType	nvarchar(30)		

@courseIdFK	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(34)	

Uses:

> **Table dbo.Question**

> **Table dbo.questionChoices**

Procedure dbo.deleteSpecificCourse

Parameter	Data Type	Default	Is Output
@courseId	int		

Result:

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

Uses:

> **Table dbo.Course**

Procedure dbo.deleteSpecificDepartmentById

Parameter	Data Type	Default	Is Output
@departmentId	int		

Result:

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

Uses:

> **Procedure dbo.procCatchError**

> **Table dbo.Department**

Procedure dbo.deleteSpecificDepartmentByName

Parameter	Data Type	Default	Is Output
@departmentName	nvarchar(30)		

Result:

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

Uses:

> **Procedure dbo.procCatchError**

Procedure dbo.deleteSpecificInstructor

Parameter	Data Type	Default	Is Output
@instId	int		

Result:

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

Uses:

Table dbo.Instructor

Procedure dbo.deleteSpecificTopic

Parameter	Data Type	Default	Is Output
@topicId	int		

Result:

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

Uses:

Table dbo.Topic

Procedure dbo.DeleteStudent

Parameter	Data Type	Default	Is Output
@studid	int		

Uses:

Table dbo.Student

Procedure dbo.Exam_Answers

Stored procedure to get answers of an exam

Parameter	Data Type	Default	Is Output
@student_id	int		
@exam_id	int		
@answr1	nvarchar(20)		
@answr2	nvarchar(20)		
@answr3	nvarchar(20)		
@answr4	nvarchar(20)		
@answr5	nvarchar(20)		
@answr6	nvarchar(20)		
@answr7	nvarchar(20)		
@answr8	nvarchar(20)		
@answr9	nvarchar(20)		
@answr10	nvarchar(20)		

Uses:

> **Table dbo.ansewrsOfTheQuestion**

> **Table dbo.examQuestions**

Procedure dbo.Exam_Correction

> *Stored procedure to correct a specific exam for grading.*

Parameter	Data Type	Default	Is Output
@exam_id	int		
@stud_id	int		
@final_student_grade	float		X

Used by:

> **Procedure dbo.SelectStudentByID3**

Uses:

> **Table dbo.ansewrsOfTheQuestion**

> **Table dbo.Exam**

> **Table dbo.studentEnrollsInCourse**

Procedure dbo.Exam_Question_info

> *Stored procedure to get Choices Content of a Question.*

Parameter	Data Type	Default	Is Output
@ex_id	int		

Result:

Column	Data Type	Nullable
examIdFK	int	
questionIdFFK	int	
question	nvarchar(255)	X
A	nvarchar(255)	X
B	nvarchar(255)	X
C	nvarchar(255)	X
D	nvarchar(255)	X
T	nvarchar(255)	X
F	nvarchar(255)	X

Uses:

> **View dbo.Exam_question**

Procedure dbo.Exam_Question_info_with_Answers

> *Stored procedure to get Choices Content of a Question along with the answer.*

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

Result:

Column	Data Type	Nullable
StudentId	int	
examId	int	
questionId	int	
question	nvarchar(255)	X
A	nvarchar(255)	X
B	nvarchar(255)	X
C	nvarchar(255)	X
D	nvarchar(255)	X
T	nvarchar(255)	X
F	nvarchar(255)	X
questionAnswer	nvarchar(50)	

Uses:

> **View dbo.Exam_question_And_ANSWERS**

Procedure dbo.GenerateExam

Stored procedure to generate an exam.

Parameter	Data Type	Default	Is Output
@cours_name	varchar(20)		
@num_of_mcq	int		
@num_of_tf	int		

Result:

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

Uses:

> **Table dbo.Course**
>
> **Table dbo.examQuestions**

Procedure dbo.insertNewCourse

Parameter	Data Type	Default	Is Output
@courseName	nvarchar(30)		

Result:

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

Uses:

> **Table dbo.Course**

Procedure dbo.insertNewDepartment

Parameter	Data Type	Default	Is Output
@departmentName	nvarchar(30)		

Result:

Column	Data Type	Nullable
ErrorNumber	int	X
ErrorSeverity	int	X
ErrorState	int	X
ErrorLine	int	X
ErrorProcedure	nvarchar(128)	X
ErrorMessage	nvarchar(4000)	X

Uses:

Procedure dbo.procCatchError

Table dbo.Department

Procedure dbo.insertSpecificInstructor

Parameter	Data Type	Default	Is Output
@fName	nvarchar(30)		
@lName	nvarchar(30)		
@address	nvarchar(30)		
@salary	int		
@supervisorId	int		
@deptId	int		
@workingHours	int		

Result:

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

Uses:

Table dbo.Department

Table dbo.Instructor

Procedure dbo.insertSpecificTopic

Parameter	Data Type	Default	Is Output
@topicName	nvarchar(30)		
@courseId	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(29)	

Uses:

Table dbo.Topic

Procedure dbo.InstractorByID3

Parameter	Data Type	Default	Is Output
@ID	int		

Result:

Column	Data Type	Nullable
FullName	nvarchar(61)	
instId	int	
courseName	nvarchar(30)	
NoOfStudent	int	X

Uses:

> **Table dbo.Course**
>
> **Table dbo.Instructor**
>
> **Table dbo.instructorTeachesCourse**
>
> **Table dbo.studentEnrollsInCourse**

Procedure dbo.procCatchError

> *No parameters.*

Result:

Column	Data Type	Nullable
ErrorNumber	int	X
ErrorSeverity	int	X
ErrorState	int	X
ErrorLine	int	X
ErrorProcedure	nvarchar(128)	X
ErrorMessage	nvarchar(4000)	X

Used by:

> **Procedure dbo.deleteSpecificDepartmentById**
>
> **Procedure dbo.deleteSpecificDepartmentByName**
>
> **Procedure dbo.insertNewDepartment**
>
> **Procedure dbo.retrieveDepartmentDataById**
>
> **Procedure dbo.retrieveDepartmentDataByName**
>
> **Procedure dbo.updateDepartmentData**

Procedure dbo.retrieveAllCourseData

> *No parameters.*

Result:

Column	Data Type	Nullable
Course Number	int	
Course Title	nvarchar(30)	

Uses:

> **Table dbo.Course**

Procedure dbo.retrieveAllInstructorsData

No parameters.

Result:

Column	Data Type	Nullable
Instructor Number	int	
Full Name	nvarchar(61)	
Address	nvarchar(30)	X
Salary	float	X
Supervisor Number	int	X

Uses:

Table dbo.Instructor

Procedure dbo.retrieveAllTopicData

No parameters.

Result:

Column	Data Type	Nullable
Topic Number	int	
Topic	nvarchar(30)	
Course Number	int	

Uses:

Table dbo.Topic

Procedure dbo.retrieveDepartmentData

No parameters.

Result:

Column	Data Type	Nullable
Department ID	int	
Department Name	nvarchar(30)	

Uses:

Table dbo.Department

Procedure dbo.retrieveDepartmentDataById

Parameter	Data Type	Default	Is Output
@departmentId	int		

Result:

Column	Data Type	Nullable
Department ID	int	
Department Name	nvarchar(30)	

Uses:

Procedure dbo.procCatchError

Table dbo.Department

Procedure dbo.retrieveDepartmentDataByName

Parameter	Data Type	Default	Is Output
@departmentName	nvarchar(30)		

Result:

Column	Data Type	Nullable
Department ID	int	
Department Name	nvarchar(30)	

Uses:

Procedure dbo.procCatchError

Table dbo.Department

Procedure dbo.retrieveSpecificCourseData

Parameter	Data Type	Default	Is Output
@courseId	int		

Result:

Column	Data Type	Nullable
Course Number	int	
Course Title	nvarchar(30)	

Uses:

Table dbo.Course

Procedure dbo.retrieveSpecificTopicData

Parameter	Data Type	Default	Is Output
@topicId	int		

Result:

Column	Data Type	Nullable
Topic Number	int	
Topic	nvarchar(30)	
Course Number	int	

Uses:

Table dbo.Topic

Procedure dbo.RetriveAllStudentData

No parameters.

Result:

Column	Data Type	Nullable
studentId	int	
studentFName	nvarchar(30)	
studentLName	nvarchar(30)	
studentAddress	nvarchar(30)	X
deptIdFK	int	

Uses:

> **Table dbo.Student**

Procedure dbo.Select_Student_Grades

Parameter	Data Type	Default	Is Output
@student_id	int		

Result:

Column	Data Type	Nullable
studentIdFK	int	
grade	float	X
courseName	nvarchar(30)	

Uses:

> **Table dbo.Course**
>
> **Table dbo.studentEnrollsInCourse**

Procedure dbo.SelectStudent_ByDepNo

Parameter	Data Type	Default	Is Output
@DepNo	int		

Result:

Column	Data Type	Nullable
studentId	int	
studentFName	nvarchar(30)	
studentLName	nvarchar(30)	
studentAddress	nvarchar(30)	X
deptIdFK	int	

Uses:

> **Table dbo.Student**

Procedure dbo.SelectStudentByID3

Parameter	Data Type	Default	Is Output
@ID	int		

Result:

Column	Data Type	Nullable
NameOfStudent	nvarchar(61)	

courseName	nvarchar(30)	
grade	float	X

Uses:

Procedure dbo.Exam_Correction

Table dbo.ansewrsOfTheQuestion

Table dbo.Course

Table dbo.Student

Table dbo.studentEnrollsInCourse

Procedure dbo.student_infromation

Parameter	Data Type	Default	Is Output
@dept_id	int		

Result:

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

Uses:

Table dbo.Department

Table dbo.Student

Procedure dbo.updateDepartmentData

Parameter	Data Type	Default	Is Output
@oldDeptId	int		
@newDeptName	nvarchar(30)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(41)	

Uses:

Procedure dbo.procCatchError

Table dbo.Department

Procedure dbo.updateSpecificCourse

Parameter	Data Type	Default	Is Output
@courseId	int		
@courseName	nvarchar(30)		

Result:

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

Uses:

> **Table dbo.Course**

Procedure dbo.updateSpecificInstructor

Parameter	Data Type	Default	Is Output
@instId	int		
@fName	nvarchar(30)		
@lName	nvarchar(30)		
@address	nvarchar(30)		
@salary	int		
@supervisorId	int		
@deptId	int		
@workingHours	int		

Result:

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

Uses:

> **Table dbo.Department**
>
> **Table dbo.Instructor**

Procedure dbo.updateSpecificTopic

Parameter	Data Type	Default	Is Output
@topicId	int		
@topicName	nvarchar(30)		
@courseId	int		

Result:

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

Uses:

> **Table dbo.Topic**

Procedure dbo.UpdateStudentData

Parameter	Data Type	Default	Is Output
@studid	int		
@stud_fname	nvarchar(30)		
@stud_lname	nvarchar(30)		
@studentadd	nvarchar(30)		
@deptname	nvarchar(30)		

Uses:

> **Table dbo.Department**
>
> **Table dbo.Student**