#### student table

P/F	Field Name	Data Type	Data format	Field Size	Description	Example
Р	Student_ID	Integer	NNNN	6	Unique number id for all students	19
	Student_name	Varchar		50	name of the student	Fatima
					each student should have a	
F	Dep_id	Integer	NNNN	6	department	400

## department table

	P/F	Field Name	Data Type	Data format	Field Size	Description	Example
Ī	Р	Department_ID	Integer	NNNN	6	id for all department	400
ſ		Department_name	Varchar		50	name of the department	Al

#### **Exam Table**

P/F	Field Name	Data Type	Data format	Field Size	Description	Example
Р	Exam_ID	integer	NNNN	6	Unique number id for all exam	3
F	Course_ID	integer	NNNN	6		1

#### **Course table**

P/F	Field Name	Data Type	Data format	Field Size	Description	Example
Р	Course_ID	integer	NNNN	6	Unique number id for all course	3
	Course_Name	Varchar		50	name of the course	C#
					course table should know the	
F	Instructor_ID	integer	NNNN	6	instructor id	3
F	Department_ID	integer	NNNN	6		200

#### instructor table

P/F	Field Name	Data Type	Data format	Field Size	Description	Example
Р	Instructor_ID	integer	NNNN	6	Unique number id for all instructor	8
	Instructor_name	varchar		50	name for each instructor	saleh
F	Department_ID	integer	NNNN		Unique number id for all department foreign key	400

## question table

	•							
P/F	Field Name	Data Type	Data format	Field Size	Description	Example		
-	Overtion ID		AINININI		Hairman and an id famall an artist	0		
Р	Question_ID	integer	NNNN	6	Unique number id for all question	8		
					the question that the student			
	Question_text	varchar		3	should answer	mcq		
					type of question if it is mcq or true			
	Question_type	varchar		200	or false	mcq		
						C# is		
						designed		
	option_a	varchar		200	option 1 for the question	for		
						C# was		
						developed		
	option_b	varchar		200	option 2 for the question			
						C# is a		
	option_c	varchar		200	option 3 for the question	modern		
	option_d	varchar		200	option 4 for the question	All of above		
	model_answer	varchar		1	the answer for each qusetion	D		
					the number of the course for each			
F	Course_ID	integer	NNNN	6	exam	1		

# **Topic table**

P/F	Field Name	Data Type	Data format	Field Size	Description	Example
Р	Topic_ID	integer	NNNN	6	Unique number id for all topic	22
	Topic_Name	varchar		50	name for each topic	data types
					the number of the course for each	
F	Course_ID	integer	NNNN	6	exam	3

## **Exam\_has\_questions table**

	P/F	Field Name	Data Type	Data format	Field Size	Description	Example
	F	Exam_ID	integer	NNNN	6	composite key	1
ĺ	F	Question_ID	integer	NNNN	6		38

### Student\_answer\_question

P/F	Field Name	Data Type	Data format	Field Size	Description	Example
F	Student_ID	integer	NNNN	6	composite key	1
F	Question_ID	integer	NNNN	6	composite key	38
F	Exam_ID	integer	NNNN	6	Foreign key	1
	answer	varchar		1		Т

# student\_takes\_course

P/F	Field Name	Data Type	Data format	Field Size	Description	Example
F	Student_ID	integer	NNNN	6	composite key	13
F	Course_ID	integer	NNNN	6	composite key	7

# student\_takes\_exam

P/F	Field Name	Data Type	Data format	Field Size	Description	Example
F	Student_ID	integer	NNNN	6	composite key	1
F	Exam_ID	integer	NNNN	6	composite key	1
	Grade	integer	NNNN	6		4

### **Stored Procedure**

ID	Name	Input	Input Description	Description
		crs_id int	Course Id	
		crs_name varchar(50)	Course Name	update the department id ,
1	Course_name_instructorId_deptId_Update	Instructor_id int	Instructor Id	instructor id and course name
		dept_id int	Department Id	
		courseld	-	for doloto corres rome if in
2	delete_course_proc	Referrrer	For Tracing Error Location	use for delete course name if is valid
2	delete describerant con-	DeptId int	-	use for delete department id if is
3	delete_department_proc	Referrer varchar(max)	-	valid
		Examid	Exam Id	
4	delete_exam_has_questions_proc	questionID	Question Id	use for delete exam id and question id if is valid
		referrer	-	question la li is valia
,		Examid	-	6 11.
5	delete_exam_proc	referrer	-	use for delete exam id if is valid
		instructorId	-	use for delete instructor id if is
6	delete_instructor_proc	referrer	-	valid
		questionID	-	use to delete instructor id if is
7	delete_question_proc	referrer	-	valid
		studentId	Student Id	
		ExamID	-	use for delete student id and
8	delete_student_answer_question_proc	QuestionID	-	exam id if is valid
		referrer	-	
		studentId	-	
9	delete_student_proc	referrer	-	delete student id
		studentid	-	
10	delete_student_takes_course_proc	courseid	-	delete student id and course id
	<u> </u>	referrer	-	
		studentId	-	
11	delete student takes exam proc	ExamID	-	use to delete exam id and student
	<u></u>	referrer	-	id from student take exam table
		topicId	Topic Id	delete the topic id from topic
12	delete_topic_proc	referrer	- Topic id	table
		Dep_ld int	_	
13	Department_Name_Update	dep_name	Department Name	update the department name
			Table Where Error	
14	ErrorLogInsert	affectedTable	Occurred	if there is an error its throw an
		referrer	-	exeption to handle it
15	Exam_courseNum_Update	Exam_id	-	update the exam id and number
13	Exam_codiscivani_opuate	Course_Id	-	·
16	ExamCorrection	ExamNum	-	correct the answer of student exam if the answer is correct or
10	LAGITICOTTECTION	StdID	-	wrong
		course	Course Id	
17	generate_exam	mcq	Number of MCQ questions	generate an exam for the student randomly
		tf	Number of T/F questions	randonny
18	Get_Course_Topics_Report	crs_ld	-	report to select coursee name and topic name from both tables
10	got over guardiana	referrer	-	colort the greation table
19	get_exam_questions_proc	ExamId	-	select the question table

# **Stored Procedure**

20	get_exam_with_stu_answer_proc	referrer	-	join table student and question table and select them
		Examid	-	
		studentid	-	
21	Get_Instructor_Course_Report	ins_id		select student id as a foreign key from course table and the count of student that instructor have
22	Get_Student_Department	Dept_ID	-	select student id and name that join a department
23	Get_Student_Grade_Report	std_id	-	select in one table the grade for each tudent and his name , id and the course name
	Insert_Course	id	-	insert a new values in course table if there is no value for this id
24		name	Course Name	
24		dept	-	
		instruc	-	
25	Innert Second	id	-	insert a new value in department
25	Insert_Depart	name	Department Name	table if its not have the same id
		id	-	insert a new id for exam and
26	Insert_Exam	course	Course Id	course if there is an id
		exam	-	insert a new value in table exam has question
27	Insert_ExQues	question	-	
	Insert_Instrc	id	-	insert a new value in instructor table if its not a duplicate id
28		name	Instructor Name	
		dept	Department Id	
	Insert_Question	id	-	insert a new valuesin table question
		qtext	Question Text	
		atyne	Question Type (MCQ,	
		qtype	T/F)	
29		op1	Option 1	
23		op2	Option 2	
		op3	Option 3	
		op4	Option 4	
		model	Model Answer	
		course	Course Id	
30	Insert_StuCourse	student	-	adding a new values for table
		course	-	Student_takes_course If its valid
	Insert_Student	id	-	adding a new row to student table
31		name	Student Name	
		dept	-	
	Insert_StuExam	student	-	adding a new row to Student_takes_exam
32		exam	-	
		grade	Student Grade	
33	Insert_StuQuestion	student	-	adding a new row to Student_answer_question table if its not exists
		question	-	
		exam	-	
		answer	-	
34	Insert_Topic	name	-	adding a new row to topic table
		course	-	

### **Stored Procedure**

35	Instructor_namedeptId_Update	instructor_id	-	update instructor name and his
		ins_name	-	new department
		instructor_dept	-	
36	Question_ModelAnswer_Update	q_id	-	update the model answer in question table
		q_ans	-	
37	sel_Course	id	-	select course table
	sel_exam	id	-	select exam table
38	sel_stucourse	id	-	select student take course table
30		id2	-	
	sel_studanswer	studentid	-	select Student_answer_question table
39		question id	-	
		Examid	-	
40	sel_stuexam	id	Student Id	select table Student_takes_exam
+0		id2	Exam Id	select table stadent_takes_exam
41	select_Dept	id	-	select department table
42	select_instu	id	-	select instructor table
43	select_quest	id	-	select question table
44	select_student	id	-	select student table
45	select_Topic	id	-	select topic table
46	selexqu	id	Exam Id	select exam has question
+0		id2	Question Id	
	Student_AnswerID_Update	student_id	-	update Student_answer_question table
47		question_id	-	
.,		exam_id	-	
		Answer	-	
48	Student_Course_Update	student_id	-	update Student_takes_course
		course_id	-	apuate student_takes_course
	Student_grade_Update	student_id	-	
49		exam_id	-	update Student_Takes_Exam —
		stud_grade	-	
50	Student_Question_Update	Exam_id	-	update Exam_has_questions
30		Question_id	-	
	Student_Update	std_id	-	update student table
51		std_name	-	
		depart_id	-	
52	Topic_name_courseld_Update	top_id	-	
		top_name	-	update Topic
		topic_course_id	-	