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| --- | --- |
| Graphical user interface  Description automatically generated with medium confidence  HAzem & Alaa & hossam | Abstract  Examination System to be controlled by more than one user (student, teacher, principal...)  Course  SQL\_Project |

1:- instructor determines the date of exam.

create View vExam as select \* from Exam

create proc setDateOfExam @start datetime , @end datetime, @nameExam nvarchar(max)

as

begin

declare @idexam int =(select Exam\_id from Exam where Exam\_name= @nameExam)

update vExam

set Start\_time=@start ,end\_time=@end

where Exam\_id=@idexam

end

exec setDateOfExam '1.1.2233 00:00:00','1.1.1800 00:00:00', 'java';

select \* from vExam where Exam\_name='java'

Graphical user interface, text, application

Description automatically generated

2:-instructor determine student to enter the exam and student should be in table of student and table of exam\_student.

create view vStudent\_exam as select \* from Student\_Exam;

alter proc determineStudent @startOfStudent int ,@endOfStudent int ,@exm\_name nvarchar(max)

as

begin

declare @exam\_id int =( select Exam\_id from Exam where Exam\_name=@exm\_name)

declare @conut int = @startOfStudent

while @conut<=@endOfStudent

begin

insert into vStudent\_exam(Student\_id,Exam\_id,degree)

values (@conut,@exam\_id,0)

set @conut=@conut+1

end

end

exec determineStudent 1,5,'html'

select \* from vStudent\_exam

Graphical user interface, application

Description automatically generated Graphical user interface, table

Description automatically generated

3:- allow instructor to choice question from question text and put it in exam.

alter proc addquestion\_from\_textquestion\_proc @qusexam\_id int ,@patren nvarchar

as

begin

declare @x nvarchar(max)=( select Question\_descrip from Question\_TorF where Question\_descrip like '['+@patren +']%')

update Question\_Exam

set Question\_descrip=@x

where Question\_id=@qusexam\_id

end

exec addquestion\_from\_textquestion\_proc 4,'how'

select \* from Question\_Exam

Table

Description automatically generated

4:- scenario to exam from student number 1 with check his answer.

-- first view for question.

create view exam1 as select Question\_descrip from Question\_Exam

where Exam\_id=1 ;

-- proc fro show question.

create proc show\_question

as

begin

select \* from exam1

end

-- show question

exec show\_question;

Graphical user interface, text, application

Description automatically generated

--proc to allow student to enter his answer.

alter proc student\_ans\_true\_or\_false @answer nvarchar(max) ,@qiestion\_id int

as

begin

insert into Student\_Answer values(@qiestion\_id,1,@answer)

declare @true\_answer nvarchar(max)=(select Answer from Question\_Exam where Question\_id=@qiestion\_id)

declare @student\_answer nvarchar(max)=(select Student\_Answer from Student\_Answer where Question\_id=@qiestion\_id and Student\_id=1)

declare @grade int =(select degree from Student\_Exam where Student\_id=1 and Exam\_id=1)

declare @adddegree int

if(@true\_answer=@student\_answer)

begin

set @adddegree=(select Degree from Question\_Exam where Question\_id=@qiestion\_id)

update Student\_Exam

set degree=(@grade+@adddegree)

where Student\_id=1 and Exam\_id=1

end

else

begin

print 'from esle'

end

end

Graphical user interface, text, application

Description automatically generated

--student answer:

exec student\_ans\_true\_or\_false "true",1

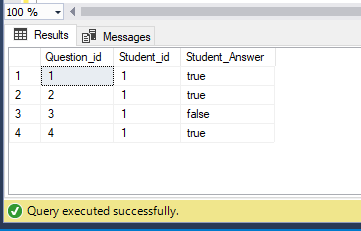
exec student\_ans\_true\_or\_false "true",2

exec student\_ans\_true\_or\_false "false",3

exec student\_ans\_true\_or\_false "true",4

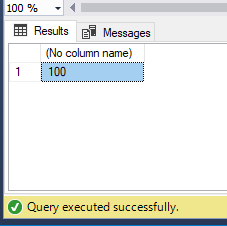
--Show student answer:

select \* from Student\_Answer;



--show student grade

select dbo.show\_grade('ahmed');



:-this code about determine time of exam to allow student to show question.

alter proc show\_question\_withTime

as

begin

declare @starttime datetime=(select Start\_time from Exam where Exam\_id=1)

declare @endtime datetime=(select end\_time from Exam where Exam\_id=1)

if(@starttime >=GETDATE() AND @endtime <=getdate() )

begin

SELECT Question\_descrip FROM exam1

end

else

begin

print 'you are not in day of exam'

end

end

exec show\_question\_withTime;

Graphical user interface, text, application, email

Description automatically generated

allow maneger to add new student

alter procedure manager\_add\_new\_user

@Student\_id int,

@F\_name nvarchar(max),

@L\_name nvarchar(max),

@E\_mail nvarchar(max),

@Std\_adress nvarchar(max),

@Intake nvarchar(max),

@Track nvarchar(max),

@Phone nvarchar(max),

@pass\_word int,

@branch nvarchar(max)

as

begin

insert into Student values(@Student\_id ,@F\_name,@L\_name,

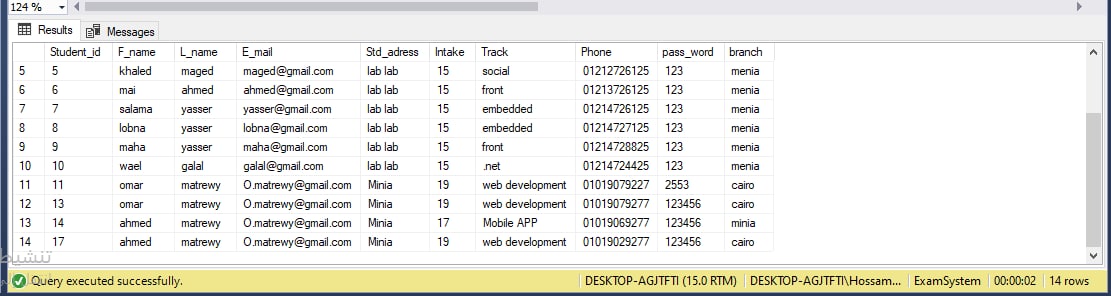
@E\_mail,@Std\_adress,@Intake,@Track,@Phone,@pass\_word,@branch)

End

exec manager\_add\_new\_user 17,'ahmed','matrewy','O.matrewy@gmail.com','Minia',17,'Mobile APP','01019029277' ,123456,'minia'

select \*

from Student



manager update student

alter procedure manager\_update\_user\_data

@Student\_id int ,@Intake nvarchar(20), @Track nvarchar(20) , @branch nvarchar(20)

as

begin

update Student

set Intake=@Intake, Track=@Track ,branch=@branch

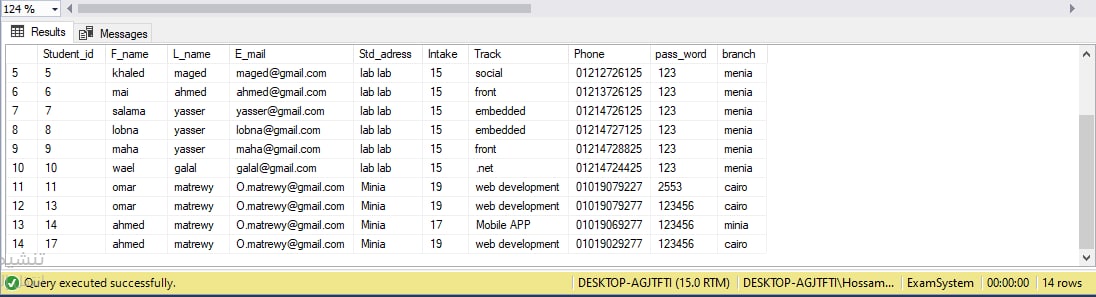
where Student\_id=@Student\_id

end

exec manager\_update\_user\_data 17,'19', 'web development' ,'cairo'

select \*

from [dbo].[Student]



trigger to prevent insert and allow only to manager for question choice

create TRIGGER trg\_add\_mcq

ON Question\_Choice

AFTER INSERT

AS

BEGIN

declare @i int

SELECT @i = inserted.Question\_id

FROM inserted;

DELETE FROM Question\_Choice WHERE Question\_id=@i

AND SUSER\_SNAME() != 'DESKTOP-AGJTFTI\Hossam Matrewy'

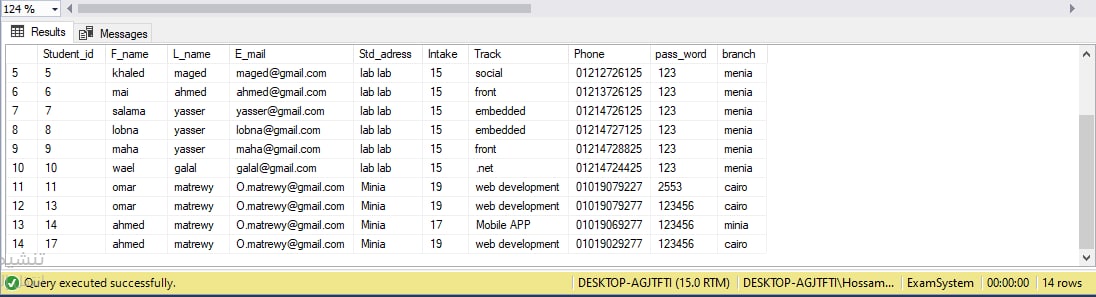
END

DROP TRIGGER trg\_add\_mcq

INSERT INTO Question\_Choice VALUES(18, 'Question\_descripp', 'Option1', 'Option2', 'Option3', 'Option4', 'Answer', 1)

select \*

from Question\_Choice



trigger to prevent delete and allow only to manager

alter TRIGGER trg\_delete\_mcq

ON Question\_Choice

instead of DELETE

AS

BEGIN

declare @i int

SELECT @i = deleted.Question\_id

FROM deleted;

DELETE FROM Question\_Choice WHERE Question\_id=@i

AND SUSER\_SNAME() = 'DESKTOP-AGJTFTI\Hossam Matrewy'

END

DROP TRIGGER trg\_add\_mcq

DELETE FROM Question\_Choice where Question\_id=18

select \*

from Question\_Choice

