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

online_Exame

An online exam database is a software application that allows users to create, administer, and grade exams or quizzes online. The database stores information such as exam questions, answers, student answers, and grades.

Tables: dbo.Courses (10 rows) Course table lists all the courses offered by a school or educational institution. A department table is a document or database that contains information about the various departments within a school An exam table is a database table that stores information related to exams or quizzes. The table typically includes fields such as exam title and the number of questions. It may also include fields for storing questions and answer options, as well as fields for student responses and grades The Exam Answers table is a database table that stores the answers of students for questions on an exam. The table typically includes fields such as the question id, exam id and the answer. The Exam Questions table is a database table that stores all the questions for an exam. The Instructor Courses table is a database table that stores information about the courses that an instructor is teaching or has taught. The Instructor table is a database table that stores information about the instructors at an educational institution. The table typically includes fields such as the instructor's name, email address, department, and contact information. The Question choices table is a database table that stores all choices for each question which the student will choose from it. The Questions table is a database table that stores all the questions that can be used for exams, quizzes or assessments. The table typically includes fields such as the question text, question type (e.g. multiple choice, true/false), The stud_course table is a database table that stores the courses that assigned to students dbo.Student (20 rows) 8 student table is atype of table or database used to store information about students, such as their name, ID number, academic records, and contact information. A Topic table is a type of table used to store all topics which assign to all courses such as (trigger,index)assign to database course. **Procedures:**

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Tables:

Table dbo.Courses (10 rows)

Course table lists all the courses offered by a school or educational institution.

	Column	Data Type	Identity	Nullable	Default	
PK	Crs_ID	int				
The course ID column in a course table is a unique identifier assigned to each course offered by a school or educational institution.						
	Cr_Name	varchar(50)		Χ		
The course name column in a course table is the column that contains the name or title						

The course name column in a course table is the column that contains the name or title of each course offered by a school or educational institution. The course name is usually a brief, descriptive phrase that summarizes the main content or focus of the course.

Indexes:

PK__Courses__56CAA5F5DF7F67BE (Primary Key) (Clustered)

Crs ID

Referenced by:

dbo.Ins_Crs (Crs_ID)
dbo.Questions (Crs_ID)
dbo.Stud_Course (Crs_ID)
dbo.Topic (Crs_ID)

Used by:

Procedure dbo.DelCourse

Procedure dbo.generate_exam

Procedure dbo.InsCourse

Procedure dbo.SelectAllCourses

Procedure dbo.SelectCourse

Procedure dbo.UpCourse

Table dbo.Department (8 rows)

A department table is a document or database that contains information about the various departments within a school

	Column	Data Type	Identity	Nullable	Default			
PK	Dept_ID	int						
dep	The deprtment ID column in a department table is a unique identifier assigned to each department exit in a school or educational institution.							
	Dept_Name varchar(20) X							
	A department name in a department table is a field or column that stores the name or title of a specific department within an organization. This can include departments such as human resources, finance, marketing, IT, and more.							
	Dept_Description	varchar(100)		X				
	A department description in a department table is a field or column that stores a brief summary or explanation of the responsibilities, functions, and activities of a specific department within an organization.							
	Dept_Location	varchar(100)		X				
with	A department loction is a column taht stores the physical location of specific department withn an organization.							

FK	Mgr_ID	int		Х				
The manager ID in a department table typically refers to the unique identification number assigned to the manager of that specific department. This ID can be used to link the department information with the manager's information in instructor table.								
	Mgr_HrieDate date X							
curr	The manager hire date in a department table typically refers to the date when the current manager of the department was hired by the organization.							

Indexes:

PK__Departme__72ABC12C7C7EB86A (Primary Key) (Clustered)

Dept_ID

References:

dbo.Instructor (Mgr_ID -> Ins_ID)

Referenced by:

dbo.Instructor (Dept_ID)

dbo.Student (Dept_ID)

Used by:

Procedure dbo.deleteDepartment

Procedure dbo.insertDepartment

Procedure dbo.selectDepartment

Procedure dbo.updateDepartment

Table dbo.Exam (1 row)

An exam table is a database table that stores information related to exams or quizzes. The table typically includes fields such as exam title and the number of questions. It may also include fields for storing questions and answer options, as well as fields for student responses and grades

	Column	Data Type	Identity	Nullable	Default	
PK	Ex_ID	int	X			
An exam ID in an exam table is a field or column that stores a unique identifier for each exam in the table. This ID is a numerical value that is used to uniquely identify and distinguish each exam from others in the table.						
	Ex_Name	varchar(50)		Χ		
An exam name in an exam table is a field or column that stores the name or title of a specific exam. This name is used to identify and describe the exam. The exam name can be used to categorize and filter the exams in the table, and to understand the purpose and content of the exam.						

Indexes:

PK__Exam__410CF9172847BA0A (Primary Key) (Clustered)

Ex_ID

Referenced by:

dbo.Exam_Answers (Ex_ID)

dbo.Exam_Questions (Exam_ID -> Ex_ID)

Used by:

Procedure dbo.DelExam

Procedure dbo.generate_exam

Procedure dbo.InsExam

Procedure dbo.SelectAllExams

Procedure dbo.SelectExam

Procedure dbo.UpExam

Table dbo.Exam_Answers (0 rows)

The Exam_Answers table is a database table that stores the answers of students for questions on an exam. The table typically includes fields such as the question id, exam id and the answer.

	Column	Data Type	Identity	Nullable	Default			
PK, FK	Ex_ID	int						
An exam ID is a forign key refers to exam ID in an exam table is a field or column that stores a unique identifier for each exam in the table. This ID is a numerical value that is used to uniquely identify and distinguish each exam from others in the table.								
PK, FK	St_ID	int						
that sto	A student ID is a forign key refers to student ID in a student table is a field or column that stores a unique identifier for each student in the table.							
PK, FK	Question_ID	int						
column	A question_ID is a forign key refers to question_ID in a question table is a field or column that stores a unique identifier for each question in the table.							
	St_Answer	varchar(300)						
A student answer in an exam answer table is a field or column that stores the response provided by a student for a specific exam question and can be used to compare the student's response with the correct answer								

Indexes:

PK_Exam_Answers (Primary Key) (Clustered)

Ex_ID St_ID Question_ID

References:

dbo.Exam (Ex_ID)
dbo.Questions (Question_ID)
dbo.Student (St_ID)

Used by:

Procedure dbo.de_Ex_Ans

Procedure dbo.exam_correction

Procedure dbo.ins_Ex_Ans

Procedure dbo.sel_all_st_answers

Procedure dbo.sel_all_st_exams

Procedure dbo.sel_st_quest_ans

Procedure dbo.up_Ex_Ans

Table dbo.Exam_Questions (10 rows)

The Exam_Questions table is a database table that stores all the questions for an exam.

	Column	Data Type	Identity	Nullable	Default			
PK, FK	Exam_ID	int						
An exam ID is a forign key refers to exam ID in an exam table is a field or column that stores a unique identifier for each exam in the table. This ID is a numerical value that is used to uniquely identify and distinguish each exam from others in the table.								
PK, FK	PK, FK Question_ID int							
column	A question_ID is a forign key refers to question_ID in a question table is a field or column that stores a unique identifier for each question in the table.							

Indexes:

PK_Exam_Questions (Primary Key) (Clustered)

Exam_ID Question_ID

References:

dbo.Exam (Exam_ID -> Ex_ID)
dbo.Questions (Question_ID)

Used by:

Procedure dbo.DelExamQuestions

Procedure dbo.generate_exam

Procedure dbo.InsExamQuestions

Procedure dbo.SelectAllExamQuestions

Procedure dbo.SelectExamQuestions

Table dbo.Ins_Crs (10 rows)

The Instructor_Courses table is a database table that stores information about the courses that an instructor is teaching or has taught.

	Column	Data Type	Identity	Nullable	Default		
PK, FK	Crs_ID	int					
The course ID is a forign key refers to course ID column in a course table is a unique identifier assigned to each course offered by a school or educational institution.							
PK, FK	PK, FK Instructor_ID int						
The instructor ID is a forign key refers to instructor ID column in a instructor table is a unique identifier assigned to each course offered by a school or educational institution.							

Indexes:

PK_Ins_Crs (Primary Key) (Clustered)

Crs_ID Instructor_ID

References:

dbo.Courses (Crs_ID)
dbo.Instructor (Instructor_ID -> Ins_ID)

Used by:

Procedure dbo.de_Ins_Crs

Procedure dbo.ins_Ins_Crs

Procedure dbo.sel_All_Ins_Crs

Procedure dbo.sel_Crs_Ins

Procedure dbo.up_Ins_Crs

Table dbo.Instructor (11 rows)

The Instructor table is a database table that stores information about the instructors at an educational institution. The table typically includes fields such as the instructor's name, email address, department, and contact information.

	Column	Data Type	Identity	Nullable	Default		
PK	Ins_ID	int					
coui	The instructor ID column in a instructor table is a unique identifier assigned to each course offered by a school or educational institution.						
	Ins_Name	varchar(20)		Χ			
	Ins_Degree	varchar(20)		X			
	Ins_Salary	int		Χ			
FK	Dept_ID	int		Х			
	department table is a unique identifier assigned to each department institution.						

Indexes:

PK__Instruct__151409CD37476F28 (Primary Key) (Clustered)

References:

dbo.Department (Dept_ID)

Ins_ID

Referenced by:

dbo.Department (Mgr_ID -> Ins_ID)
dbo.Ins_Crs (Instructor_ID -> Ins_ID)
dbo.Stud_Course (Instructor_ID -> Ins_ID)

Used by:

Procedure dbo.DelInstructor

Procedure dbo.InsInstructor

Procedure dbo.SelectAllInstructors

Procedure dbo.SelectInstructor

Procedure dbo.updateDepartment

Procedure dbo.UpInstructor

Table dbo.Question_Choices (433 rows)

The Question_choices table is a database table that stores all choices for each question which the student will choose from it.

	Column	Data Type	Identity	Nullable	Default
PK, FK	Question_ID	int			

A question_ID is a forign key refers to question_ID in a question table is a field or column that stores a unique identifier for each question in the table.					
	Answer-1	varchar(300)	Х		
options	Answer-1 in a question_choices table is a field or column that stores the first answer options for a multiple-choice question.				
	Answer-2	varchar(300)	X		
options	Answer-2 in a question_choices table is a fafor a multiple-choice question.	ield or column that stores	the second	d answer	
	Answer-3	varchar(300)	X		
options	Answer-3 in a question_choices table is a field or column that stores the third answer options for a multiple-choice question.				
	Answer-4	varchar(300)	X		
Answer-4 in a question_choices table is a field or column that stores the fourth answer options for a multiple-choice question.					

Indexes:

PK_Question_Choices_1 (Primary Key) (Clustered)

Question_ID

References:

dbo.Questions (Question_ID)

Used by:

Procedure dbo.DelQuestionChoice

Procedure dbo.InsQuestionChoices

Procedure dbo.SelectAllQuestionChoice

Procedure dbo.SelectQuestionChoice

Procedure dbo.UpQuestionChoice

Table dbo.Questions (436 rows)

The Questions table is a database table that stores all the questions that can be used for exams, quizzes or assessments. The table typically includes fields such as the question text, question type (e.g. multiple choice, true/false),

	Column	Data Type	Identity	Nullable	Default
PK	Question_ID	int			
A question_ID in a question table is a field or column that stores a unique identifier for each question in the table.					ifier for
FK	Crs_ID	int		Χ	
iden	The course ID is a forign key refers to cour tifier assigned to each course offered by a school				nique
	Q_Type	int		Χ	
	Q_Statement	varchar(300)		Χ	
	Model_Answer	varchar(300)		X	
	Q_Code	varchar(300)		Χ	

Indexes:

PK__Question__B0B2E4C6C08E80FC (Primary Key) (Clustered)

Question_ID

References:

dbo.Courses (Crs_ID)

Referenced by:

```
dbo.Exam_Answers (Question_ID)
dbo.Exam_Questions (Question_ID)
dbo.Question_Choices (Question_ID)
```

Used by:

Procedure dbo.deQuestions

Procedure dbo.exam_correction

Procedure dbo.generate_exam

Procedure dbo.insQuestions

Procedure dbo.selectQuestions

Procedure dbo.showAllQuestions

Procedure dbo.upQuestions

Table dbo.Stud_Course (20 rows)

The stud_course table is a database table that stores the courses that assigned to students

	Column	Data Type	Identity	Nullable	Default
PK, FK	St_ID	int			
A student ID is a forign key refers to student ID in a student table is a field or column that stores a unique identifier for each student in the table.					
PK, FK	Crs_ID	int			
identifie	The course ID is a forign key refers to course or assigned to each course offered by a school				nique
FK	Instructor_ID	int		Х	
	St_Grade	varchar(20)		X	

Indexes:

References:

dbo.Courses (Crs_ID)
dbo.Instructor (Instructor_ID -> Ins_ID)
dbo.Student (St_ID)

Used by:

Procedure dbo.de_St_Crs

Crs_ID

Procedure dbo.ins_St_Crs

Procedure dbo.sel_all_course_students

Procedure dbo.sel_all_student_courses

Procedure dbo.sel_St_Crs

Procedure dbo.up_St_Grade

Table dbo.Student (20 rows)

student table is atype of table or database used to store information about students, such as their name, ID number, academic records, and contact information.

	Column	Data Type	Identity	Nullable	Default
PK	St_ID	int			
A student ID in a student table is a field or column that stores a unique identification each student in the table.		ue identifie	er for		
	St_Name	varchar(50)		X	
	St_phone	int		Х	
UK	St_Email	varchar(50)		X	
	Street	varchar(50)		X	
	city	varchar(20)		Х	
FK	Dept_ID	int		Х	
	T				

The deprtment ID is a forign key refers to deprtment ID column in a department table is a unique identifier assigned to each department institution.

Indexes:

PK__Student__B9034F938A42EAC2 (Primary Key) (Clustered)

St_ID

IX_Student (Unique)

St Email

References:

dbo.Department (Dept_ID)

Referenced by:

 ${\bf dbo.Exam_Answers}\;(St_{ID})$

dbo.Stud_Course (St_ID)

Table dbo.Topic (32 rows)

A Topic table is a type of table used to store all topics which assign to all courses such as (trigger,index)assign to database course.

	Column	Data Type	Identity	Nullable	Default
PK	Topic_ID	int			
	Topic_Name	varchar(20)		Χ	
	Topic_Desc	varchar(40)		Χ	
FK	Crs_ID	int		Х	

The course ID is a forign key refers to course ID column in a course table is a unique identifier assigned to each course offered by a school or educational institution.

Indexes:

PK_Topic (Primary Key) (Clustered)

Topic_ID

References:

dbo.Courses (Crs_ID)

Used by:

Procedure dbo.deTopic

Procedure dbo.insTopic

Procedure dbo.selectTopic

Procedure dbo.showAllTopics

Procedure dbo.upTopic

Procedures:

Procedure dbo.de_Ex_Ans

Parameter	Data Type	Default	Is Output
@Ex_ID	int		
@St_ID	int		
@Question_ID	int		

Result:

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

Uses:

Table dbo.Exam_Answers

Procedure dbo.de_Ins_Crs

Parameter	Data Type	Default	Is Output
@Crs_ID	int		
@Ins_ID	int		

Result:

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

Uses:

Table dbo.Ins_Crs

Procedure dbo.de_St_Crs

Parameter	Data Type	Default	Is Output
@St_ID	int		
@Crs_ID	int		

Result:

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

Uses:

Table dbo.Stud_Course

Procedure dbo.DelCourse

This stored procedure delete a specific course record from the database based on a course id.

Parameter	Data Type	Default	Is Output
@id	int		

Result:

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

Uses:

Table dbo.Courses

Procedure dbo.deleteDepartment

This stored procedure delete a specific department record from the database based on a department id.

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
ErrorMessage	varchar(12)	

Uses:

Table dbo.Department

Procedure dbo.DelExam

This stored procedure delete a specific exam record from the database based on a exam id.

Parameter	Data Type	Default	Is Output
@id	int		

Result:

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

Uses:

Table dbo.Exam

Procedure dbo.DelExamQuestions

Parameter	Data Type	Default	Is Output
@Quest_id	int		

Result:

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

Uses:

Table dbo.Exam_Questions

Procedure dbo.DelInstructor

This stored procedure delete a specific instructor record from the database based on a instructor id.

Parameter	Data Type	Default	Is Output
@id	int		

Result:

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

Uses:

Table dbo.Instructor

Procedure dbo.DelQuestionChoice

Parameter	Data Type	Default	Is Output
@id	int		

Result:

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

Uses:

Table dbo.Question_Choices

Procedure dbo.deQuestions

Parameter	Data Type	Default	Is Output
@Q_ID	int		

Result:

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

Uses:

Table dbo.Questions

Procedure dbo.deTopic

This stored procedure delete a specific topic record from the database based on a topic id.

Parameter	Data Type	Default	Is Output
@Topic_ID	int		

Result:

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

Uses:

Procedure dbo.exam_correction

Parameter	Data Type	Default	Is Output
@Ex_ID	int		
@St_ID	int		

Result:

Column	Data Type	Nullable
Ex_ID	int	X
St_ID	int	X
grade	int	X
total	int	X
Percentage	real	X

Uses:

Table dbo.Exam_Answers

Table dbo.Questions

Procedure dbo.generate_exam

Parameter	Data Type	Default	Is Output
@Crs_ID	int		
@num_mcq	int	7	
@num_tf	int	3	

Result:

Column	Data Type	Nullable
exam_ID	int	Х

Uses:

Table dbo.Courses

Table dbo.Exam

Table dbo.Exam_Questions

Table dbo.Questions

Procedure dbo.ins_Ex_Ans

Parameter	Data Type	Default	Is Output
@Ex_ID	int		
@St_ID	int		
@Question_ID	int		
@St_Ans	varchar(100)		

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

Table dbo.Exam_Answers

Procedure dbo.ins_Ins_Crs

Parameter	Data Type	Default	Is Output
@Crs_ID	int		
@Ins_ID	int		

Result:

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

Uses:

Table dbo.Ins_Crs

Procedure dbo.ins_St_Crs

Parameter	Data Type	Default	Is Output
@St_ID	int		
@Crs_ID	int		
@Ins_ID	int		
@St_Grade	int	NULL	

Result:

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

Uses:

Table dbo.Stud_Course

Procedure dbo.InsCourse

This stored procedure inserts a new course record into the database. It takes the input parameters as the course information to be inserted and insert into students table.

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

Result:

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

Uses:

Table dbo.Courses

Procedure dbo.insertDepartment

Parameter	Data Type	Default	Is Output
-----------	-----------	---------	-----------

@id	int		
@name	varchar(20)		
@Mgr_id	int		
@description	varchar(100)	null	
@location	varchar(100)	null	
@hireDate	date	null	

Table dbo.Department

Procedure dbo.InsExam

This stored procedure inserts a new exam record into the database. It takes the input parameters as the exam information to be inserted and insert into exams table.

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

Result:

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

Uses:

Table dbo.Exam

Procedure dbo.InsExamQuestions

Parameter	Data Type	Default	Is Output
@Exam_id	int		
@Quest_id	int		

Result:

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

Uses:

Table dbo.Exam_Questions

Procedure dbo.InsInstructor

This stored procedure inserts a new instructor record into the database. It takes the input parameters as the instructor information to be inserted and insert into instructors table.

Parameter	Data Type	Default	Is Output
@id	int		
@name	nvarchar(20)		
@degree	nvarchar(20)		
@salary	int		
@department	int		

Result:

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

Uses:

Table dbo.Instructor

Procedure dbo.InsQuestionChoices

Parameter	Data Type	Default	Is Output
@id	int		
@Ans1	varchar(300)		
@Ans2	varchar(300)		
@Ans3	varchar(300)		
@Ans4	varchar(300)		

Result:

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

Uses:

Table dbo.Question_Choices

Procedure dbo.insQuestions

Parameter	Data Type	Default	Is Output
@Q_ID	int		
@Crs_ID	int		
@Q_Type	int		
@Q_Statement	varchar(300)		
@Model_Answer	varchar(300)		
@Q_Code	varchar(300)	null	

Result:

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

Uses:

Table dbo.Questions

Procedure dbo.insTopic

This stored procedure inserts a new topic record into the database. It takes the input parameters as the topic information to be inserted and insert into topics table.

Parameter	Data Type	Default	Is Output
@Topic_ID	int		
@Topic_Name	varchar(20)		
@Crs_ID	int		
@Topic_Desc	varchar(40)	null	

Result:

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

Uses:

Table dbo.Topic

Procedure dbo.sel_all_course_students

This stored procedure retrieves all students courses records from the database.

Parameter	Data Type	Default	Is Output
@Crs_ID	int		

Result:

Column	Data Type	Nullable
St_ID	int	
Crs_ID	int	
Instructor_ID	int	Χ
St_Grade	varchar(20)	Χ

Uses:

Table dbo.Stud_Course

Procedure dbo.sel_All_Ins_Crs

This stored procedure retrieves all instructor courses records from the database.

Parameter	Data Type	Default	Is Output
@Crs_ID	int		

Result:

Column	Data Type	Nullable
Crs_ID	int	
Instructor_ID	int	

Uses:

Table dbo.Ins_Crs

Procedure dbo.sel_all_st_answers

This stored procedure retrieves all student answers records from the database.

Parameter	Data Type	Default	Is Output
@Ex_ID	int		
@St_ID	int		

Column	Data Type	Nullable
Ex_ID	int	
St_ID	int	

Question_ID	int	
St_Answer	varchar(300)	

Table dbo.Exam_Answers

Procedure dbo.sel_all_st_exams

This stored procedure retrieves all exams for students records from the database.

Parameter	Data Type	Default	Is Output
@St_ID	int		

Result:

Column	Data Type	Nullable
Ex_ID	int	
St_ID	int	
Question_ID	int	
St_Answer	varchar(300)	

Uses:

Table dbo.Exam_Answers

Procedure dbo.sel_all_student_courses

This stored procedure retrieves all students courses records from the database.

Parameter	Data Type	Default	Is Output
@St_ID	int		

Result:

Column	Data Type	Nullable
St_ID	int	
Crs_ID	int	
Instructor_ID	int	Χ
St_Grade	varchar(20)	Х

Uses:

Table dbo.Stud_Course

Procedure dbo.sel_Crs_Ins

Parameter	Data Type	Default	Is Output
@Ins_ID	int		

Column	Data Type	Nullable
Crs_ID	int	
Instructor_ID	int	

Table dbo.Ins_Crs

Procedure dbo.sel_St_Crs

Parameter	Data Type	Default	Is Output
@St_ID	int		
@Crs_ID	int	NULL	

Result:

Column	Data Type	Nullable
St_ID	int	
Crs_ID	int	
Instructor_ID	int	X
St_Grade	varchar(20)	Х

Uses:

Table dbo.Stud_Course

Procedure dbo.sel_st_quest_ans

Parameter	Data Type	Default	Is Output
@Ex_ID	int		
@St_ID	int		
@Question_ID	int		

Result:

Column	Data Type	Nullable
Ex_ID	int	
St_ID	int	
Question_ID	int	
St_Answer	varchar(300)	

Uses:

Table dbo.Exam_Answers

Procedure dbo.SelectAllCourses

This stored procedure retrieves all courses records from the database.

No parameters.

Result:

Column	Data Type	Nullable
Crs_ID	int	
Cr Name	varchar(50)	X

Uses:

Table dbo.Courses

Procedure dbo.SelectAllExamQuestions

This stored procedure retrieves all exam question records from the database.

No parameters.

Result:

Column	Data Type	Nullable
Exam_ID	int	
Question_ID	int	

Uses:

Table dbo.Exam_Questions

Procedure dbo.SelectAllExams

This stored procedure retrieves all exams records from the database.

No parameters.

Result:

Column	Data Type	Nullable
Ex_ID	int	
Ex_Name	varchar(50)	Χ

Uses:

Table dbo.Exam

Procedure dbo.SelectAllInstructors

This stored procedure retrieves all instructors records from the database.

No parameters.

Result:

Column	Data Type	Nullable
Ins_ID	int	
Ins_Name	varchar(20)	X
Ins_Degree	varchar(20)	X
Ins_Salary	int	Х
Dept ID	int	Х

Uses:

Table dbo.Instructor

Procedure dbo.SelectAllQuestionChoice

This stored procedure retrieves all question choices records from the database.

No parameters.

Result:

Column	Data Type	Nullable
Question_ID	int	
Answer-1	varchar(300)	Х
Answer-2	varchar(300)	Χ
Answer-3	varchar(300)	Х
Answer-4	varchar(300)	Χ

Uses:

Table dbo.Question_Choices

Procedure dbo.SelectCourse

This stored procedure retrieves a specific course record from the database based on a course id.

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
Crs_ID	int	
Cr_Name	varchar(50)	Х

Uses:

Table dbo.Courses

Procedure dbo.selectDepartment

This stored procedure retrieves a specific department record from the database based on a department id.

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
Dept_ID	int	
Dept_Name	varchar(20)	X
Dept_Description	varchar(100)	X
Dept_Location	varchar(100)	X
Mgr_ID	int	Х
Mgr_HrieDate	date	Х

Uses:

Table dbo.Department

Procedure dbo.SelectExam

This stored procedure retrieves a specific exam record from the database based on a exam id.

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
Ex_ID	int	
Ex_Name	varchar(50)	Χ

Uses:

Table dbo.Exam

Procedure dbo.SelectExamQuestions

Parameter	Data Type	Default	Is Output
@Exam_id	int		

Result:

Column	Data Type	Nullable
Exam_ID	int	
Question_ID	int	

Uses:

Table dbo.Exam_Questions

Procedure dbo.SelectInstructor

This stored procedure retrieves a specific instructor record from the database based on a instructor id.

	Parameter	Data Type	Default	Is Output
@i	d	int		

Result:

Column	Data Type	Nullable
Ins_ID	int	
Ins_Name	varchar(20)	Χ
Ins_Degree	varchar(20)	Χ
Ins_Salary	int	Χ
Dept_ID	int	Χ

Uses:

Table dbo.Instructor

Procedure dbo.SelectQuestionChoice

Parameter	Data Type	Default	Is Output
@id	int		

Column	Data Type	Nullable
Question_ID	int	
Answer-1	varchar(300)	X
Answer-2	varchar(300)	X

Answer-3	varchar(300)	Χ
Answer-4	varchar(300)	Χ

Table dbo.Question_Choices

Procedure dbo.selectQuestions

This stored procedure retrieves a specific question record from the database based on a questioon id.

Parameter	Data Type	Default	Is Output
@Q_ID	int		

Result:

Column	Data Type	Nullable
Question_ID	int	
Crs_ID	int	X
Q_Type	int	X
Q_Statement	varchar(300)	X
Model_Answer	varchar(300)	Х
Q_Code	varchar(300)	Х

Uses:

Table dbo.Questions

Procedure dbo.selectTopic

This stored procedure retrieves a specific topic record from the database based on a topic id.

Parameter	Data Type	Default	Is Output
@Topic_ID	int		

Result:

Column	Data Type	Nullable
Topic_ID	int	
Topic_Name	varchar(20)	X
Topic_Desc	varchar(40)	Х
Crs_ID	int	Х

Uses:

Table dbo.Topic

Procedure dbo.showAllQuestions

This stored procedure retrieves all questions records from the database.

No parameters.

Column	Data Type	Nullable
Question_ID	int	
Crs ID	int	X

Q_Type	int	X
Q_Statement	varchar(300)	Х
Model_Answer	varchar(300)	Х
Q_Code	varchar(300)	Х

Table dbo.Questions

Procedure dbo.showAllTopics

This stored procedure retrieves all topics records from the database.

No parameters.

Result:

Column	Data Type	Nullable
Topic_ID	int	
Topic_Name	varchar(20)	X
Topic_Desc	varchar(40)	X
Crs_ID	int	X

Uses:

Table dbo.Topic

Procedure dbo.up_Ex_Ans

Parameter	Data Type	Default	Is Output
@Ex_ID	int		
@St_ID	int		
@Question_ID	int		
@St_Ans	varchar(100)		

Result:

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

Uses:

Table dbo.Exam_Answers

Procedure dbo.up_Ins_Crs

Parameter	Data Type	Default	Is Output
@Crs_ID	int		
@Ins_ID	int		

Result:

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

Uses:

Procedure dbo.up_St_Grade

This stored procedure update a specific student grade record from the database based on a student id.

Parameter	Data Type	Default	Is Output
@St_ID	int		
@Crs_ID	int		
@St_Grade	int		

Result:

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

Uses:

Table dbo.Stud_Course

Procedure dbo.UpCourse

This stored procedure update a specific course record from the database based on a course id.

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

Result:

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

Uses:

Table dbo.Courses

Procedure dbo.updateDepartment

This stored procedure update a specific department record from the database based on a department id.

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(20)	null	
@Mgr_id	int	null	
@description	varchar(100)	null	
@location	varchar(100)	null	
@hireDate	date	null	

Result:

Column	Data Type	Nullable
ErrorMessage	varchar(12)	

Uses:

Table dbo.Department

Table dbo.Instructor

Procedure dbo.UpExam

This stored procedure update a specific exam record from the database based on a exam id.

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

Result:

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

Uses:

Table dbo.Exam

Procedure dbo.UpInstructor

This stored procedure update a specific instructor record from the database based on a instructor id.

Parameter	Data Type	Default	Is Output
@id	int		
@degree	nvarchar(20)		
@salary	int		
@department	int		

Result:

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

Uses:

Table dbo.Instructor

Procedure dbo.UpQuestionChoice

This stored procedure update a specific question choices record from the database based on a question id.

Parameter	Data Type	Default	Is Output
@id	int		
@Ans1	varchar(300)		
@Ans2	varchar(300)		
@Ans3	varchar(300)		
@Ans4	varchar(300)		

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

Table dbo.Question_Choices

Procedure dbo.upQuestions

This stored procedure update a specific question record from the database based on a question id.

Parameter	Data Type	Default	Is Output
@Q_ID	int		
@Crs_ID	int	null	
@Q_Type	int	null	
@Q_Statement	varchar(300)	null	
@Model_Answer	varchar(300)	null	
@Q_Code	varchar(300)	null	

Result:

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

Uses:

Table dbo.Questions

Procedure dbo.upTopic

This stored procedure update a specific topic record from the database based on a topic id.

Parameter	Data Type	Default	Is Output
@Topic_ID	int	null	
@Topic_Name	varchar(20)	null	
@Crs_ID	int	null	
@Topic_Desc	varchar(40)	null	

Result:

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

Uses:

Table dbo.Topic