



# **Examination System Documentation**

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# 1. Tables

## 1.1. Table: Admin

Name		Data type	Description / Attributes
	 id	int	Identity / Auto increment
	admin_name	varchar(MAX)	
	 admin_email	nvarchar(255)	Nullable
	admin_password	varchar(MAX)	




## Linked from

Table		Join	Title / Name / Description
	Branch	Adminid = Branchadmin_id_FK	FK__Branch__ admin_id_ 45BE5BA9
	Branch	Adminid = Branchadmin_id_FK	FK__Branch__ admin_id_ 68487DD7
	Course	Adminid = Courseadmin_id_FK	FK__Course__ admin_id_ 7FEAFD3E
	Instructor	Adminid = Instructoradmin_id_FK	FK__Instructo__ admin_ 3D5E1FD2
	Student	Adminid = Studentadmin_id_FK	FK__Student__ admin_i_ 44FF419A
	Track	Adminid = Trackadmin_id_FK	FK__Track__ admin_id_ 46B27FE2
	Track	Adminid = Trackadmin_id_FK	FK__Track__ admin_id___7C4F7684



## Unique keys

Columns		Name / Description
	id	PK__Admin__ 3213E83FAE44744D
	admin_email	constraint_aemail

## 1.2. Table: Branch

Name		Data type	Description / Attributes
	branch_id	int	Identity / Auto increment
	branch_name	varchar(MAX)	Nullable
	admin_id_FK	int	Nullable References: Admin


### Links to

Table	Join	Title / Name / Description
 Admin	<b>Branch</b> admin_id_FK = Adminid	FK__Branch__ admin_id_ 45BE5BA9
 Admin	<b>Branch</b> admin_id_FK = Adminid	FK__Branch__ admin_id_ 68487DD7



### Linked from

Table	Join	Title / Name / Description
 Branch_Has_Track	<b>Branch</b> branch_id = Branch_Has_Trackbranch_id_FK	FK__Branch_Ha_ branc_ 59FA5E80



### Unique keys

Columns	Name / Description
 branch_id	PK__Branch_ E55E37DE154B2CBA

## 1.3. Table: Branch Has Track

Name		Data type	Description / Attributes
	track_id_FK	int	References: Track
	branch_id_FK	int	References: Branch






### Links to

Table	Join	Title / Name / Description
 Branch	<b>Branch_Has_Track</b> branch_id_FK = Branchbranch_id	FK__Branch_Ha_ branc_ 59FA5E80
 Track	<b>Branch_Has_Track</b> track_id_FK = Tracktrack_id	FK__Branch_Ha_ track_ 59063A47



### Unique keys

Columns	Name / Description
 track_id_FK, branch_id_FK	PK__Branch_H_ 9FE507688E6F7BB4






## 1.4. Table: Course

Name		Data type	Description / Attributes
	 crs_id	int	Identity / Auto increment
	crs_name	varchar(MAX)	
	admin_id_FK	int	Nullable References: Admin
	topic_id_FK	int	Nullable References: Topic

### Links to

Table	Join	Title / Name / Description
 Admin	<b>Course</b> admin_id_FK = Adminid	FK_Course_admin_id_ 7FEAFD3E
 Topic	<b>Course</b> topic_id_FK = Topic topic_id	fk_topic





### Linked from

Table	Join	Title / Name / Description
 Exam	<b>Course</b> crs_id = Examcrs_id_FK	FK_Exam_crs_id_FK_ 4CA06362
 Instructor_Teach_Course	<b>Course</b> crs_id = Instructor_Teach_Coursecrs_id_FK	FK_Instructo_crs_i_ 5DCAEF64
 Questions	<b>Course</b> crs_id = Questionscrs_id_FK	FK_Questions_crs_i_ 4F7CD00D
 Student_Register_Course	<b>Course</b> crs_id = Student_Register_Coursecrs_id_FK	FK_Student_R_crs_i_ 693CA210
 Track_Has_Course	<b>Course</b> crs_id = Track_Has_Coursecrs_id_FK	FK_Track_Has_crs_i_ 619B8048

### Unique keys

Columns	Name / Description
 crs_id	PK_Course_ ECAF537571814E94


## 1.6. Table: Exam Has Questions

Name		Data type	Description / Attributes
	 exam_id_FK	int	<b>References:</b> Exam
	 ques_id_FK	int	<b>References:</b> Questions










### Links to

Table	Join	Title / Name / Description
➤ Exam	<b>Exam_Has_Questions</b> exam_id_FK = Examexam_id	FK_Exam_Has__exam__6477ECF3
➤ Questions	<b>Exam_Has_Questions</b> ques_id_FK = Questionsques_id	FK_Exam_Has__ques__656C112C

### Unique keys

Columns	Name / Description
 exam_id_FK, ques_id_FK	PK_Exam_Has_6661ABB8B28933CE

## 1.7. Table: Instructor

Name		Data type	Description / Attributes
	 ins_id	int	<b>Identity / Auto increment</b>
	ins_name	varchar(MAX)	
	 ins_email	nvarchar(255)	<b>Nullable</b>
	ins_password	varchar(MAX)	<b>Default:</b> 12345
	ins_phone	varchar(MAX)	
	ins_salary	int	
	admin_id_FK	int	<b>Nullable</b> <b>References:</b> Admin

### Links to

Table	Join	Title / Name / Description
➤ Admin	<b>Instructor</b> admin_id_FK = Adminid	FK_Instructo__admin__3D5E1FD2

### Linked from

Table	Join	Title / Name / Description
➤ Instructor_Teach_Course	<b>Instructor</b> ins_id = Instructor_Teach_Courseins_id_FK	FK_Instructo__ins_i__5CD6CB2B
➤ Track	<b>Instructor</b> ins_id = Tracktrack_manager	FK_Track__ins_id_FK__403A8C7D
➤ Track_Assign_Instructor	<b>Instructor</b> ins_id = Track_Assign_Instructorins_id_FK	FK_Track_Ass__ins_i__5535A963

### Unique keys

Columns	Name / Description
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🔑	ins_id	PK__Instruct_ 9CB72D20F3D54D58
🔑	ins_email	constraint_name

## 1.8. Table: Instructor Teach Course

Name		Data type	Description / Attributes
📄	ins_id_FK	int	<b>References:</b> Instructor
📄	crs_id_FK	int	<b>References:</b> Course

### Links to

Table	Join	Title / Name / Description
➤ Course	<b>Instructor_Teach_Course</b> crs_id_FK = Course crs_id	FK__Instructo_ crs_i_ 5DCAEF64
➤ Instructor	<b>Instructor_Teach_Course</b> ins_id_FK = Instructor ins_id	FK__Instructo_ ins_i_ 5CD6CB2B

### Unique keys

Columns	Name / Description
🔑 ins_id_FK, crs_id_FK	PK__Instruct_ 5C0D3DF9C6051A6D

## 1.9. Table: Questions

Name		Data type	Description / Attributes
📄	ques_id	int	<b>Identity / Auto increment</b>
📄	ques_name	varchar(MAX)	
📄	ques_type	varchar(MAX)	
📄	ques_model_answer	varchar(MAX)	
📄	crs_id_FK	int	<b>Nullable</b> <b>References:</b> Course
📄	choice_1	nvarchar(MAX)	
📄	choice_2	nvarchar(MAX)	
📄	choice_3	nvarchar(MAX)	<b>Nullable</b>
📄	choice_4	nvarchar(MAX)	<b>Nullable</b>

### Links to


Table	Join	Title / Name / Description
➤ Course	<b>Questions</b> crs_id_FK = Course crs_id	FK__Questions_ crs_i_ 4F7CD00D

### Linked from














Table	Join	Title / Name / Description
➤ Exam_Has_Questions	<b>Questions</b> ques_id = Exam_Has_Questions ques_id_FK	FK__Exam_Has__ques__ 656C112C
➤ Student_Take_Exam_Has_Questions	<b>Questions</b> ques_id = Student_Take_Exam_Has_Questions ques_id_FK	FK__Student_T_ ques__ 71D1E811

### Unique keys





Columns		Name / Description
	ques_id	PK__Question__ 5BF46E9B81F1634C




## 1.10. Table: Student

Name		Data type	Description / Attributes
	 SSN	int	
	stud_fname	varchar(MAX)	
	stud_lname	varchar(MAX)	
	 stud_email	nvarchar(255)	<b>Nullable</b>
	stud_password	varchar(MAX)	<b>Default:</b> 12345
	stud_phone	varchar(MAX)	
	stud_address	varchar(MAX)	
	stud_gender	varchar(MAX)	
	stud_birthdate	date	
	track_id_FK	int	<b>Nullable</b> <b>References:</b> Track
	admin_id_FK	int	<b>Nullable</b> <b>References:</b> Admin


### Links to

Table	Join	Title / Name / Description
 Admin	<b>Student</b> admin_id_FK = Adminid	FK__Student__ admin_i_ 44FF419A
 Track	<b>Student</b> track_id_FK = Tracktrack_id	FK__Student__ track_i_ 440B1D61






### Linked from

Table	Join	Title / Name / Description
 Student_Attend_Exam	<b>Student</b> SSN = Student_Attend_ExamSSN_FK	FK__Student__A__SSN_F_ 6C190EBB
 Student_Register_Course	<b>Student</b> SSN = Student_Register_CourseSSN_FK	FK__Student__R__SSN_F_ 68487DD7
 Student_Take_Exam_Has_Questions	<b>Student</b> SSN = Student_Take_Exam_Has_QuestionsSSN_FK	FK__Student__T__SSN_F_ 6FE99F9F



### Unique keys

Columns		Name / Description
	SSN	PK__Student__ CA1E8E3D88A109A5
	stud_email	constraint_email


### 1.11. Table: Student Attend Exam

Name		Data type	Description / Attributes
	 SSN_FK	int	<b>References:</b> Student
	 exam_id_FK	int	<b>References:</b> Exam
	exam_grade	int	





#### Links to

Table	Join	Title / Name / Description
 Exam	<b>Student_Attend_Exam</b> exam_id_FK = Examexam_id	FK_Student_A_exam__6D0D32F4
 Student	<b>Student_Attend_Exam</b> SSN_FK = StudentSSN	FK_Student_A_SSN_F_6C190EBB



#### Unique keys

Columns	Name / Description
 SSN_FK, exam_id_FK	PK_Student__E762641000AAE545

### 1.12. Table: Student Register Course

Name		Data type	Description / Attributes
	 SSN_FK	int	<b>References:</b> Student
	 crs_id_FK	int	<b>References:</b> Course







#### Links to

Table	Join	Title / Name / Description
 Course	<b>Student_Register_Course</b> crs_id_FK = Coursecrs_id	FK_Student_R_crs_i_693CA210
 Student	<b>Student_Register_Course</b> SSN_FK = StudentSSN	FK_Student_R_SSN_F_68487DD7




#### Unique keys

Columns	Name / Description
 SSN_FK, crs_id_FK	PK_Student__9A7A8704A90E4293


### 1.13. Table: Student Take Exam Has Questions

Name		Data type	Description / Attributes
 	st_eid	int	<b>Identity / Auto increment</b>
	SSN_FK	int	<b>Nullable References:</b> Student
	exam_id_FK	int	<b>Nullable References:</b> Exam
	ques_id_FK	int	<b>Nullable References:</b> Questions
	answer	varchar(50)	




#### Links to

Table	Join	Title / Name / Description
 Exam	<b>Student_Take_Exam_Has_Questions</b> exam_id_FK = Examexam_id	FK_Student_T_exam_70DDC3D8
 Questions	<b>Student_Take_Exam_Has_Questions</b> ques_id_FK = Questionsques_id	FK_Student_T_ques_71D1E811
 Student	<b>Student_Take_Exam_Has_Questions</b> SSN_FK = StudentSSN	FK_Student_T_SSN_F_6FE99F9F

#### Unique keys

Columns	Name / Description
 st_eid	PK_Student__8215F58851E3F3BE


### 1.14. Table: Topic

Name		Data type	Description / Attributes
 	topic_id	int	<b>Identity / Auto increment</b>
	topic_name	varchar(MAX)	





#### Linked from

Table	Join	Title / Name / Description
 Course	<b>Topic</b> topic_id = Coursetopic_id_FK	fk_topic

#### Unique keys

Columns	Name / Description
 topic_id	PK_Topic_ D5DAA3E940F73E1B

## 1.15. Table: Track

Name		Data type	Description / Attributes
	track_id	int	<b>Identity / Auto increment</b>
	track_name	varchar(MAX)	
	track_manager	int	<b>Nullable</b> <b>References:</b> Instructor
	admin_id_FK	int	<b>Nullable</b> <b>References:</b> Admin

### Links to

Table	Join	Title / Name / Description
➤ Admin	<b>Track</b> admin_id_FK = Adminid	FK_Track_admin_id_ 46B27FE2
➤ Admin	<b>Track</b> admin_id_FK = Adminid	FK_Track_admin_id_ 7C4F7684
➤ Instructor	<b>Track</b> track_manager = Instructorins_id	FK_Track_ins_id_FK_ 403A8C7D



### Linked from

Table	Join	Title / Name / Description
➤ Branch_Has_Track	<b>Track</b> track_id = Branch_Has_Tracktrack_id_FK	FK_Branch_Ha_track_ 59063A47
➤ Student	<b>Track</b> track_id = Studenttrack_id_FK	FK_Student_track_i_ 440B1D61
➤ Track_Assign_Instructor	<b>Track</b> track_id = Track_Assign_Instructortrack_id_FK	FK_Track_Ass_track_ 5629CD9C
➤ Track_Has_Course	<b>Track</b> track_id = Track_Has_Coursetrack_id_FK	FK_Track_Has_track_ 60A75C0F

### Unique keys

Columns	Name / Description
 track_id	PK_Track_ 24ECC82EC0DB8112

## 1.16. Table: Track Assign Instructor

Name		Data type	Description / Attributes
	ins_id_FK	int	<b>References:</b> Instructor
	track_id_FK	int	<b>References:</b> Track

### Links to

Table	Join	Title / Name / Description
➤ Instructor	<b>Track_Assign_Instructor</b> ins_id_FK = Instructorins_id	FK_Track_Ass_ins_i_ 5535A963

➤	Track	<b>Track_Assign_Instructor</b> track_id_FK = Tracktrack_id	FK_Track_Ass_ track_ 5629CD9C
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## Unique keys

Columns		Name / Description
🔑	ins_id_FK, track_id_FK	PK_Track_As_ 931C6FD33B883EDD

## 1.17. Table: Track Has Course

Name		Data type	Description / Attributes
📄	🔑 track_id_FK	int	<b>References:</b> Track
📄	🔑 crs_id_FK	int	<b>References:</b> Course

## Links to





Table		Join	Title / Name / Description
➤	Course	<b>Track_Has_Course</b> crs_id_FK = Coursecrs_id	FK_Track_Has_ crs_i_ 619B8048
➤	Track	<b>Track_Has_Course</b> track_id_FK = Tracktrack_id	FK_Track_Has_ track_ 60A75C0F

## Unique keys





Columns		Name / Description
🔑	track_id_FK, crs_id_FK	PK_Track_Ha_ A11FF1CAE5DED143

## 2. Views



### 2.1. iew: branchAssignTrack

Name		Data type	Description / Attributes
	Branch_Name	varchar(MAX)	Nullable
	Track_Name	varchar(MAX)	
	Branch_ID	int	
	Track_ID	int	




### 2.2. View: branchAssignTrackView

Name		Data type	Description / Attributes
	Branch_Name	varchar(MAX)	Nullable
	Track_Name	varchar(MAX)	
	Branch_ID	int	
	Track_ID	int	





### 2.2. View: branchView

3	Name		Data type	Description / Attributes
		Branch ID	int	Identity / Auto increment
		Branch Name	varchar(MAX)	Nullable






### 2.4. View: courseView

Name		Data type	Description / Attributes
	Course ID	int	
	Course Name	varchar(MAX)	
	Topic Name	varchar(MAX)	





### 2.5. View: instructorTeachCourse

Name		Data type	Description / Attributes
	ins_name	varchar(MAX)	
	crs_name	varchar(MAX)	
	ins_id	int	
	crs_id	int	






### 2.6. View: instructorView

Name		Data type	Description / Attributes
	ins_id	int	Identity / Auto increment
	ins_name	varchar(MAX)	
	ins_email	nvarchar(255)	Nullable
	ins_phone	varchar(MAX)	
	ins_salary	int	










## 2.7. View: studentAssignCourse

Name		Data type	Description / Attributes
	Full_Name	varchar(MAX)	
	crs_name	varchar(MAX)	
	SSN	int	
	crs_id	int	



## 2.8. View: studentDetails

Name		Data type	Description / Attributes
	SSN	int	
	Full Name	varchar(MAX)	
	Gender	varchar(MAX)	
	Email	nvarchar(255)	Nullable
	Phone	varchar(MAX)	



## 2.9. View: studentView

Name		Data type	Description / Attributes
	SSN	int	
	stud_fname	varchar(MAX)	
	stud_lname	varchar(MAX)	
	stud_email	nvarchar(255)	Nullable
	stud_phone	varchar(MAX)	
	stud_address	varchar(MAX)	
	stud_gender	varchar(MAX)	
	stud_birthdate	date	
	track_id_FK	int	Nullable




## 2.10. View: topicsDetails

Name		Data type	Description / Attributes
	Topic ID	int	Identity / Auto increment
	Topic Name	varchar(MAX)	

## 2.11. View: Track Has CourseView

Name		Data type	Description / Attributes
	Track Name	varchar(MAX)	
	Course Name	varchar(MAX)	

## 2.12. View: trackView

Name		Data type	Description / Attributes
	Track ID	int	
	Track Name	varchar(MAX)	
	Track Manager	varchar(MAX)	

## 3. Procedures

### 3.1. Procedure: assignCourseToTrack

	Name	Data type	Description
✱@	course_id	int	
✱@	track_id	int	
✱@	operation	nvarchar(10)	
✱@➤	result	int	

### 3.2. Procedure: AssignInstructorToCourse

	Name	Data type	Description
✱@	ins_id	int	
✱@	crs_id	int	
✱@	operation	nvarchar(10)	
✱@➤	result	int	

### 3.3. Procedure: assignStudentToCourse

	Name	Data type	Description
✱@	ssn	int	
✱@	crs_id	int	
✱@	operation	nvarchar(10)	
✱@➤	result	int	

### 3.4. Procedure: assignTrackToBranch

	Name	Data type	Description
✱@	track_id	int	
✱@	branch_id	int	
✱@	operation	nvarchar(10)	
✱@➤	result	int	

### 3.5. Procedure: check branch

	Name	Data type	Description
✱@	id	int	

### 3.6. Procedure: check instructor

	Name	Data type	Description
✱@	id	int	

### 3.7. Procedure: check topic

	Name	Data type	Description
✱@	id	int	



### **3.8. Procedure: course insights**

Name		Data type	Description
*@	id	int	

### **3.9. Procedure: dmlQueries**

Name		Data type	Description
*@	tablename	nvarchar(50)	
*@	operation	nvarchar(10)	
*@	columns	nvarchar(MAX)	
*@	values	nvarchar(MAX)	
*@	condition	nvarchar(MAX)	
*@	nestlevel	int	

### **3.10. Procedure: Exam Correction**

Name		Data type	Description
*@	st_id	int	
*@	exam_id	int	

### **3.11. Procedure: generat1eexam**

Name		Data type	Description
*@	examname	nvarchar(100)	
*@	examduration	int	
*@	examdate	date	
*@	courseid	int	
*@	totalquestions	int	

### **3.12. Procedure: generateexam**

Name		Data type	Description
*@	coursename	nvarchar(100)	

### **3.13. Procedure: Get Exam Details**

Name		Data type	Description
*@	ins_id	int	

### **3.14. Procedure: get\_id**

Name		Data type	Description
*@	table	varchar(MAX)	
*@	param	varchar(MAX)	
*@	nestlevel	int	

### **3.15. Procedure: get\_name**

	Name	Data type	Description
*@	table	varchar(MAX)	
*@	email	varchar(MAX)	

### **3.16. Procedure: get\_password**

	Name	Data type	Description
*@	table	varchar(MAX)	
*@	email	varchar(MAX)	
*@	nestlevel	int	

### **3.17. Procedure: GetCourseTopics**

	Name	Data type	Description
*@	topicId	int	

### **3.18. Procedure: GetExamQuestionsAndChoices**

	Name	Data type	Description
*@	examId	int	

### **3.19. Procedure: GetInsCourse**

	Name	Data type	Description
*@	insId	int	

### **3.20. Procedure: GetInstructorCourseQuestions**

	Name	Data type	Description
*@	ins_id	int	
*@	course_name	varchar(100)	
*@	result	int	

### **3.21. Procedure: GetInstructorIdByName**

	Name	Data type	Description
*@	InstructorName	nvarchar(100)	

### **3.22. Procedure: GetInstructorStudentGrades**

	Name	Data type	Description
*@	insId	int	

### **3.23. Procedure: GetLastInsertedTrackId**

- Fetch the last identity value in the current session

### **3.24. Procedure: GetTopicIdByName**

Name		Data type	Description
*@	TopicName	nvarchar(100)	

### **3.25. Procedure: GetRandomExamQuestions**

Name		Data type	Description
*@	course_name	nvarchar(100)	
*@	ssn	int	

### **3.26. Procedure: GetStudentExamReport**

Name		Data type	Description
*@	examId	int	
*@	studentId	int	

### **3.27. Procedure: GetStudentGrades**

Name		Data type	Description
*@	stId	int	

### **3.28. Procedure: GetStudentGradesStatus**

Name		Data type	Description
*@	ssn	int	

### **3.29. Procedure: GetStudentInfoByDepartment**

Name		Data type	Description
*@	TracktNo	int	

### **3.30. Procedure: GetStudentInfoByTracks**

Name		Data type	Description
*@	TracktNo	int	

### **3.32. Procedure: Ins\_Course**

Name		Data type	Description
*@	insId	int	

### **3.33. Procedure: Insert Student Answers**

Name		Data type	Description
*@	st_id	int	
*@	exam_id	int	
*@	ques_id	int	
*@	answer	nvarchar(150)	

### **3.34. Procedure: InsertTrack**

Name		Data type	Description
⌘@	TrackName	nvarchar(100)	
⌘@	InstructorId	int	
⌘@	AdminId	int	
⌘@	TrackId	int	

### **3.35. Procedure: instructorInfo**

- display all instructors info

### **3.36. Procedure: isStudTakeExam**

Name		Data type	Description
⌘@	ssn	int	
⌘@	crs_name	nvarchar(100)	
⌘@	result	int	

### **3.37. Procedure: login\_check**

Name		Data type	Description
⌘@	table	varchar(MAX)	
⌘@	email	varchar(MAX)	
⌘@	password	varchar(MAX)	
⌘@	nestlevel	int	

### **3.38. Procedure: search**

Name		Data type	Description
⌘@	table	varchar(MAX)	
⌘@	col	varchar(MAX)	
⌘@	search_text	varchar(MAX)	
⌘@	nestlevel	int	

### **3.39. Procedure: stud Course**

Name		Data type	Description
⌘@	ssn	int	

### **3.40. Procedure: StudentInfo**

- display all students info