

Generated using SQL Data Dictionary demo version.

Project Exam

Examination System Project

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Tables:

Table dbo.Course (21 rows)

Table that contain course id and course name.

	Column	Data Type	Identity	Nullable	Default
PK	Crs_Id	int			
UK	Crs_Name	varchar(50)			

Indexes:

PK_Course (Primary Key) (Clustered)

Crs_Id

c1 (Unique)

Crs_Name

Referenced by:

dbo.Exam (Crs_Id)

dbo.Ins_Course (Crs_Id)

dbo.Question (Crs_id -> Crs_Id)

dbo.Stud_Course (Crs_Id)

dbo.Topic (Crs_Id)

Table dbo.Department (10 rows)

Table that contain department name , it's location and it's manager.

	Column	Data Type	Identity	Nullable	Default
PK	Dept_Id	int			
	Dept_Name	varchar(20)			
	Loc	varchar(50)		X	
FK	Ins_Id	int		X	

Indexes:

PK_Department (Primary Key) (Clustered)

Dept_Id

References:

dbo.Instructor (Ins_Id)

Referenced by:

dbo.Instructor (Dept_Id)

dbo.Student (Dept_Id)

Triggers:

trg_DeleteDepartment (After Delete)

Table dbo.Exam (12 rows)

Table that conation exam name and it's duration for every course.

	Column	Data Type	Identity	Nullable	Default
PK	Exam_Id	int			
	Exam_Name	varchar(50)			
	Time	int			
FK	Crs_Id	int		X	

Indexes:

PK_Exam (Primary Key) (Clustered)

Exam_Id

References:

dbo.Course (Crs_Id)

Table dbo.Exam_Question (116 rows)

Table that contain both exam and question ids in the exam.

	Column	Data Type	Identity	Nullable	Default
PK	E_Id	int			
PK	Q_Id	int			

Indexes:

PK_Exam_Question (Primary Key) (Clustered)

E_Id

Q_Id

Table dbo.Ins_Course (52 rows)

Table that contain both course and instructor id.

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

Indexes:

PK_Ins_Course (Primary Key) (Clustered)

Ins_Id

Crs_Id

References:

dbo.Course (Crs_Id)

dbo.Instructor (Ins_Id)

Table dbo.Instructor (30 rows)

Table that contain the instructor's full name , email , salary and department that he works in.

	Column	Data Type	Identity	Nullable	Default
PK	Ins_Id	int			

	Ins_Fname	varchar(20)			
	Ins_Lname	varchar(20)		X	
	Ins_Email	varchar(200)		X	
	Salary	float		X	0
FK	Dept_Id	int		X	

Indexes:

PK_Instructor (Primary Key) (Clustered)

Ins_Id

References:

dbo.Department (Dept_Id)

Referenced by:

dbo.Department (Ins_Id)

dbo.Ins_Course (Ins_Id)

Triggers:

trg_DeleteInstructor (After Delete)

Table dbo.Ques_Choice (97 rows)

Table that contain the question and all choices.

	Column	Data Type	Identity	Nullable	Default
PK, FK	Q_Id	int			
	ch1	varchar(max)			
	ch2	varchar(max)			
	ch3	varchar(max)		X	
	ch4	varchar(max)		X	

Indexes:

PK_Ques_Choice_1 (Primary Key) (Clustered)

Q_Id

References:

dbo.Question (Q_Id)

Table dbo.Question (97 rows)

Table that contain the question , type , it's model answer and the grade.

	Column	Data Type	Identity	Nullable	Default
PK	Q_Id	int	X		
UK	Tittle	varchar(100)			
UK	Answer	varchar(1)			
	Type	varchar(3)			
	Grade	int			
FK	Crs_id	int		X	

Indexes:

PK_Question (Primary Key) (Clustered)

Q_Id

Question_Title_constraint (Unique)

Title
Answer

References:

dbo.Course (Crs_id -> Crs_Id)

Referenced by:

dbo.Ques_Choice (Q_Id)

Table dbo.Stud_Course (72 rows)

Table that contain the course and student in every course and their enroll date.

	Column	Data Type	Identity	Nullable	Default
PK, FK	Crs_Id	int			
PK, FK	St_Id	int			
	Enroll_Date	date		X	

Indexes:

PK_Stud_Course (Primary Key) (Clustered)

St_Id
Crs_Id

References:

dbo.Course (Crs_Id)

dbo.Student (St_Id)

Table dbo.Student (59 rows)

Table that contain all the students and their details and their department

	Column	Data Type	Identity	Nullable	Default
PK	St_Id	int			
	Fname	varchar(20)			
	Lname	varchar(20)		X	
	City	varchar(50)		X	
	Street	varchar(30)		X	
	Phone	varchar(11)			
	BD	date			
	St_Email	varchar(50)			
	Pasword	varchar(20)			
	Gender	varchar(1)		X	
FK	Dept_Id	int		X	

Indexes:

PK_Student (Primary Key) (Clustered)

St_Id

References:

dbo.Department (Dept_Id)

Referenced by:

dbo.Stud_Course (St_Id)

Table dbo.Take_Exam (94 rows)

Table that contain the exam that the student takes , it's questions and his answer.

	Column	Data Type	Identity	Nullable	Default
PK	E_Id	int			
PK	St_Id	int			
PK	Q_Id	int			
	Answer	varchar(1)			

Indexes:

PK_Take_Exam_1 (Primary Key) (Clustered)

St_Id
E_Id
Q_Id

Table dbo.Topic (82 rows)

Table that contain the topic name , id and the course id which contains this topic.

	Column	Data Type	Identity	Nullable	Default
UK	T_Id	int	X		
PK	T_Name	varchar(20)			
PK, FK	Crs_Id	int			

Indexes:

PK__Topic__86C336EB1676585A (Primary Key) (Clustered)

T_Name
Crs_Id

UN_ID (Unique)

T_Id

References:

dbo.Course (Crs_Id)

Procedures:

Procedure dbo.delete_course

Procedure that delete from course table by taking one parameter course_id

Parameter	Data Type	Default	Is Output
@id	int		

Result:

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

Procedure dbo.delete_departement

Procedure that delete from department by taking one parameter department_id

Parameter	Data Type	Default	Is Output
@id	int		

Result:

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

Procedure dbo.delete_exam

Procedure that delete from exam table by taking exam_id

Parameter	Data Type	Default	Is Output
@id	int		

Result:

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

Procedure dbo.delete_instructor

Procedure that delete from instructor by taking one parameter instructor id

Parameter	Data Type	Default	Is Output
@id	int		

Result:

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

Procedure dbo.delete_student

Procedure that delete from student table by taking one parameter student_id

Parameter	Data Type	Default	Is Output
@id	int		

Result:

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

Procedure dbo.insert_course

Procedure that insert into table course and it takes course_id and course_name

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

Result:

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

Procedure dbo.insert_department

Procedure that insert into table Department and it takes department_id , department_name , location and instructor_id

Parameter	Data Type	Default	Is Output
@dept_id	int		
@name	varchar(50)		
@location	varchar(50)		
@instruc_id	int		

Result:

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

Procedure dbo.insert_exam

Procedure that insert into exam and takes exam_id , name , time and course_id

Parameter	Data Type	Default	Is Output
@ex_id	int		
@name	varchar(50)		
@Time	int		
@crs_id	int		

Result:

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

Procedure dbo.insert_instructor

Procedure that insert into table instructor and it takes instructor_id , instructor_fname , instructor_lname , mail , salary , department_id

Parameter	Data Type	Default	Is Output
@id	int		
@fname	varchar(20)		
@lname	varchar(20)		
@mail	varchar(200)		
@salary	float		
@dept_id	int		

Result:

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

Procedure dbo.insert_student

Procedure that insert into table student and it takes student_id , student_fname , lname , city , street , phone , password , email , gender

Parameter	Data Type	Default	Is Output
@st_id	int		
@fname	varchar(50)		
@lname	varchar(50)		
@city	varchar(50)		
@street	varchar(50)		
@phone	varchar(15)		
@password	varchar(50)		
@email	varchar(200)		
@gender	varchar(1)		

Result:

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

Procedure dbo.select_course

Procedure that select from table course by one parameter course_id

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
Crs_Id	int	
Crs_Name	varchar(50)	

Procedure dbo.select_department

Procedure that select from department table by one parameter id

Parameter	Data Type	Default	Is Output
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@id	int		
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Result:

Column	Data Type	Nullable
Dept_Id	int	
Dept_Name	varchar(20)	
Loc	varchar(50)	X
Ins_Id	int	X

Procedure dbo.select_exam

Procedure that select from exam table by using one parameter exam_id

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
Exam_Id	int	
Exam_Name	varchar(50)	
Time	int	
Crs_Id	int	X

Procedure dbo.select_instructor

Procedure that select from instructor table by using one parameter instructor_id

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
Ins_Id	int	
Ins_Fname	varchar(20)	
Ins_Lname	varchar(20)	X
Ins_Email	varchar(200)	X
Salary	float	X
Dept_Id	int	X

Procedure dbo.select_student

Procedure that select from student table by using one parameter student_id

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
St_Id	int	
Fname	varchar(20)	
Lname	varchar(20)	X
City	varchar(50)	X

Street	varchar(30)	X
Phone	varchar(11)	
BD	date	
St_Email	varchar(50)	
Pasword	varchar(20)	
Gender	varchar(1)	X
Dept_Id	int	X

Procedure dbo.SP_COURSE_TOPICS

Procedure that takes course_id and return its topics

Parameter	Data Type	Default	Is Output
@ID	int		

Result:

Column	Data Type	Nullable
T_Name	varchar(20)	

Procedure dbo.SP_DELETE_INSCOURSE

Procedure that delete from instructor_course table by using instructor_id

Parameter	Data Type	Default	Is Output
@INS_ID	int		

Result:

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

Procedure dbo.SP_DELETE_QUES_CHOICE

Procedure that delete from question_choices table by using question_id

Parameter	Data Type	Default	Is Output
@Q_ID	int		

Result:

Column	Data Type	Nullable
(No column name)	nvarchar(4000)	X

Procedure dbo.SP_DELETE_QUESTION

Procedure that delete from question table by using question_id

Parameter	Data Type	Default	Is Output
@ID	int		

Result:

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

Procedure dbo.SP_DELETE_QUESTION_FROM_EXAM

Procedure that delete from question_exam by using two parameters exam_id and question_id

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

Result:

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

Procedure dbo.SP_DELETE_STUD_COURSE

Procedure that delete from student_course by using two parameters course_id and student_id

Parameter	Data Type	Default	Is Output
@CRS_ID	int		
@ST_ID	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(7)	

Procedure dbo.SP_DELETE_TAKE_EXAM

Procedure that delete from take_exam table by using student_id

Parameter	Data Type	Default	Is Output
@ST_ID	int		

Result:

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

Procedure dbo.SP_DELETE_TOPIC

Procedure that delete from topic table by using topic id

Parameter	Data Type	Default	Is Output
@ID	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(16)	

Procedure dbo.SP_Exam_Answers

Procedure that takes the answers and store it in take exam table it takes 12 parameters exam_id , student_name and 10 parameters

Parameter	Data Type	Default	Is Output
@Exam_Id	int		
@Student_Email	varchar(50)		
@A1	varchar(20)		
@A2	varchar(20)		
@A3	varchar(20)		
@A4	varchar(20)		
@A5	varchar(20)		
@A6	varchar(20)		
@A7	varchar(20)		
@A8	varchar(20)		
@A9	varchar(20)		
@A10	varchar(20)		

Result:

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

Procedure dbo.SP_EXAM_CORRECTION

Procedure that correct the exam and return the student grade it takes two parameters student_id and exam_id

Parameter	Data Type	Default	Is Output
@EID	int		
@SID	int		

Result:

Column	Data Type	Nullable
Student_Id	int	X
Exam_Id	int	X
Student_Name	varchar(100)	X
Exam_Name	varchar(100)	X
Student_Answer	varchar(100)	X
Question_Answer	varchar(100)	X
Grade	int	X

Procedure dbo.SP_EXAM_GENERATION

Procedure that generate random exam every time and it takes five parameters course_id , mcq_number , t&F_numbers , exam_name , duration

Parameter	Data Type	Default	Is Output
@CRS_ID	int		
@MCQ_NUM	int		
@TF_NUM	int		
@exam_name	varchar(50)		
@duration	int		

Result:

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

Procedure dbo.SP_INSERT_INSCOURSE

Procedure that insert into instructor_course table by taking two parameter course_id and instructor_id

Parameter	Data Type	Default	Is Output
@CRS_ID	int		
@INS_ID	int		

Result:

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

Procedure dbo.SP_INSERT_QUES_CHOICE

Procedure that insert into Question_choice table by using question_id and four choices

Parameter	Data Type	Default	Is Output
@Q_ID	int		
@CH1	varchar(max)		
@CH2	varchar(max)		
@CH3	varchar(max)		
@CH4	varchar(max)		

Result:

Column	Data Type	Nullable
(No column name)	nvarchar(4000)	X

Procedure dbo.SP_INSERT_QUESTION

Procedure that insert into question table and it takes tittle , answer , type and grade

Parameter	Data Type	Default	Is Output
@T	varchar(100)		
@ANS	varchar(20)		
@TP	varchar(20)		
@G	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(86)	

Procedure dbo.SP_INSERT_QUESTION_TO_EXAM

Procedure that insert into exam_question table that takes question_id and exam_id

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

Result:

Column	Data Type	Nullable
(No column name)	nvarchar(4000)	X

Procedure dbo.SP_INSERT_STUD_COURSE

Procedure that insert into student_course by taking course_id , student_id and enroll_Date

Parameter	Data Type	Default	Is Output
@CRS_ID	int		
@ST_ID	int		
@ENROLL_DATE	date		

Result:

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

Procedure dbo.SP_INSERT_TAKE_EXAM

Procedure that insert into take_exam table by using exam_id,student_id,question_id and answer

Parameter	Data Type	Default	Is Output
@E_ID	int		
@ST_ID	int		
@Q_ID	int		
@ANSWER	varchar(10)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(10)	

Procedure dbo.SP_INSERT_TOPIC

Procedure that insert into topic table by taking topicname and course_id

Parameter	Data Type	Default	Is Output
@TN	varchar(20)		
@CID	int		

Result:

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

Procedure dbo.SP_INSTRUCTOR_COURSES

Procedure that takes instructor_id and display course_name , student_number

Parameter	Data Type	Default	Is Output
@ID	int		

Result:

Column	Data Type	Nullable
Crs_Name	varchar(50)	
STUDENT_NUMBER	int	X

Procedure dbo.SP_SELECT_INSCOURSE

Procedure to select from instructor_course by using instructor_id

Parameter	Data Type	Default	Is Output
@INS_ID	int		

Result:

Column	Data Type	Nullable
INS_Full_Name	varchar(41)	X
Crs_Name	varchar(50)	

Procedure dbo.SP_SELECT_QUES_CHOICE

Procedure that select from question_choice table by using question_id

Parameter	Data Type	Default	Is Output
@Q_ID	int		

Result:

Column	Data Type	Nullable
Q_Id	int	
Tittle	varchar(100)	
ch1	varchar(max)	
ch2	varchar(max)	
ch3	varchar(max)	X
ch4	varchar(max)	X
Answer	varchar(1)	
Type	varchar(3)	
Grade	int	

Procedure dbo.SP_SELECT_QUESTION

Procedure that select from from question table by using question_id

Parameter	Data Type	Default	Is Output
@ID	int		

Result:

Column	Data Type	Nullable
Q_Id	int	
Tittle	varchar(100)	
Answer	varchar(1)	
Type	varchar(3)	
Grade	int	
Crs_id	int	X

Procedure dbo.SP_SELECT_QUESTIONS_OF_EXAM

Procedure that select question of exam by using exam_id

Parameter	Data Type	Default	Is Output
@EID	int		

Result:

Column	Data Type	Nullable
Question	varchar(100)	
A	varchar(max)	
B	varchar(max)	
C	varchar(max)	X
D	varchar(max)	X
Answer	varchar(1)	
Grade	int	

Procedure dbo.SP_SELECT_STUD_COURSE

Procedure that select from student_course by any column it take column name and value

Parameter	Data Type	Default	Is Output
@COLNAME	nvarchar(max)		
@VALUE	int		

Result:

Column	Data Type	Nullable
(No column name)	nvarchar(4000)	X

Procedure dbo.SP_SELECT_TAKE_EXAM

Procedure that select from take_exam table by using student_id

Parameter	Data Type	Default	Is Output
@ST_ID	int		

Result:

Column	Data Type	Nullable
Student_FullName	varchar(41)	X
Exam_Name	varchar(50)	
Question_Tittle	varchar(100)	
Answer	varchar(1)	

Procedure dbo.SP_SELECT_TAKE_EXAM_BY_EXAM_NUMBER

Procedure that select from take_exam by student_id and exam_id

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@EN	int		

Result:

Column	Data Type	Nullable
Student_FullName	varchar(41)	X
Exam_Name	varchar(50)	
Question_Tittle	varchar(100)	
Answer	varchar(1)	

Procedure dbo.SP_SELECT_TOPIC

Procedure that select from topic table by using topic_id

Parameter	Data Type	Default	Is Output
@ID	int		

Result:

Column	Data Type	Nullable
T_Id	int	
T_Name	varchar(20)	
Crs_Id	int	

Procedure dbo.SP_STUDENTS_GRADS

Procedure that takes student_id and it display student_grade and course_name

Parameter	Data Type	Default	Is Output
@SID	int		

Result:

Column	Data Type	Nullable
TOTAL	nvarchar(4000)	X
Crs_Name	varchar(50)	

Procedure dbo.SP_STUDENTS_IN_DEPARTMENT

Procedure that takes department number and it display the students in this department

Parameter	Data Type	Default	Is Output
@DNO	int		

Result:

Column	Data Type	Nullable
St_Id	int	
Fname	varchar(20)	
Lname	varchar(20)	X
City	varchar(50)	X
Street	varchar(30)	X
Phone	varchar(11)	
BD	date	
St_Email	varchar(50)	
Pasword	varchar(20)	
Gender	varchar(1)	X
Dept_Id	int	X

Procedure dbo.SP_UPDATE_INSCOURSE

Procedure that uodate any column in instructor_course it takes instructor_id , column_name and its value

Parameter	Data Type	Default	Is Output
@INS_ID	int		
@COL	varchar(50)		
@VALUE	nvarchar(50)		

Result:

Column	Data Type	Nullable
Message_	varchar(28)	

Procedure dbo.SP_UPDATE_QUES_CHOICE

Procedure that updates the question_choice table any column it takes the question_id and column name and its value

Parameter	Data Type	Default	Is Output
@Q_ID	int		
@COL	varchar(50)		
@VALUE	nvarchar(max)		

Result:

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

Procedure dbo.SP_UPDATE_QUESTION

Procedure that update question table it takes question_id , type , column_name , new_data

Parameter	Data Type	Default	Is Output
@ID	int		
@TP	varchar(3)		
@CN	varchar(20)		
@ND	varchar(100)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(86)	

Procedure dbo.SP_UPDATE_QUESTION_IN_EXAM

Procedure that update questions it takes exam_id , question_id ,column_name , data

Parameter	Data Type	Default	Is Output
@EID	int		
@QID	int		
@CNAME	varchar(20)		
@DATA	int		

Result:

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

Procedure dbo.SP_UPDATE_STUD_COURSE

Procedure that update student_course table it takes student_id , course_id ,column_name and its value

Parameter	Data Type	Default	Is Output
@COL	nvarchar(max)		
@VALUE	nvarchar(max)		
@ST_ID	int		
@CRS_ID	int		

Result:

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

Procedure dbo.SP_UPDATE_TAKE_EXAM

Procedure that update take exam table it takes student_id ,column_name and its value

Parameter	Data Type	Default	Is Output
@ST_ID	int		
@COL	varchar(50)		
@VALUE	nvarchar(50)		

Result:

Column	Data Type	Nullable
Message_	varchar(28)	

Procedure dbo.SP_UPDATE_TOPIC

Procedure that update topic table it takes the topic_id , column_name and its value

Parameter	Data Type	Default	Is Output
@CN	varchar(20)		
@ND	varchar(20)		
@ID	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(16)	

Procedure dbo.update_course

Procedure that update course table it takes the course_id and course_name

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

Result:

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

Procedure dbo.update_departement

Procedure that update department table by taking department id , column nmae and its value

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

Result:

Column	Data Type	Nullable
Message	varchar(39)	

Procedure dbo.update_exam

Procedure that update exam table it takes the exam_id , column_name and its value

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

Result:

Column	Data Type	Nullable
Message	varchar(33)	

Procedure dbo.update_instructor

Procedure that update instructor table by taking instructor_id , column name and its value

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

Result:

Column	Data Type	Nullable
Message	varchar(39)	

Procedure dbo.update_student

Procedure that update student table by taking student_id , column_name and its value

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

@value	varchar(50)		
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Result:

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