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# Examination System Database project


























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## Legend

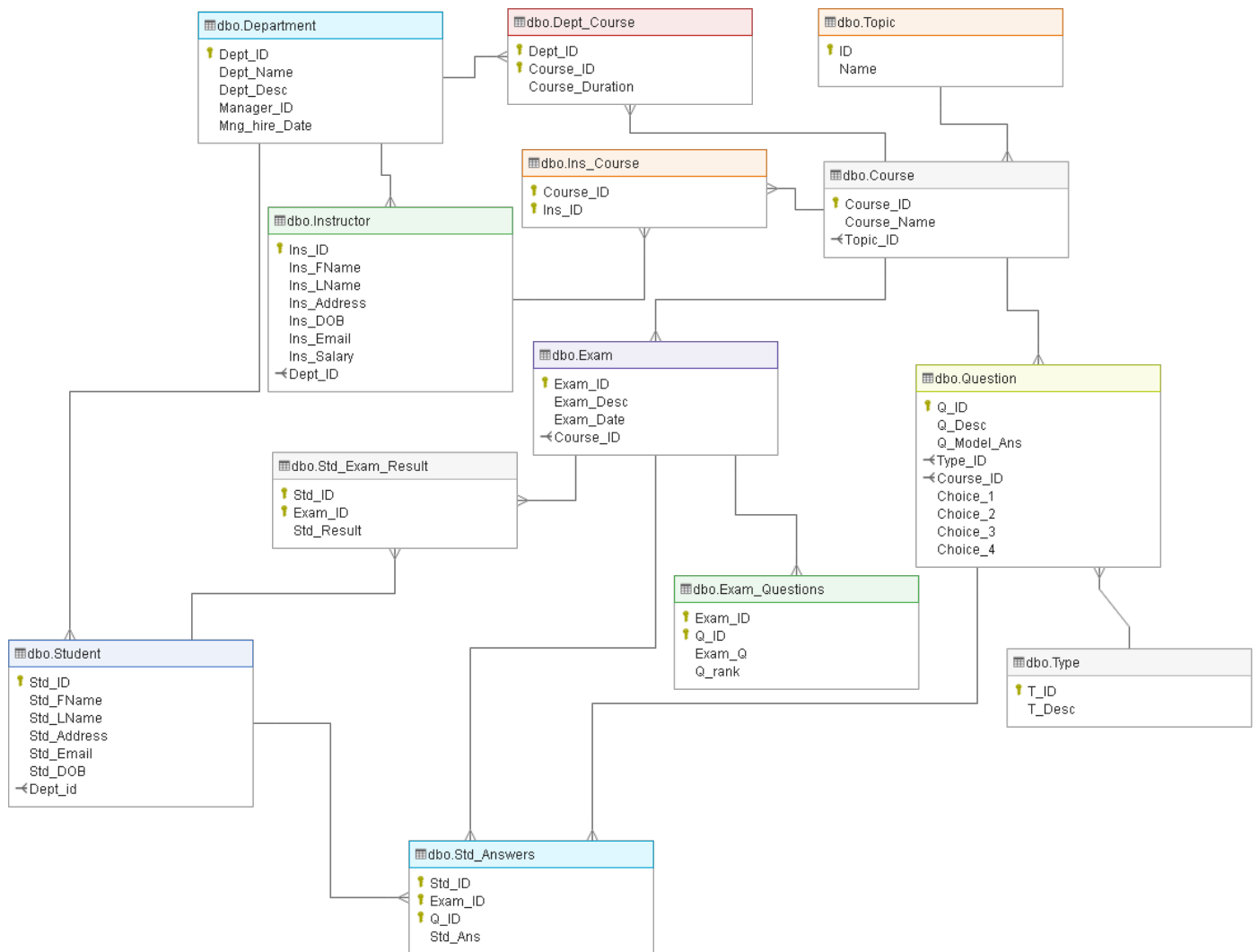
-  Primary key
-  Primary key disabled
-  User-defined primary key
-  Unique key
-  Unique key disabled
-  User-defined unique key
-  Active trigger
-  Disabled trigger
-  Many to one relation
-  User-defined many to one relation
-  One to many relation
-  User-defined one to many relation
-  One to one relation
-  User-defined one to one relation
-  Input
-  Output
-  Input/Output
-  Uses dependency
-  User-defined uses dependency
-  Used by dependency
-  User-defined used by dependency

## Database examination system

This project is designed for an examination system that takes place using random questions in different courses that are being taught by multiple instructors to multiple students in different departments.

It also generates for the students random exams and they answer them online, then we take their answers, correct their exams and give them grades related to each subject they have had exams in it.

## 1. ERD



The diagram shows relations between all the entities of the project and the connection between them and column names.



## 2. Other




### 2.1. Tables

#### 2.1.1. Table: dbo.Course


**Status:** Active

The course plays an important role in the examination system as it is connected to more than one table such as the department, Exams, instructors, topic & questions.





#### Columns

Name		Data type	Description / Attributes
	Course_ID	int	Identity / Auto increment
	Course_Name	nvarchar(50)	Nullable
	Topic_ID	int	Nullable References: dbo.Topic


#### Links to

Table	Join	Title / Name / Description
 dbo.Topic	dbo.Course.Topic_ID = dbo.Topic.ID	FK_Courses_Topic



#### Linked from

Table	Join	Title / Name / Description
 dbo.Dept_Course	dbo.Course.Course_ID = dbo.Dept_Course.Course_ID	FK_Dept_Course_Course
 dbo.Exam	dbo.Course.Course_ID = dbo.Exam.Course_ID	FK_Exams_Courses
 dbo.Ins_Course	dbo.Course.Course_ID = dbo.Ins_Course.Course_ID	FK_Ins_Course_Course
 dbo.Question	dbo.Course.Course_ID = dbo.Question.Course_ID	FK_Question_Course





#### Unique keys













Columns	Name / Description
 Course_ID	PK_Courses

#### Uses

Name
 <b>dbo.Course</b>
 dbo.Topic

#### Used By

Name
 <b>dbo.Course</b>
 dbo.INSERTINTOCOURSES
 dbo.SP_DELETECOURSE
 dbo.Sp_GenerateExam






Name
 dbo.SP_INSERTDEPARTMENTCOURSE
 dbo.SP_INSERTINSCOURSES
 dbo.SP_INSERTINTOEXAM
 dbo.SP_INSERTQUESTION
 dbo.SP_RP_COURSETOPIC
 dbo.SP_RP_INSTRUCTORCOURSESWITHSTUDENT
 dbo.SP_SELECTALLCOURSESINDEPARTMENT
 dbo.SP_SELECTFROMCOURSE
 dbo.SP_SELECTINSCOURSE
 dbo.SP_SELECTQUESTION
 dbo.SP_SELECTSTUDENTRESULTS
 dbo.SP_UPDATECOURSE
→< dbo.Dept_Course
→< dbo.Exam
→< dbo.Ins_Course
→< dbo.Question

## 2.1.2. Table: dbo.Department

**Status:** Active

The Department is the connection between the instructors and the students.


### Columns

	Name	Data type	Description / Attributes
	Dept_ID	int	Identity / Auto increment
	Dept_Name	nvarchar(50)	
	Dept_Desc	nvarchar(50)	Nullable
	Manager_ID	int	Nullable
	Mng_hire_Date	date	Nullable












### Linked from

	Table	Join	Title / Name / Description
←	dbo.Dept_Course	<b>dbo.Department</b> .Dept_ID = dbo.Dept_Course.Dept_ID	FK_Dept_Course_Department
←	dbo.Instructor	<b>dbo.Department</b> .Dept_ID = dbo.Instructor.Dept_ID	FK_Instructor_Department
←	dbo.Student	<b>dbo.Department</b> .Dept_ID = dbo.Student.Dept_id	FK_Student_Department

### Unique keys

Columns	Name / Description
 Dept_ID	PK_Department

### Used By




Name
 <b>dbo.Department</b>
 dbo.INSERTINTODEP
 dbo.SP_INSERTDEPARTMENTCOURSE
 dbo.SP_INSERTINTOINST
 dbo.SP_INSERTINTOSTD
 dbo.SP_RP_INSTRUCTORCOURSESWITHSTUDENT
 dbo.SP_RP_STDINF
 dbo.SP_SELECTALLCOURSESINDEPARTMENT
 dbo.SP_SELECTFROMDEP
 dbo.SP_UPDATEDEP
 dbo.SP_UPDATEDEPMANAGER
← dbo.Dept_Course
← dbo.Instructor
← dbo.Student

### 2.1.3. Table: dbo.Dept\_Course



**Status:** Active

The table illustrates the relation between the Department and the course.


#### Columns

Name		Data type	Description / Attributes
	Dept_ID	int	<b>References:</b> dbo.Department
	Course_ID	int	<b>References:</b> dbo.Course
	Course_Duration	nvarchar(50)	<b>Nullable</b>




#### Links to

Table	Join	Title / Name / Description
 dbo.Course	<b>dbo.Dept_Course.Course_ID =</b> dbo.Course.Course_ID	FK_Dept_Course_Course
 dbo.Department	<b>dbo.Dept_Course.Dept_ID =</b> dbo.Department.Dept_ID	FK_Dept_Course_Department






#### Unique keys

Columns	Name / Description
 Dept_ID, Course_ID	PK_Dept_Course

#### Uses

Name
 <b>dbo.Dept_Course</b>
 dbo.Course
 dbo.Department

#### Used By





Name
 <b>dbo.Dept_Course</b>
 dbo.SP_DELETEDEPARTMENTCOURSE
 dbo.SP_INSERTDEPARTMENTCOURSE
 dbo.SP_SELECTALLCOURSESINDEPARTMENT
 dbo.SP_UPDATEDEPTCOURSESDDURATION

## 2.1.4. Table: dbo.Exam

**Status:** Active

The exam is connected to the course, questions and the student.




### Columns

Name		Data type	Description / Attributes
	Exam_ID	int	Identity / Auto increment
	Exam_Desc	nvarchar(50)	Nullable
	Exam_Date	date	Nullable
	Course_ID	int	References: dbo.Course


### Links to

Table	Join	Title / Name / Description
 dbo.Course	<b>dbo.Exam</b> .Course_ID = dbo.Course.Course_ID	FK_Exams_Courses



### Linked from

Table	Join	Title / Name / Description
 dbo.Exam_Questions	<b>dbo.Exam</b> .Exam_ID = dbo.Exam_Questions.Exam_ID	FK_Exam_Questions_Exam
 dbo.Std_Answers	<b>dbo.Exam</b> .Exam_ID = dbo.Std_Answers.Exam_ID	FK_Std_Answers_Exam
 dbo.Std_Exam_Result	<b>dbo.Exam</b> .Exam_ID = dbo.Std_Exam_Result.Exam_ID	FK_Std_Exam_Result_Exam









### Unique keys




Columns	Name / Description
 Exam_ID	PK_Exams

### Uses

Name
 <b>dbo.Exam</b>
 dbo.Course

### Used By

Name
 <b>dbo.Exam</b>
 dbo.SP_DELETEEXAM
 dbo.Sp_GenerateExam
 dbo.SP_INSERTINTOEXAM
 dbo.SP_RP_SELECTEXAMQUESTIONWITHCHOICES
 dbo.SP_RP_SELECTSTDANSWERS
 dbo.SP_SELECTEXAMQUESTION
 dbo.SP_SELECTFROMEXAM







Name
 dbo.SP_SELECTSTDANSWERS
 dbo.SP_SELECTSTUDENTRESULTS
 dbo.SP_UPDATEEXAMDATE
← dbo.Exam_Questions
← dbo.Std_Answers
← dbo.Std_Exam_Result

## 2.1.5. Table: dbo.Exam\_Questions


**Status:** Active

This relation illustrates the connection between exam and the question.

### Columns

Name		Data type	Description / Attributes
 	Exam_ID	int	<b>References:</b> dbo.Exam
 	Q_ID	int	
	Exam_Q	nvarchar(250)	
	Q_rank	int	<b>Nullable</b>



### Links to

Table	Join	Title / Name / Description
 dbo.Exam	<b>dbo.Exam_Questions.Exam_ID =</b> dbo.Exam.Exam_ID	FK_Exam_Questions_Exam






### Unique keys

Columns	Name / Description
 Exam_ID, Q_ID	PK_Exam_Questions

### Uses

Name
 <b>dbo.Exam_Questions</b>
 dbo.Exam

### Used By





Name
 <b>dbo.Exam_Questions</b>
 dbo.Sp_GenerateExam
 dbo.SP_RP_SELECTEXAMQUESTIONWITHCHOICES
 dbo.SP_SELECTEXAMQUESTION
 dbo.SP_UPDATEEXAMQUESTION

## 2.1.6. Table: dbo.Ins\_Course



**Status:** Active

This relation illustrates the connection between the instructor and the course.


### Columns

Name		Data type	Description / Attributes
	 Course_ID	int	<b>References:</b> dbo.Course
	 Ins_ID	int	<b>References:</b> dbo.Instructor




### Links to

Table	Join	Title / Name / Description
 dbo.Course	<b>dbo.Ins_Course</b> .Course_ID = dbo.Course.Course_ID	FK_Ins_Course_Course
 dbo.Instructor	<b>dbo.Ins_Course</b> .Ins_ID = dbo.Instructor.Ins_ID	FK_Ins_Course_Instructor







### Unique keys

Columns	Name / Description
 Course_ID, Ins_ID	PK_Ins_Course

### Uses

Name
 <b>dbo.Ins_Course</b>
 dbo.Course
 dbo.Instructor

### Used By

Name
 <b>dbo.Ins_Course</b>
 dbo.SP_DELETEINSCOURSE
 dbo.SP_INSERTINSCOURSES
 dbo.SP_RP_INSTRUCTORCOURSESWITHSTUDENT
 dbo.SP_SELECTINSCOURSE
 dbo.SP_UPDATEINSCOURSE











## 2.1.7. Table: dbo.Instructor


**Status:** Active

The instructor has relation between the department and the course.

### Columns

Name		Data type	Description / Attributes
	Ins_ID	int	Identity / Auto increment
	Ins_FName	nvarchar(50)	Nullable
	Ins_LName	nvarchar(50)	Nullable
	Ins_Address	nvarchar(50)	Nullable
	Ins_DOB	date	Nullable
	Ins_Email	nvarchar(50)	Nullable
	Ins_Salary	int	Nullable
	Dept_ID	int	Nullable References: dbo.Department


### Links to

Table	Join	Title / Name / Description
 dbo.Department	dbo.Instructor.Dept_ID = dbo.Department.Dept_ID	FK_Instructor_Department



### Linked from

Table	Join	Title / Name / Description
 dbo.Ins_Course	dbo.Instructor.Ins_ID = dbo.Ins_Course.Ins_ID	FK_Ins_Course_Instructor







### Unique keys






Columns	Name / Description
 Ins_ID	PK_Instructor

### Uses

Name
 <b>dbo.Instructor</b>
 dbo.Department

### Used By

Name
 <b>dbo.Instructor</b>
 dbo.INSERTINTODEP
 dbo.SP_DELETEINSTRUCTOR
 dbo.SP_INSERTINSCOURSES
 dbo.SP_INSERTINTOINST
 dbo.SP_RP_INSTRUCTORCOURSESWITHSTUDENT










Name
 dbo.SP_SELECTFROMINST
 dbo.SP_SELECTINSCOURSE
 dbo.SP_UPDATEDEPMANAGER
 dbo.SP_UPDATEINSCOURSE
 dbo.SP_UPDATEINSTRUCTOR
← dbo.Ins_Course

## 2.1.8. Table: dbo.Question



**Status:** Active

The question inside each exam has 2 types either MCQ or true/false, they are generated depending on the course and the exam number.

### Columns

Name		Data type	Description / Attributes
	Q_ID	int	Identity / Auto increment
	Q_Desc	nvarchar(250)	Nullable
	Q_Model_Ans	char(1)	Nullable
	Type_ID	int	References: dbo.Type
	Course_ID	int	References: dbo.Course
	Choice_1	char(250)	Nullable
	Choice_2	char(250)	Nullable
	Choice_3	char(250)	Nullable
	Choice_4	char(250)	Nullable


### Links to

Table	Join	Title / Name / Description
 dbo.Course	<b>dbo.Question.Course_ID</b> = dbo.Course.Course_ID	FK_Question_Course
 dbo.Type	<b>dbo.Question.Type_ID</b> = dbo.Type.T_ID	FK_Question_Type




### Linked from

Table	Join	Title / Name / Description
 dbo.Std_Answers	<b>dbo.Question.Q_ID</b> = dbo.Std_Answers.Q_ID	FK_Std_Answers_Question




### Unique keys










Columns	Name / Description
 Q_ID	PK_Question

### Uses

Name
 <b>dbo.Question</b>
 dbo.Course
 dbo.Type

### Used By

Name
 <b>dbo.Question</b>
 dbo.SP_DELETEFROMQUESTION
 dbo.Sp_GenerateExam








Name
 dbo.SP_INSERTQUESTION
 dbo.SP_RP_SELECTEXAMQUESTIONWITHCHOICES
 dbo.SP_RP_SELECTSTDANSWERS
 dbo.SP_SELECTEXAMQUESTION
 dbo.SP_SELECTQUESTION
 dbo.SP_SELECTSTDANSWERS
 dbo.SP_UBDATEQUESTIONTYPE_OR_QUESTION
 dbo.SP_UPDATEEXAMQUESTION
 dbo.Std_Answers

## 2.1.9. Table: dbo.Std\_Answers




**Status:** Active

This table illustrates the relation between the student, the exam and the questions inside the axam.


### Columns

Name		Data type	Description / Attributes
	 Std_ID	int	<b>References:</b> dbo.Student
	 Exam_ID	int	<b>References:</b> dbo.Exam
	 Q_ID	int	<b>References:</b> dbo.Question
	Std_Ans	char(1)	





### Links to

Table	Join	Title / Name / Description
 dbo.Exam	<b>dbo.Std_Answers.Exam_ID =</b> dbo.Exam.Exam_ID	FK_Std_Answers_Exam
 dbo.Question	<b>dbo.Std_Answers.Q_ID =</b> dbo.Question.Q_ID	FK_Std_Answers_Question
 dbo.Student	<b>dbo.Std_Answers.Std_ID =</b> dbo.Student.Std_ID	FK_Std_Answers_Student




### Unique keys

Columns	Name / Description
 Std_ID, Exam_ID, Q_ID	PK_Std_Answers

### Uses

Name
 <b>dbo.Std_Answers</b>
 dbo.Exam
 dbo.Question
 dbo.Student

### Used By




Name
 <b>dbo.Std_Answers</b>
 dbo.SP_RP_SELECTSTDANSWERS
 dbo.SP_SELECTSTDANSWERS

## 2.1.10. Table: dbo.Std\_Exam\_Result



**Status:** Active

This table illustrates the relation between the student, the exam and the results of that exam.

### Columns

Name		Data type	Description / Attributes
	Std_ID	int	<b>References:</b> dbo.Student
	Exam_ID	int	<b>References:</b> dbo.Exam
	Std_Result	int	




### Links to

Table	Join	Title / Name / Description
 dbo.Exam	<b>dbo.Std_Exam_Result.Exam_ID =</b> dbo.Exam.Exam_ID	FK_Std_Exam_Result_Exam
 dbo.Student	<b>dbo.Std_Exam_Result.Std_ID =</b> dbo.Student.Std_ID	FK_Std_Exam_Result_Student



### Unique keys

Columns	Name / Description
 Std_ID, Exam_ID	PK_Std_Exam_Result

### Uses

Name
 <b>dbo.Std_Exam_Result</b>
 dbo.Exam
 dbo.Student

### Used By








Name
 <b>dbo.Std_Exam_Result</b>
 <b>dbo.SP_SELECTSTUDENTRESULTS</b>

### 2.1.11. Table: dbo.Student


**Status:** Active

This table illustrates the relation between the student, the answers, the exam results and the department.



#### Columns

Name		Data type	Description / Attributes
	Std_ID	int	Identity / Auto increment
	Std_FName	nvarchar(50)	Nullable
	Std_LName	nvarchar(50)	Nullable
	Std_Address	nvarchar(80)	Nullable
	Std_Email	nvarchar(50)	Nullable
	Std_DOB	date	Nullable
	Dept_id	int	Nullable References: dbo.Department


#### Links to

Table	Join	Title / Name / Description
 dbo.Department	<b>dbo.Student</b> .Dept_id = dbo.Department.Dept_ID	FK_Student_Department



#### Linked from

Table	Join	Title / Name / Description
 dbo.Std_Answers	<b>dbo.Student</b> .Std_ID = dbo.Std_Answers.Std_ID	FK_Std_Answers_Student
 dbo.Std_Exam_Result	<b>dbo.Student</b> .Std_ID = dbo.Std_Exam_Result.Std_ID	FK_Std_Exam_Result_Student







#### Unique keys








Columns	Name / Description
 Std_ID	PK_Student

#### Uses

Name
 <b>dbo.Student</b>
 dbo.Department

#### Used By

Name
 <b>dbo.Student</b>
 dbo.SP_DELETESTUDENT
 dbo.SP_INSERTINTOSTD
 dbo.SP_RP_INSTRUCTORCOURSESWITHSTUDENT
 dbo.SP_RP_SELECTSTDANSWERS
 dbo.SP_RP_STDINF

Name	
	dbo.SP_SELECTFROMSTD
	dbo.SP_SELECTSTDANSWERS
	dbo.SP_SELECTSTUDENTRESULTS
	dbo.SP_UPDATESTDADDRESS
	dbo.SP_UPDATESTDEMAIL
	dbo.Std_Answers
	dbo.Std_Exam_Result






## 2.1.12. Table: dbo.Topic


**Status:** Active

This table illustrates the relation between each course and the topics of it.

### Columns

Name		Data type	Description / Attributes
	 ID	int	Identity / Auto increment
	Name	nvarchar(50)	Nullable









### Linked from

Table	Join	Title / Name / Description
 dbo.Course	dbo.Topic.ID = dbo.Course.Topic_ID	FK_Courses_Topic

### Unique keys

Columns	Name / Description
 ID	PK_Topic

### Used By




Name
 <b>dbo.Topic</b>
 dbo.INSERTINTOTOPIC
 dbo.SELECTFROMTOPIC
 dbo.SP_DELETETOPIC
 dbo.SP_RP_COURSETOPIC
 dbo.SP_UPDATEINTOTOPIC
 dbo.SP_UPDATETOPIC
 dbo.Course

### 2.1.13. Table: dbo.Type


**Status:** Active

This table illustrates the relation between each question and its type.


#### Columns

Name		Data type	Description / Attributes
 	T_ID	int	Identity / Auto increment
	T_Desc	nvarchar(50)	Nullable









#### Linked from

Table	Join	Title / Name / Description
 dbo.Question	<b>dbo.Type.T_ID =</b> dbo.Question.Type_ID	FK_Question_Type

#### Unique keys

Columns	Name / Description
 T_ID	PK_Type

#### Used By

Name
 <b>dbo.Type</b>
 dbo.INSERTINTOTYPE
 dbo.SELECTFROMTYPE
 dbo.SP_DELETETYPE
 dbo.SP_INSERTQUESTION
 dbo.SP_UBDATEQUESTIONTYPE_OR_QUESTION
 dbo.SP_UPDATETYPE
 dbo.Question

## 2.2. Procedures

### 2.2.1. Procedure: dbo.INSERTINTOCOURSES



**Status:** Active

This stored procedure is created to insert into the courses table the name and the ID.

#### Input/Output

	Name	Data type	Description
→@	C_name	nvarchar(50)	
→@	T_ID	int	

#### Uses

Name
 <b>dbo.INSERTINTOCOURSES</b>
 <b>dbo.Course</b>

#### Script

```
CREATE proc [dbo].[INSERTINTOCOURSES] (@C_name nvarchar(50) , @T_ID int )
as
insert into Course (Course_Name,Topic_ID)
values (@C_name , @T_ID)
```

## 2.2.2. Procedure: dbo.INSERTINTODEP




**Status:** Active

This stored procedure is created to insert into the department table the name, description, ID and hiring date of the managers.

### Input/Output

	Name	Data type	Description
→@	name	nvarchar(50)	
→@	Desc	nvarchar(50)	
→@	id	int	
→@	Hire_D	date	

### Uses

Name
 <b>dbo.INSERTINTODEP</b>
 <b>dbo.Department</b>
 <b>dbo.Instructor</b>

### Script

```
CREATE proc [dbo].[INSERTINTODEP] (@name nvarchar(50),@Desc nvarchar(50) , @id int = null , @Hire_D date = null )
as
if @id is null
begin
    insert into Department values (@name ,@Desc ,@id ,@Hire_D )
end
else
begin
    if exists(select ins.Ins_ID from Instructor as ins where ins.Ins_ID=@id)
        insert into Department values (@name ,@Desc ,@id ,@Hire_D )
    else
        begin
            select 'There is no instructor with this id'
        end
    end
end
```

### 2.2.3. Procedure: dbo.INSERTINTOTOPIC

**Status:** Active

This stored procedure is created to insert into the topic, its name.

#### Input/Output

Name		Data type	Description
→@	name	nvarchar(50)	

#### Uses

Name	
⚙	dbo.INSERTINTOTOPIC
📊	dbo.Topic

#### Script

```
create proc [dbo].[INSERTINTOTOPIC] (@name nvarchar (50))
as
insert into Topic (Name)
values (@name)
```

## 2.2.4. Procedure: dbo.INSERTINTOTYPE

**Status:** Active

This stored procedure is created to insert into the question the type f it.

### Input/Output

Name		Data type	Description
→@	name	nvarchar(50)	

### Uses

Name	
⚙	dbo.INSERTINTOTYPE
📊	dbo.Type

### Script

```
create proc [dbo].[INSERTINTOTYPE] (@name nvarchar (50))
as
insert into Type (T_Desc)
values (@name)
```

2.2.5. Procedure: dbo.SELECTFROMTOPIC

Status: Active

Input/Output

Name		Data type	Description
➔@	SEARCH	nvarchar(50)	

Uses

Name	
⚙️	dbo.SELECTFROMTOPIC
📄	dbo.Topic

Script

```
CREATE proc [dbo].[SELECTFROMTOPIC] (@SEARCH nvarchar(50))
as
if (ISNUMERIC(@SEARCH)=1)
begin
declare @id int;
select @id = CONVERT(int,@SEARCH)
end
select * from Topic as T
where t.name =@SEARCH or t.ID=@id
```

## 2.2.6. Procedure: dbo.SELECTFROMTYPE

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	SEARCH	nvarchar(50)	

### Uses

Name
⚙️ dbo.SELECTFROMTYPE
📊 dbo.Type

### Script

```
create proc [dbo].[SELECTFROMTYPE] (@SEARCH nvarchar(50))
as
if (ISNUMERIC(@SEARCH)=1)
begin
declare @id int;
select @id = CONVERT(int,@SEARCH)
end
select * from Type as T
where t.T_Desc=@SEARCH or T_ID=@id
```



## 2.2.7. Procedure: dbo.SP\_DELETECOURSE

**Status:** Active

This stored procedure is created to delete from the course name and the ID.

### Input/Output

Name		Data type	Description
→@	Selector	nvarchar(50)	

### Uses

Name	
⚙️	dbo.SP_DELETECOURSE
📊	dbo.Course

### Script

```
create proc [dbo].[SP_DELETECOURSE] (@Selector nvarchar(50))
as
if(ISNUMERIC(@Selector) = 1)
begin
declare @id int
select @id = CONVERT(int,@Selector)
delete from Course where Course_ID=@id
end
else
begin
delete from Course where Course_Name=@Selector
end
```

## 2.2.8. Procedure: dbo.SP\_DELETEDEPARTMENTCOURSE

**Status:** Active

### Input/Output

	Name	Data type	Description
➔@	deo_ID	nvarchar(50)	
➔@	course_ID	nvarchar(50)	

### Uses

Name
⚙️ <b>dbo.SP_DELETEDEPARTMENTCOURSE</b>
📊 <b>dbo.Dept_Course</b>

### Script

```
CREATE proc [dbo].[SP_DELETEDEPARTMENTCOURSE] (@deo_ID nvarchar(50) , @course_ID nvarchar(50))
as
    if (ISNUMERIC(@deo_ID)=1)
        begin
            if (ISNUMERIC(@course_ID)=1)
                begin
                    if exists (select * from Dept_Course as dc where dc.Dept_ID=@deo_ID
                                and dc.Course_ID=@course_ID)
                        begin
                            delete from Dept_Course where Dept_ID=@deo_ID
                                and Course_ID=@course_ID
                        end
                    else
                        begin
                            select 'check you data, no data with your
                                Inputs'
                        end
                    end
                end
            else
                begin
                    select 'enter a valid data to continue'
                end
            end
        end
```

2.2.9. Procedure: dbo.SP\_DELETEEXAM

Status: Active

Input/Output

Name		Data type	Description
→@	Selector	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_DELETEEXAM
📄	dbo.Exam

Script

```
create proc [dbo].[SP_DELETEEXAM] (@Selector nvarchar(50))
as
    if (ISNUMERIC(@Selector) =1)
        begin
            declare @id int;
            select @id = convert(int , @selector)
            if exists (select * from Exam where Exam_ID=@id)
                begin
                    delete from Exam where Exam_ID=@id
                    select 'Done, The Exam with id :'+
'+convert(nvarchar(50),@id)+ ' '+'is deleted'
                end
            else
                begin
                    select 'There is no Exam with this ID : ' +
convert(nvarchar(50),@id)
                end
        end
    end
```

## 2.2.10. Procedure: dbo.SP\_DELETEFROMQUESTION

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	QUESTION	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_DELETEFROMQUESTION
📊 dbo.Question

### Script

```
CREATE proc [dbo].[SP_DELETEFROMQUESTION] (@QUESTION nvarchar(50))
as
    if (ISNUMERIC(@QUESTION)=0)
        begin
            if exists(select * from Question where Q_Desc=@QUESTION)
                begin
                    delete from Question where Q_Desc=@QUESTION
                    select 'This question is deleted :'+@QUESTION
                end
            else
                begin
                    select 'No Question with this Entry : '+@QUESTION
                end
            end
        else
            BEGIN
                SELECT      'Check your data !!!'
            END
```

## 2.2.11. Procedure: dbo.SP\_DELETEINSCOURSE

**Status:** Active

### Input/Output

Name		Data type	Description
➔@	isn_ID	nvarchar(50)	
➔@	course_ID	nvarchar(50)	

### Uses

Name
⚙️ <b>dbo.SP_DELETEINSCOURSE</b>
📊 <b>dbo.Ins_Course</b>

### Script

```
create proc [dbo].[SP_DELETEINSCOURSE] (@isn_ID nvarchar(50), @course_ID nvarchar(50))
as
    if (ISNUMERIC(@isn_ID)=1)
        begin
            if (ISNUMERIC(@course_ID)=1)
                begin
                    if exists (select * from Ins_Course as ic where
                                ic.Course_ID=@course_ID and ic.Ins_ID=@isn_ID)
                        begin
                            delete from Ins_Course where
                                Course_ID=@course_ID and Ins_ID=@isn_ID
                            select 'These data are deleted :
                                course_ID -> '+@course_ID+' ins_ID -> '+@isn_ID
                        end
                    else
                        begin
                            select 'There is no data with this
                                selectors !!!'
                        end
                end
            else
                begin
                    select 'Check the data !!!'
                end
        end
    else
        begin
            select 'Check the data !!!'
        end
end
```

2.2.12. Procedure: dbo.SP\_DELETEINSTRUCTOR

Status: Active

Input/Output

Name		Data type	Description
➔@	Selector	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_DELETEINSTRUCTOR
📊	dbo.Instructor

Script

```
create proc [dbo].[SP_DELETEINSTRUCTOR] (@Selector nvarchar(50))
as
    if (ISNUMERIC(@Selector) =1)
        begin
            declare @id int;
            select @id = convert(int , @selector)
                if exists (select * from Instructor where Ins_ID=@id)
                    begin
                        delete from Instructor where Ins_ID=@id
                        select 'Done, The Instructor with id :'+
'+convert(nvarchar(50),@id)+' '+'is deleted'
                    end
                else
                    begin
                        select 'There is no Instructor with this ID : ' +
convert(nvarchar(50),@id)
                    end
            end
        else
            begin
                if exists (select * from Instructor where (Ins_FName+' '+Ins_LName) =@Selector)
                    begin
                        delete from Instructor where (Ins_FName+' '+Ins_LName) =@Selector
                        select 'Done, The Instructor with name :'+ ' '+@Selector+' '+'is
deleted'
                    end
                else
                    begin
                        select 'There is no Instructor with this name : ' + @Selector
                    end
            end
        end
```

## 2.2.13. Procedure: dbo.SP\_DELETESTUDENT

**Status:** Active

### Input/Output

Name		Data type	Description
→@	Selector	nvarchar(50)	

### Uses

Name	
⚙️	dbo.SP_DELETESTUDENT
📊	dbo.Student

### Script

```
CREATE proc [dbo].[SP_DELETESTUDENT] (@Selector nvarchar(50))
as
    if (ISNUMERIC(@Selector) =1)
        begin
            declare @id int;
            select @id = convert(int , @selector)
                if exists (select * from Student where Std_ID=@id)
                    begin
                        delete from Student where Std_ID=@id
                        select 'Done, The student with id :'+
'+convert(nvarchar(50),@id)+ ' '+'is deleted'
                    end
                else
                    begin
                        select 'There is no Student with this ID : ' +
convert(nvarchar(50),@id)
                    end
            end
        else
            begin
                if exists (select * from student where (Std_FName+' '+Std_LName) =@Selector)
                    begin
                        delete from Student where (Std_FName+' '+Std_LName) =@Selector
                        select 'Done, The student with name :'+ ' '+@Selector+' '+'is deleted'
                    end
                else
                    begin
                        select 'There is no student with this name : ' + @Selector
                    end
            end
        end
```

## 2.2.14. Procedure: dbo.SP\_DELETETOPIC

**Status:** Active

### Input/Output

Name		Data type	Description
→@	Selector	nvarchar(50)	

### Uses

Name	
⚙️	dbo.SP_DELETETOPIC
📄	dbo.Topic

### Script

```
create proc [dbo].[SP_DELETETOPIC] (@Selector nvarchar(50))
as
if (ISNUMERIC(@Selector) = 1)
begin
declare @id int
select @id = CONVERT(int,@Selector)
delete from Topic where ID=@id
end
else
begin
delete from Topic where Name=@Selector
end
```



## 2.2.15. Procedure: dbo.SP\_DELETETYPE

**Status:** Active

### Input/Output

Name		Data type	Description
→@	Selector	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_DELETETYPE
📊 dbo.Type

### Script

```
create proc [dbo].[SP_DELETETYPE] (@Selector nvarchar(50))
as
if (ISNUMERIC(@Selector) = 1)
begin
declare @id int
select @id = CONVERT(int,@Selector)
delete from Type where T_ID=@id
end
else
begin
delete from Type where T_Desc=@Selector
end
```

## 2.2.16. Procedure: dbo.Sp\_GenerateExam

**Status:** Active

### Input/Output

Name		Data type	Description
➔@	e_ID	int	
➔@	c_ID	int	

### Uses

Name
⚙️ <b>dbo.Sp_GenerateExam</b>
📊 <b>dbo.Course</b>
📊 <b>dbo.Exam</b>
📊 <b>dbo.Exam_Questions</b>
📊 <b>dbo.Question</b>

### Script

```
create proc [dbo].[Sp_GenerateExam] (@e_ID int,@c_ID int)
as
insert into Exam_Questions (Exam_ID,Q_ID,Exam_Q,Q_rank)

select top (2) e.Exam_ID,qu.Q_ID,qu.Q_Desc , Dense_rank()over(partition by qu.Course_ID order by newid())
from dbo.Question as qu
inner join    dbo.Course as co
on co.Course_ID = qu.Course_ID and qu.Course_ID=@c_ID and qu.Type_ID=2
inner join Exam as e
on e.Course_ID = co.Course_ID and e.Exam_ID=@e_ID

union all

select top (2)e.Exam_ID,qu.Q_ID,qu.Q_Desc , Dense_rank()over(partition by qu.Course_ID order by newid())
from dbo.Question as qu
inner join    dbo.Course as co
on co.Course_ID = qu.Course_ID and qu.Course_ID=@c_ID and qu.Type_ID=1
inner join Exam as e
on e.Course_ID = co.Course_ID and e.Exam_ID=@e_ID
```

2.2.17. Procedure: dbo.SP\_INSERTDEPARTMENTCOURSE

Status: Active

Input/Output

Name		Data type	Description
➤@	dep_ID	nvarchar(50)	
➤@	Course_ID	nvarchar(50)	
➤@	duration	nvarchar(50)	

Uses

Name
⚙️ <b>dbo.SP_INSERTDEPARTMENTCOURSE</b>
📄 <b>dbo.Course</b>
📄 <b>dbo.Department</b>
📄 <b>dbo.Dept_Course</b>

Script

```
CREATE proc [dbo].[SP_INSERTDEPARTMENTCOURSE] ( @dep_ID nvarchar(50) , @Course_ID nvarchar(50) , @duration nvarchar(50)=NULL
)
as
    if (ISNUMERIC(@dep_ID)=1)
        begin
            if (ISNUMERIC(@Course_ID)=1)
                begin
                    if exists (select * from Department as d where
                                d.Dept_ID=@dep_ID)
                        begin
                            if exists(select * from Course as c
                                        where c.Course_ID=@Course_ID)
                                begin
                                    insert into
                                        Dept_Course Values (@dep_ID,@Course_ID,@duration)
                                end
                            else
                                begin
                                    select 'Check
                                        the course Number'
                                end
                            end
                        else
                            begin
                                select 'Check the deprtment Number'
                            end
                        end
                    else
                        begin
                            select 'Enter a valid Data'
                        end
                    end
                end
            else
                begin
                    select 'Enter a Valid Data !!'
                end
            end
        end
```

2.2.18. Procedure: dbo.SP\_INSERTINSCOURSES

Status: Active

Input/Output

Name		Data type	Description
→@	ins_Selector	nvarchar(50)	
→@	course_Selector	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_INSERTINSCOURSES
📄	dbo.Course
📄	dbo.Ins_Course
📄	dbo.Instructor

## Script

```
CREATE proc [dbo].[SP_INSERTINSCOURSES] (@ins_Selector nvarchar(50) , @course_Selector nvarchar(50))
as
    if (ISNUMERIC(@ins_Selector)=1)
        begin
            if (ISNUMERIC(@course_Selector)=1)
                begin
                    if exists (select * from Instructor where
                                Ins_ID=@ins_Selector)
                        begin
                            if exists (select * from Course where
                                        Course_ID=@course_Selector)
                                begin
                                    if exists
                                        (select * from Ins_Course as c where c.Course_ID=@course_Selector and c.Ins_ID=@ins_Selector)
                                        begin
                                            end
                                        else
                                            end
                                        begin
                                            end
                                        else
                                            end
                                            begin
                                                select 'Course
id not valid'
                                            end
                                        end
                                    else
                                        begin
                                            select 'Instructor id not valid'
                                        end
                                    end
                                end
                            end
                        end
                    else
                        end
                        begin
                            select 'Check your data !! the both entries must be names
or ids'
                        end
                    end
                else
                    end
                    begin
                        declare @ins_ID int;
                        declare @course_ID int;
                        if exists (select i.Ins_ID from Instructor as i where (Ins_FName+'
'+Ins_LName)=@ins_Selector)
                            begin
                                if exists (select * from Course as c where
                                            c.Course_Name=@course_Selector)
                                    begin
                                        select @ins_ID = i.Ins_ID from
                                        Instructor as i where (Ins_FName+' '+Ins_LName)=@ins_Selector
                                        select @course_ID = c.Course_ID from
                                        Course as c where c.Course_Name=@course_Selector
                                        if exists
                                            (select * from Ins_Course as c where c.Course_ID=@course_ID and c.Ins_ID=@ins_ID)
                                            begin
                                                end
                                            else
                                                end
                                            begin
                                                end
                                            end
                                        else
                                            end
                                            begin
                                                select 'Course name not valid'
                                            end
                                        end
                                    end
                                end
                            end
                        end
                    else
                        end
                        begin
                            select 'Instructor name not valid'
                        end
                    end
                end
            end
        end
    end
```




## 2.2.19. Procedure: dbo.SP\_INSERTINTOEXAM

**Status:** Active

### Input/Output

Name		Data type	Description
→@	Desc	nvarchar(50)	
→@	Date	date	
→@	id	int	

### Uses

Name
 <b>dbo.SP_INSERTINTOEXAM</b>
 <b>dbo.course</b>
 <b>dbo.Exam</b>

### Script

```
create proc [dbo].[SP_INSERTINTOEXAM] (@Desc nvarchar(50), @Date date ,@id int)
as
if exists (select c.Course_ID from course as c where c.Course_ID=@id)
begin
    insert into Exam (Exam_Desc ,Exam_Date ,Course_ID )
    values (@Desc , @Date , @id)
end
else
begin
    select 'There is no Course with this ID '
end
```




## 2.2.20. Procedure: dbo.SP\_INSERTINTOINST

**Status:** Active

### Input/Output

	Name	Data type	Description
➤@	Fname	nvarchar(50)	
➤@	Lname	nvarchar(50)	
➤@	Address	nvarchar(50)	
➤@	BOD	date	
➤@	Email	nvarchar(50)	
➤@	salary	int	
➤@	id	int	

### Uses

Name
 <b>dbo.SP_INSERTINTOINST</b>
 <b>dbo.Department</b>
 <b>dbo.Instructor</b>

### Script

```
create proc [dbo].[SP_INSERTINTOINST] (@Fname nvarchar(50),@Lname nvarchar(50),@Address nvarchar(50) ,@BOD date,@Email
nvarchar(50),@salary int , @id int)
as
if exists (select d.Dept_ID from Department as d where d.Dept_ID=@id)
begin
    insert into dbo.Instructor (Ins_FName , Ins_LName, Ins_Address, Ins_DOB , Ins_Email , Ins_Salary , Dept_ID)
    values (@Fname,@Lname,@Address,@BOD,@Email ,@salary,@id)
end
else
begin
    select 'There is no Department with this ID '
end
```




## 2.2.21. Procedure: dbo.SP\_INSERTINTOSTD

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	Fname	nvarchar(50)	
→@	Lname	nvarchar(50)	
→@	Address	nvarchar(80)	
→@	Email	nvarchar(50)	
→@	BOD	date	
→@	id	int	

### Uses

Name
 <b>dbo.SP_INSERTINTOSTD</b>
 <b>dbo.Department</b>
 <b>dbo.Student</b>

### Script

```
CREATE proc [dbo].[SP_INSERTINTOSTD] (@Fname nvarchar(50),@Lname nvarchar(50),@Address nvarchar(80) ,@Email nvarchar(50),
@BOD date ,@id int)
as
if exists (select d.Dept_ID from Department as d where d.Dept_ID=@id)
begin
insert into Student(Std_FName , Std_LName , Std_Address, Std_Email, Std_DOB , Dept_ID)
values (@Fname,@Lname,@Address,@Email ,@BOD,@id)
end
else
begin
select 'There is no Department with this ID '
```



## 2.2.22. Procedure: dbo.SP\_INSERTQUESTION

**Status:** Active

### Input/Output

Name		Data type	Description
↗@	Q_desc	nvarchar(50)	
↗@	Q_Model	nvarchar(50)	
↗@	Q_type	nvarchar(50)	
↗@	course_ID	nvarchar(50)	
↗@	ch1	nvarchar(50)	
↗@	ch2	nvarchar(50)	
↗@	ch3	nvarchar(50)	
↗@	ch4	nvarchar(50)	

### Uses

Name
⚙️ <b>dbo.SP_INSERTQUESTION</b>
📊 <b>dbo.course</b>
📊 <b>dbo.Question</b>
📊 <b>dbo.Type</b>

### Script

```
CREATE proc [dbo].[SP_INSERTQUESTION]
(
    @Q_desc nvarchar(50),@Q_Model nvarchar(50),@Q_type nvarchar(50),@course_ID nvarchar(50),
    @ch1 nvarchar(50)=null,@ch2 nvarchar(50)=null,@ch3 nvarchar(50)=null,@ch4 nvarchar(50)=null
)
as
    if exists (select * from Type where T_ID=@Q_type)
        begin
            if exists (select * from course where course_ID=@course_ID)
                begin
                    insert into Question
                    (Q_Desc,Q_Model_Ans,Type_ID,Course_ID,Choice_1,Choice_2,Choice_3,Choice_4)
                    values
                    (@Q_desc,@Q_Model,@Q_type,@course_ID,@ch1,@ch2,@ch3,@ch4)
                    select 'Data inserted...'
                end
            else
                begin
                    select 'check course id !!!'
                end
            end
        else
            begin
                select 'check the type !!!'
            end
        end
```

2.2.23. Procedure: dbo.SP\_RP\_COURSETOPIC

Status: Active

Input/Output

Name		Data type	Description
→@	co_ID	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_RP_COURSETOPIC
📊	dbo.Course
📊	dbo.Topic

Script

```
create proc [dbo].[SP_RP_COURSETOPIC] (@co_ID nvarchar (50))
as
    if (ISNUMERIC (@co_ID)=1)
        begin
            if exists (select * from Course as c where c.Course_ID=@co_ID)
                begin
                    select c.Course_ID , c.Course_Name , t.Name from Course as
c
                    inner join Topic as t on c.Topic_ID = t.ID
                    where c.Course_ID=@co_ID
                end
            else
                begin
                    select 'There is no course with this ID : '+@co_ID
                end
            end
        else
            begin
                select 'Check the data !!!'
            end
        end
```

## 2.2.24. Procedure: dbo.SP\_RP\_INSTRUCTORCOURSESWITHSTUDENT

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	ins_ID	nvarchar(50)	

### Uses

Name
⚙️ <b>dbo.SP_RP_INSTRUCTORCOURSESWITHSTUDENT</b>
📊 <b>dbo.Course</b>
📊 <b>dbo.Department</b>
📊 <b>dbo.Ins_Course</b>
📊 <b>dbo.Instructor</b>
📊 <b>dbo.Student</b>

### Script

```
create proc [dbo].[SP_RP_INSTRUCTORCOURSESWITHSTUDENT] (@ins_ID nvarchar(50))
as
    if (ISNUMERIC(@ins_ID)=1)
        begin
            if exists (select * from Instructor as i where i.Ins_ID=@ins_ID)
                begin
                    select COUNT(s.Std_ID) as
                    NO_OF_STUDENTS,i.Ins_ID,i.Ins_FName,ic.Course_ID,c.Course_Name
                    from Student as s
                    inner join Department as d on d.Dept_ID=s.Dept_id
                    inner join Instructor as i on i.Dept_ID=d.Dept_ID
                    inner join Ins_Course as ic on ic.Ins_ID=i.Ins_ID and
                    inner join Course as c on c.Course_ID=ic.Course_ID
                    group by s.Dept_id , i.Ins_ID , ic.Course_ID , i.Ins_FName
                end
            else
                begin
                    select 'There is no instructor with this id : '+@ins_ID
                end
        end
    else
        begin
            select 'Check your data !!'
        end
    end
```

2.2.25. Procedure: dbo.SP\_RP\_SELECTEXAMQUESTIONWITHCHOICES

Status: Active

Input/Output

Name		Data type	Description
→@	examNumber	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_RP_SELECTEXAMQUESTIONWITHCHOICES
📄	dbo.Exam
📄	dbo.Exam_Questions
📄	dbo.Question

Script

```
create proc [dbo].[SP_RP_SELECTEXAMQUESTIONWITHCHOICES] (@examNumber nvarchar(50))
as
    if (ISNUMERIC (@examNumber)=1)
        begin
            if exists (select * from Exam as e where e.Exam_ID=@examNumber)
                begin
                    if exists (select * from Exam_Questions as eq where
eq.Exam_ID=@examNumber)
                        begin
                            select eq.Exam_ID , q.Q_ID ,
q.Q_Desc,q.Choice_1,q.Choice_2,q.Choice_3,q.Choice_4 from Exam_Questions as eq
                            inner join Question as q on
eq.Q_ID=q.Q_ID
                            where eq.Exam_ID=@examNumber
                        end
                    else
                        begin
                            select 'There is no Questions for
this exam : '+@examNumber
                        end
                end
            else
                begin
                    select 'There is no exam with this id :'+@examNumber
                end
        end
    else
        begin
            select 'Check your data the input must an exam ID !!!'
        end
    end
```

2.2.26. Procedure: dbo.SP\_RP\_SELECTSTDANSWERS

Status: Active

Input/Output

Name		Data type	Description
➔@	STD_ID	nvarchar(50)	
➔@	EXAM_ID	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_RP_SELECTSTDANSWERS
📊	dbo.Exam
📊	dbo.Question
📊	dbo.Std_Answers
📊	dbo.Student

Script

```
create proc [dbo].[SP_RP_SELECTSTDANSWERS] (@STD_ID nvarchar(50),@EXAM_ID nvarchar(50))
as
    if (ISNUMERIC(@STD_ID)=1)
        begin
            if (ISNUMERIC(@EXAM_ID)=1)
                begin
                    if exists (select * from Student as s where
                                s.Std_ID=@STD_ID)
                        begin
                            if exists (select * from Exam as ex
                                        where ex.Exam_ID=@EXAM_ID)
                                begin
                                    if exists
                                        (select * from Std_Answers as s where s.Exam_ID=@EXAM_ID and s.Std_ID=@STD_ID)
                                        begin
                                            select *
                                        end
                                    else
                                        end
                                end
                            else
                                begin
                                    select 'There is no exam with this id : '+@EXAM_ID
                                end
                            else
                                begin
                                    select 'There is no student with this id : '+@STD_ID
                                end
                            end
                        else
                            begin
                                select 'Check the data !!!'
                            end
                    end
                end
            else
                begin
                    select 'Check the data !!!'
                end
            end
        end
```

## 2.2.27. Procedure: dbo.SP\_RP\_STDINF

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	dep_ID	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_RP_STDINF
📊 dbo.Department
📊 dbo.Student

### Script

```
create proc [dbo].[SP_RP_STDINF] (@dep_ID nvarchar(50))
as
    if (ISNUMERIC(@dep_ID)=1)
        begin
            if exists (select * from Department where Dept_ID=@dep_ID)
                begin
                    select * from Student where Dept_id=@dep_ID
                end
            else
                begin
                    select 'There is no department with this id : '+@dep_ID
                end
        end
    else
        begin
            select 'Check the data !!!'
        end
    end
```





## 2.2.28. Procedure: dbo.SP\_SELECTALLCOURSESINDEPARTMENT

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	dep_ID	nvarchar(50)	

### Uses

Name
 <b>dbo.SP_SELECTALLCOURSESINDEPARTMENT</b>
 <b>dbo.Course</b>
 <b>dbo.Department</b>
 <b>dbo.Dept_Course</b>

### Script

```
CREATE proc [dbo].[SP_SELECTALLCOURSESINDEPARTMENT] (@dep_ID nvarchar(50))
as
    if (ISNUMERIC(@dep_ID)=1)
        begin
            if exists (select * from Dept_Course where Dept_ID=@dep_ID)
                begin
                    select
                        dc.Dept_ID,d.Dept_Name,dc.Course_ID,c.Course_Name,dc.Course_Duration from Dept_Course as dc
                        inner join Course as c on dc.Course_ID = c.Course_ID
                        inner join Department as d on dc.Dept_ID = d.Dept_ID
                        where dc.Dept_ID=@dep_ID
                end
            else
                begin
                    select 'No Courses with this Dept_ID'
                end
        end
    else
        begin
            select 'Check Your Data !!'
        end
    end
```

2.2.29. Procedure: dbo.SP\_SELECTEXAMQUESTION

Status: Active

Input/Output

Name		Data type	Description
→@	examNumber	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_SELECTEXAMQUESTION
📄	dbo.Exam
📄	dbo.Exam_Questions
📄	dbo.Question

Script

```
CREATE proc [dbo].[SP_SELECTEXAMQUESTION] (@examNumber nvarchar(50))
as
    if (ISNUMERIC (@examNumber)=1)
        begin
            if exists (select * from Exam as e where e.Exam_ID=@examNumber)
                begin
                    if exists (select * from Exam_Questions as eq where
                        eq.Exam_ID=@examNumber)
                        begin
                            select eq.Exam_ID , q.Q_ID , q.Q_Desc
                            inner join Question as q on
                                where eq.Exam_ID=@examNumber
                        end
                    else
                        begin
                            select 'There is no Questions for
                                '
                        end
                end
            else
                begin
                    select 'There is no exam with this id :'+@examNumber
                end
        end
    else
        begin
            select 'Check your data the input must an exam ID !!!'
        end
end
```



## 2.2.30. Procedure: dbo.SP\_SELECTFROMCOURSE

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	SEARCH	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_SELECTFROMCOURSE
📊 dbo.Course

### Script

```
CREATE proc [dbo].[SP_SELECTFROMCOURSE] (@SEARCH nvarchar(50))
as
if (ISNUMERIC(@SEARCH)=1)
begin
declare @id int;
select @id = CONVERT(int,@SEARCH)
end
select * from Course as c
where c.Course_Name=@SEARCH or c.Course_ID=@id
```

2.2.31. Procedure: dbo.SP\_SELECTFROMDEP

Status: Active

Input/Output

Name		Data type	Description
→@	SEARCH	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_SELECTFROMDEP
📄	dbo.Department

Script

```
create proc [dbo].[SP_SELECTFROMDEP] (@SEARCH nvarchar(50))
as
if (ISNUMERIC(@SEARCH)=1)
begin
declare @id int;
select @id = CONVERT(int,@SEARCH)
end
select * from Department as D
where D.Dept_Name=@SEARCH or D.Dept_ID=@id
```

2.2.32. Procedure: dbo.SP\_SELECTFROMEXAM

Status: Active

Input/Output

Name		Data type	Description
→@	SEARCH	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_SELECTFROMEXAM
📄	dbo.Exam

Script

```
CREATE proc [dbo].[SP_SELECTFROMEXAM] (@SEARCH nvarchar(50))
as
if (ISNUMERIC(@SEARCH)=1)
begin
declare @id int;
select @id = CONVERT(int,@SEARCH)
end
select * from Exam as E
where E.Exam_Desc=@SEARCH
or E.Exam_Date=@SEARCH or E.Exam_ID=@id
```

## 2.2.33. Procedure: dbo.SP\_SELECTFROMINST

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	SEARCH	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_SELECTFROMINST
📊 dbo.Instructor

### Script

```
create proc [dbo].[SP_SELECTFROMINST] (@SEARCH nvarchar(50))
as
if (ISNUMERIC(@SEARCH)=1)
begin
declare @id int , @date date ;
select @id = CONVERT(int,@SEARCH)
select @date = CONVERT(date ,@SEARCH )
end
select * from Instructor as I
where I.Ins_FName=@SEARCH or I.Ins_LName=@SEARCH or
i.Ins_Address=@SEARCH or I.Ins_Salary= @id or
i.Ins_DOB=@date or i.Ins_ID=@id
```

## 2.2.34. Procedure: dbo.SP\_SELECTFROMSTD

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	SEARCH	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_SELECTFROMSTD
📊 dbo.Student

### Script

```
create proc [dbo].[SP_SELECTFROMSTD] (@SEARCH nvarchar(50))
as
if (ISNUMERIC(@SEARCH)=1)
begin
declare @id int , @date date ;
select @id = CONVERT(int,@SEARCH)
select @date = CONVERT(date ,@SEARCH )
end
select * from Student as S
where s.Std_FName=@SEARCH or S.std_LName=@SEARCH or
S.Std_Address=@SEARCH or s.Std_Email= @SEARCH or
S.Std_DOB=@date or S.Std_ID=@id
```





## 2.2.35. Procedure: dbo.SP\_SELECTINSCOURSE

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	ins_selector	nvarchar(50)	

### Uses

Name
 <b>dbo.SP_SELECTINSCOURSE</b>
 <b>dbo.Course</b>
 <b>dbo.Ins_Course</b>
 <b>dbo.Instructor</b>

### Script

```
CREATE proc [dbo].[SP_SELECTINSCOURSE] (@ins_selector nvarchar(50))
as
    if (ISNUMERIC(@ins_selector)=1)
        begin
            if exists (select * from Instructor as i where i.Ins_ID=@ins_selector)
                if exists (select * from Ins_Course as ic where
                    ic.Ins_ID=@ins_selector)
                    begin
                        select ic.Ins_ID, (i.Ins_FName+'
'+i.Ins_LName) , ic.Course_ID, c.Course_Name
                        from Ins_Course as ic
                        inner join Course as c on
                        inner join Instructor as i on
                        where ic.Ins_ID=@ins_selector
                    end
                else
                    begin
                        select 'This instructor not assigned
to any courses...'
                    end
            else
                begin
                    select 'There is no instructor with this ID :
'+@ins_selector
                end
        else
            begin
                if exists (select * from Instructor as i where (i.Ins_FName+'
'+i.Ins_LName)=@ins_selector)
                    begin
                        declare @ins_ID nvarchar(50);
                        select @ins_ID=i.Ins_ID from Instructor as i where
                        (i.Ins_FName+' '+i.Ins_LName)=@ins_selector
                        select ic.Ins_ID, (i.Ins_FName+' '+i.Ins_LName) ,
                        ic.Course_ID, c.Course_Name
                        from Ins_Course as ic
                        inner join Course as c on
                        inner join Instructor as i on
                        where ic.Ins_ID=@ins_ID
                    end
                else
                    begin
                        select 'There is no instructor with this name :
'+@ins_selector
                    end
            end
        end
```

## 2.2.36. Procedure: dbo.SP\_SELECTQUESTION

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	selector	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_SELECTQUESTION
📊 dbo.Course
📊 dbo.Question

### Script

```
create proc [dbo].[SP_SELECTQUESTION] (@selector nvarchar(50))
as
    if (ISNUMERIC(@selector)=1)
        begin
            if exists (select * from Course as c where c.Course_ID=@selector)
                begin
                    select * from Question as Q where Q.Course_ID=@selector
                end
            else
                begin
                    select 'There is no course with this ID'
                end
        end
    else
        begin
            if exists (select * from Question where Q_Desc=@selector)
                begin
                    select * from Question where Q_Desc=@selector
                end
            else
                begin
                    select 'There is no Question matched'
                end
        end
    end
```

2.2.37. Procedure: dbo.SP\_SELECTSTDANSWERS

Status: Active

Input/Output

Name		Data type	Description
➔@	STD_ID	nvarchar(50)	
➔@	EXAM_ID	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_SELECTSTDANSWERS
📊	dbo.Exam
📊	dbo.Question
📊	dbo.Std_Answers
📊	dbo.Student

Script

```
create proc [dbo].[SP_SELECTSTDANSWERS] (@STD_ID nvarchar (50),@EXAM_ID nvarchar(50))
as
    if (ISNUMERIC (@STD_ID)=1)
        begin
            if (ISNUMERIC (@EXAM_ID)=1)
                begin
                    if exists (select * from Student as s where
                                s.Std_ID=@STD_ID)
                        begin
                            if exists (select * from Exam as ex
                                        where ex.Exam_ID=@EXAM_ID)
                                begin
                                    if exists
                                        (select * from Std_Answers as s where s.Exam_ID=@EXAM_ID and s.Std_ID=@STD_ID)
                                        begin
                                            select *
                                        end
                                    else
                                        end
                                end
                            else
                                begin
                                    select 'There is no exam with this id : '+@EXAM_ID
                                end
                            else
                                begin
                                    select 'There is no student with this id : '+@STD_ID
                                end
                            end
                        else
                            begin
                                select 'Check the data !!!'
                            end
                    end
                end
            else
                begin
                    select 'Check the data !!!'
                end
        end
    else
        begin
            select 'Check the data !!!'
        end
end
```



2.2.38. Procedure: dbo.SP\_SELECTSTUDENTRESULTS

Status: Active

Input/Output

Name		Data type	Description
→@	std_ID	nvarchar(50)	
→@	course_name	nvarchar(50)	

Uses

Name	
⚙️	dbo.SP_SELECTSTUDENTRESULTS
📊	dbo.Course
📊	dbo.Exam
📊	dbo.Std_Exam_Result
📊	dbo.Student

## Script

```
CREATE proc [dbo].[SP_SELECTSTUDENTRESULTS] (@std_ID nvarchar(50) , @course_name nvarchar(50)=null)
as
    if (ISNUMERIC(@std_ID)=1)
        begin
            if (ISNUMERIC(@course_name)=0)
                begin
                    if (@course_name is not null)
                        begin
                            if exists (select * from Student
                                where Std_ID=@std_ID)
                                begin
                                    if exists
                                        (select * from Course as c where c.Course_Name=@course_name)
                                        begin
                                            end
                                        else
                                            end
                                        end
                                    end
                                else
                                    end
                            end
                        end
                    else
                        begin
                            select 'There
                                is no student with this id : '+@std_ID
                                end
                        else
                            begin
                                if (@course_name is null)
                                    begin
                                        select 'ana
                                            Std_Exam_Result as er where Std_ID=@std_ID
                                            null'
                                        end
                                    else
                                        begin
                                            select 'Check
                                                the data 11 !!!'
                                            end
                                        end
                                    end
                                end
                            end
                        end
                    end
                end
            else
                begin
                    end
                    select 'Check the data 22 !!!'
                end
            end
        else
            begin
                end
                select 'Check the data 33 !!!'
            end
        end
```

## 2.2.39. Procedure: dbo.SP\_UBDATEQUESTIONTYPE\_OR\_QUESTION

**Status:** Active

### Input/Output

	Name	Data type	Description
➤@	Question	nvarchar(50)	
➤@	newdata	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_UBDATEQUESTIONTYPE_OR_QUESTION
📊 dbo.Question
📊 dbo.Type

### Script

```
CREATE proc [dbo].[SP_UBDATEQUESTIONTYPE_OR_QUESTION] (@Question nvarchar(50) , @newdata nvarchar(50))
as
    if (ISNUMERIC(@newdata)=1)
        begin
            if exists (select * from Question where Q_Desc = @Question)
                begin
                    if exists (select * from dbo.Type where T_ID = @newdata)
                        begin
                            update Question set Type_ID=@newdata
                            select 'Type Updated'
                        end
                    else
                        begin
                            select 'Check the type, There is no
                                Type with this id : '+@newdata
                        end
                    end
                else
                    begin
                        select 'Can not update type, There is no Question with this
                            description : '+@Question
                    end
                end
            else
                begin
                    if exists (select * from Question where Q_Desc = @Question)
                        begin
                            update Question set Q_Desc=@newdata where Q_Desc=@Question
                            select 'Question Updated'
                        end
                    else
                        begin
                            select 'Can not update Question, There is no Question with
                                this description : '+@Question
                        end
                    end
                end
        end
```



## 2.2.40. Procedure: dbo.SP\_UPDATECOURSE

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	Old_Data	nvarchar(50)	
→@	New_Data	nvarchar(50)	

### Uses

Name
 dbo.SP_UPDATECOURSE
 dbo.Course

### Script

```
create proc [dbo].[SP_UPDATECOURSE] (@Old_Data nvarchar(50) , @New_Data nvarchar(50))
as
if (ISNUMERIC(@Old_Data)=1)
begin
declare @id int;
select @id = CONVERT(int,@Old_Data)
update Course set Course_Name=@New_Data
where Course.Course_ID=@id
end
else
begin
update Course set Course_Name=@New_Data
where Course.Course_Name=@Old_Data
end
```



## 2.2.41. Procedure: dbo.SP\_UPDATEDEP

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	id	int	
→@	Dept_name	nvarchar(50)	
→@	Dept_desc	nvarchar(50)	

### Uses

Name
 <b>dbo.SP_UPDATEDEP</b>
 <b>dbo.Department</b>

### Script

```
CREATE proc [dbo].[SP_UPDATEDEP] (@id int , @Dept_name nvarchar (50),@Dept_desc nvarchar (50))
as
if exists (select d.Dept_ID from Department as d where d.Dept_ID=@id)
begin
    update Department set Dept_Name=@Dept_name , Dept_Desc=@Dept_desc where Dept_ID=@id
end
else
begin
    select 'There is no Department with this ID to update'
end
```

## 2.2.42. Procedure: dbo.SP\_UPDATEDEPMANAGER

**Status:** Active

### Input/Output

Name		Data type	Description
➔@	id	int	
➔@	MANAGER_Dept_id	int	
➔@	HIRE_DATE	date	

### Uses

Name
⚙️ <b>dbo.SP_UPDATEDEPMANAGER</b>
📊 <b>dbo.Department</b>
📊 <b>dbo.Instructor</b>

### Script

```
CREATE proc [dbo].[SP_UPDATEDEPMANAGER] (@id int , @MANAGER_Dept_id int , @HIRE_DATE date)
as
if exists (select d.Dept_ID from Department as d where d.Dept_ID=@id)
begin
    if exists(select ins.Dept_ID from Instructor as ins where ins.Ins_ID=@MANAGER_Dept_id)
    begin
        update Department set Manager_ID=@MANAGER_Dept_id , Mng_hire_Date=@HIRE_DATE where Dept_ID=@id
        select 'Manager Involved'
    end
else
    begin
        select 'There is no instructor with this id'
    end
end
else
begin
    select 'There is no Department with this ID to update'
end
end
```



## 2.2.43. Procedure: dbo.SP\_UPDATEDEPTCOURSESDURATION

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	dept_ID	nvarchar(50)	
→@	course_ID	nvarchar(50)	
→@	duration	nvarchar(50)	

### Uses

Name
 <b>dbo.SP_UPDATEDEPTCOURSESDURATION</b>
 <b>dbo.Dept_Course</b>

### Script

```
CREATE proc [dbo].[SP_UPDATEDEPTCOURSESDURATION] (@dept_ID nvarchar(50) , @course_ID nvarchar(50),@duration nvarchar(50))
as
    if (ISNUMERIC(@dept_ID)=1)
        begin
            if (ISNUMERIC(@course_ID)=1)
                begin
                    if exists (select * from Dept_Course as dc where
                        dc.Dept_ID=@dept_ID and dc.Course_ID=@course_ID)
                        begin
                            update Dept_Course set
                                Course_Duration=@duration where Dept_ID=@dept_ID and Course_ID=@course_ID
                            select 'Done, data updated'
                        end
                    else
                        begin
                            select 'There is no data with these
                                inputs'
                        end
                    end
                else
                    begin
                        select 'check the course ID'
                    end
                end
            else
                begin
                    select 'Check the department ID'
                end
            end
```

2.2.44. Procedure: dbo.SP\_UPDATEEXAMQUESTION

Status: Active

Input/Output

Name		Data type	Description
➤@	exam_ID	nvarchar(50)	
➤@	old_Q	nvarchar(50)	
➤@	new_Q	nvarchar(50)	

Uses

Name	
⚙	dbo.SP_UPDATEEXAMQUESTION
📊	dbo.Exam_Questions
📊	dbo.Question

Script

```
CREATE proc [dbo].[SP_UPDATEEXAMQUESTION] (@exam_ID nvarchar(50) , @old_Q nvarchar(50) , @new_Q nvarchar(50))
as
    if (ISNUMERIC(@new_Q)=0)
        begin
            if exists(select * from Question as q where q.Q_Desc=@new_Q)
                begin
                    declare @new_Q_ID nvarchar(50);
                    select @new_Q_ID = q.Q_ID from Question AS q where
                        q.Q_Desc=@new_Q
                    if (ISNUMERIC(@exam_ID)=1)
                        begin
                            if (ISNUMERIC(@old_Q)=0)
                                begin
                                    if exists
                                        (select * from Exam_Questions as eq where eq.Exam_ID=@exam_ID and eq.Exam_Q=@old_Q)
                                        begin
                                            end
                                        else
                                            end
                                        begin
                                            end
                                            select 'Check
the data !!!'
                                        end
                                    end
                                else
                                    begin
                                        select 'Check the data !!!'
                                    end
                                end
                            end
                        else
                            begin
                                select 'There is no question with this description'
                            end
                        end
                    end
                else
                    begin
                        select 'Check the data !!!'
                    end
                end
            end
        end
```






## 2.2.45. Procedure: dbo.SP\_UPDATEINSCOURSE

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	ins_ID	nvarchar(50)	
→@	Course_ID	nvarchar(50)	
→@	NEW_INS_ID	nvarchar(50)	

### Uses

Name
 <b>dbo.SP_UPDATEINSCOURSE</b>
 <b>dbo.Ins_Course</b>
 <b>dbo.Instructor</b>

### Script

```
create proc [dbo].[SP_UPDATEINSCOURSE] (@ins_ID nvarchar(50),@Course_ID nvarchar(50),@NEW_INS_ID nvarchar(50))
as
    if (ISNUMERIC(@NEW_INS_ID)=1)
        begin
            if exists (select * from Instructor as i where i.Ins_ID=@NEW_INS_ID)
                begin
                    if (ISNUMERIC(@ins_ID)=1)
                        begin
                            if (ISNUMERIC(@Course_ID)=1)
                                begin
                                    if exists
                                        (select * from Ins_Course as ic where ic.Course_ID=@Course_ID and ic.Ins_ID=@ins_ID)
                                        begin
                                            end
                                        else
                                            end
                                        begin
                                            end
                                        else
                                            begin
                                                select 'Check
the data !!!'
                                                end
                                            end
                                        else
                                            begin
                                                select 'Check the data !!!'
                                                end
                                            end
                                        end
                                    end
                                end
                            end
                        end
                    end
                end
            else
                begin
                    end
                end
            else
                begin
                    select 'This instructor id not involved !!!'
                    end
                end
            else
                begin
                    select 'Check the data !!!'
                    end
                end
            end
```



## 2.2.46. Procedure: dbo.SP\_UPDATEINSTRUCTOR

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	id	int	
→@	DATA	nvarchar(50)	
→@	Email	nvarchar(50)	
→@	Salary	int	

### Uses

Name
 <b>dbo.SP_UPDATEINSTRUCTOR</b>
 <b>dbo.Instructor</b>

### Script

```
CREATE proc [dbo].[SP_UPDATEINSTRUCTOR] ( @id int ,@DATA nvarchar (50) = null ,@Email nvarchar(50)=null, @Salary int = null
)
as
if exists (select i.Ins_ID from Instructor as i where i.Ins_ID=@id)
begin
    update Instructor set Ins_Address=@Data,Ins_Email=@Email,Ins_Salary=@Salary where Ins_ID=@id
    select 'Manager Involved'
end
else
begin
    select 'There is no instructor with this id'
end
end
```

## 2.2.47. Procedure: dbo.SP\_UPDATEINTOTOPIC

**Status:** Active

### Input/Output

Name		Data type	Description
→@	id	int	
→@	Name	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_UPDATEINTOTOPIC
📊 dbo.topic

### Script

```
create proc [dbo].[SP_UPDATEINTOTOPIC] (@id int , @Name nvarchar(50))
as
if exists (select ID from topic where ID= @id)
begin
update Topic set Name=@Name where ID= @id
end
else
begin
select 'invalid id !'
end
```

## 2.2.48. Procedure: dbo.SP\_UPDATESTDADDRESS

**Status:** Active

### Input/Output

Name		Data type	Description
→@	id	int	
→@	Address	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_UPDATESTDADDRESS
📊 dbo.Student

### Script

```
Create proc [dbo].[SP_UPDATESTDADDRESS] (@id int , @Address nvarchar(50))
as
if exists (select s.Std_ID from Student as s where s.Std_ID=@id)
begin
    update Student set Std_Address=@Address where Std_ID=@id
    select 'Colum Updated '
    end
else
    begin
        select 'There is no Student with this id !'
    end
end
```

## 2.2.49. Procedure: dbo.SP\_UPDATESTDEMAIL

**Status:** Active

### Input/Output

Name		Data type	Description
→@	id	int	
→@	Email	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_UPDATESTDEMAIL
📊 dbo.Student

### Script

```
create proc [dbo].[SP_UPDATESTDEMAIL] (@id int , @Email nvarchar(50))
as
if exists (select s.Std_ID from Student as s where s.Std_ID=@id)
begin
    update Student set Std_Email=@Email where Std_ID=@id
    select 'Colum Updated '
    end
else
    begin
        select 'There is no student with this id !'
    end
end
```



## 2.2.50. Procedure: dbo.SP\_UPDATETOPIC

**Status:** Active

### Input/Output

	Name	Data type	Description
→@	Old_Data	nvarchar(50)	
→@	New_Data	nvarchar(50)	

### Uses

Name
 dbo.SP_UPDATETOPIC
 dbo.Topic

### Script

```
create proc [dbo].[SP_UPDATETOPIC] (@Old_Data nvarchar(50) , @New_Data nvarchar(50))
as
if (ISNUMERIC(@Old_Data)=1)
begin
declare @id int;
select @id = CONVERT(int,@Old_Data)
update Topic set Name=@New_Data
where Topic.ID=@id
end
else
begin
update Topic set Name=@New_Data
where topic.Name=@Old_Data
end
```

## 2.2.51. Procedure: dbo.SP\_UPDATETYPE

**Status:** Active

### Input/Output

	Name	Data type	Description
➔@	Old_Data	nvarchar(50)	
➔@	New_Data	nvarchar(50)	

### Uses

Name
⚙️ dbo.SP_UPDATETYPE
📊 dbo.Type

### Script

```
create proc [dbo].[SP_UPDATETYPE] (@Old_Data nvarchar(50) , @New_Data nvarchar(50))
as
if (ISNUMERIC(@Old_Data)=1)
begin
declare @id int;
select @id = CONVERT(int,@Old_Data)
update Type set T_Desc=@New_Data
where T_ID=@id
end
else
begin
update Type set T_Desc=@New_Data
where T_Desc=@Old_Data
end
```

## 2.2.52. Procedure: dbo.SP\_UPDATEEXAMDATE

**Status:** Active

### Input/Output

Name		Data type	Description
→@	id	int	
→@	Date	date	

### Uses

Name
⚙️ dbo.SP_UPDATEEXAMDATE
📊 dbo.Exam

### Script

```
Create proc [dbo].[SP_UPDATEEXAMDATE] (@id int , @Date date)
as
if exists (select E.Exam_ID from Exam as E where E.Exam_ID=@id)
begin
    update Exam set Exam_Date=@Date where Exam_ID=@id
    select 'Colum Updated '
    end
else
    begin
        select 'There is no Exam with this id !'
    end
```