

Examination System SQL Documentation

Examination System

Tools: SQL Server

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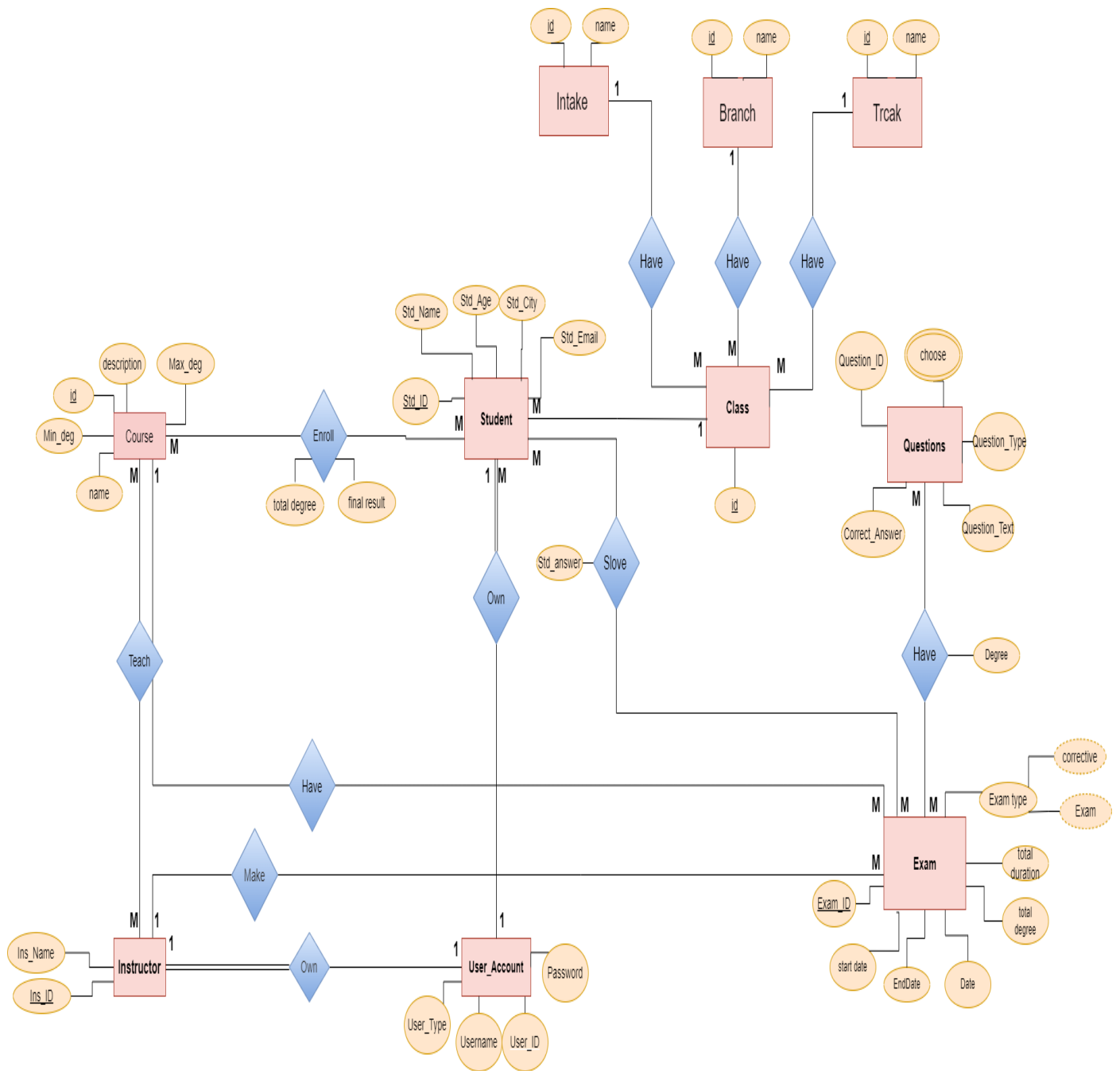
Examination System SQL

A system that contains many permissions, including student permissions, admin permissions, and instructor permissions
And training manager.

Where you can add, modify, or remove any item in its section.

The instructor can set exams for students studying his course in the system, the student can answer the exam, and then the instructor returns and corrects the exam and assigns the student's degree. The system is integrated and designed in a simple and easy way. You can use a file query for testing to test this system.

ERD



Mapping Table

Question

<u>Ques_ID</u>	Text	Type	Correct Answer
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Choise

<u>Question_ID</u>	Choose
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Instructor

<u>Ins_ID</u>	Name	User_Type
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Intake

<u>ID</u>	Name	Year
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Track

<u>ID</u>	Name
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Branch

<u>ID</u>	Name
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Student

<u>Std_ID</u>	Name	Std_Age	Std_City	Email	User_Type	Class_ID
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Course

<u>Crs_ID</u>	Name	Desc	Max_deg	Min_deg
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Exam

<u>ID</u>	Type	Start_Date	End_Date	Date	Total Duration	Total Degree	Crs_ID	Instructor_ID	Class_ID
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User_Account

<u>User_ID</u>	UserName	Password	User_Type
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Class

<u>Class_ID</u>	Track_ID	Branch_ID	Branch_ID
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Instructor_Crouse

<u>Ins_ID</u>	<u>Crs_ID</u>
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Student_Crouse

<u>Std_ID</u>	<u>Crs_ID</u>	Total Dagee	Final Result
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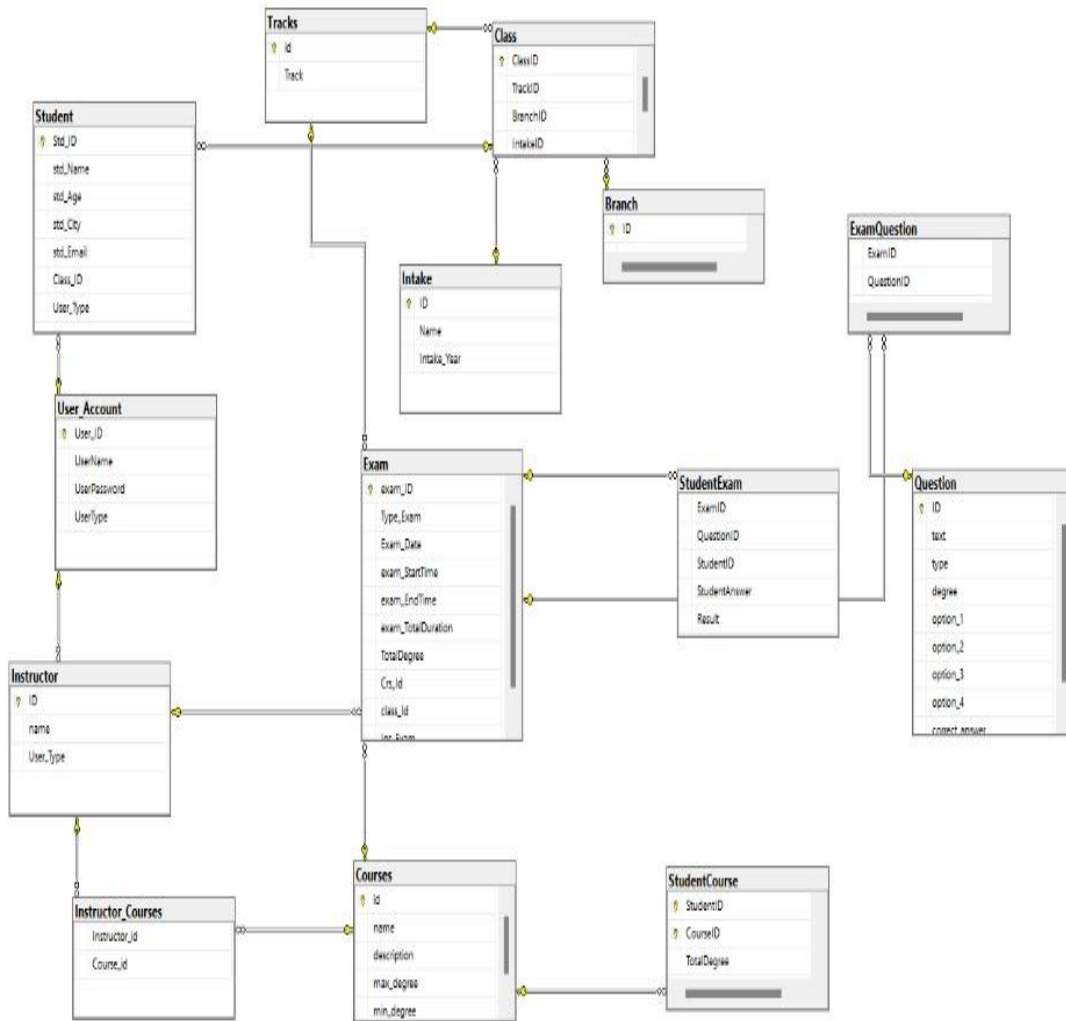
Student_exam

<u>Exam_ID</u>	<u>Std_ID</u>	<u>Question_ID</u>	Student Answer	Result
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Exam_question

<u>exam_ID</u>	<u>question_ID</u>	Degree
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Diagram















Tables

-   `dbo.Branch`
-   `dbo.choise`
-   `dbo.Class`
-   `dbo.Courses`
-   `dbo.Exam`
-   `dbo.ExamQuestion`
-   `dbo.Instructor`
-   `dbo.Instructor_Courses`
-   `dbo.Intake`
-   `dbo.Question`
-   `dbo.Student`
-   `dbo.StudentCourse`
-   `dbo.StudentExam`
-   `dbo.Track`
-   `dbo.User_Account`















Stored Procedure

-   `dbo.AddQuestions_Proc`
-   `dbo.AddStudentsToExam`
-   `dbo.CreateExam`
-   `dbo.CreateUserLogin`
-   `dbo.crs_std_inst_INFO_by_course_id`
-   `dbo.GetExamsByYearCourseInstructor`
-   `dbo.InstructorDataOrderedBy_Proc`
-   `dbo.MangerDataOrderedBy_Proc`
-   `dbo.OrderByStd_Proc`
-   `dbo.ShowDataByYear`
-   `dbo.StoreStudentAnswers`
-   `dbo.StudentDataOrderedBy_Proc`
-   `dbo.UpdateResults`
-   `dbo.UpdateYearOnIntakeInsert`










Function

-   `dbo.GetExamsByYear`
-   `dbo.InstructorSearchByPattern_FN`
-   `dbo.ManagerSearchByPattern_FN`
-   `dbo.SearchByPatternStdTable_FN`
-   `dbo.StdCourseInfoByStudentID_FN`
-   `dbo.StudentSearchByPattern_FN`

View

-   `dbo.ClassDetailsView`
-   `dbo.CourseView`
-   `dbo.ExamInstructorView`
-   `dbo.InstructorCourseView`
-   `dbo.StudentCourseView`
-   `dbo.StudentExamView`
-   `dbo.StudentView`

Trigger

-  `Trg_Exam`
-  `trg_ExamQuestion_inserted`
-  `trg_UpdateFinalResult`
-  `Trg_AddExamFromInstructor`
-  `Trg_MarkExam`
-  `Trg_UpdateStudentAnswer`
-  `Trg_AddExamFromInstructor`
-  `Trg_MarkExam`
-  `Trg_UpdateStudentAnswer`

Index

- PK Branch 3214EC273B53D610 (Clustered)
- PK_Class_CB1927A04900CF40 (Clustered)
- course_index_byname (Non-Unique, Non-Clustered)
- PK_Courses_3213E83F4A862146 (Clustered)
- exam_index_bytype (Non-Unique, Non-Clustered)
- PK_Exam_9CB146511DAA616C (Clustered)
- PK Intake 3214EC277D56518C (Clustered)
- PK_Question_3214EC27EF31F8C5 (Clustered)
- question_index_bytype (Non-Unique, Non-Clustered)
- instructor_index_byname (Non-Unique, Non-Clustered)
- PK_Instruct_3214EC2748E37BF0 (Clustered)
- PK_Question_3214EC27EF31F8C5 (Clustered)
- question_index_bytype (Non-Unique, Non-Clustered)
- examStudent_index_byresult (Non-Unique, Non-Clustered)
- examStudent_index_byresult (Non-Unique, Non-Clustered)
- PK_Class_3213E83F272660D6 (Clustered)
- PK_User_Acc_1788CCAC74CC2EAF (Clustered)

Description for all object in Database

Stored procedure:

CreateExam	Proc to create Exam in table exam
AddQuestions_Proc	Proc to add question to exam in table examquestion
AddStudentsToExam	Proc to add student to exam in table studentexam
StoreStudentAnswers	Proc to store answer of student in table studentexam
UpdateResults	Proc to store result of student in table studentexam
OrderBYStd_Proc	Proc to Order by Specific Column in Stusent Table
InstructorDataOrderedBy_Proc	Proc to Order by Specific Column in instructor data
MangerDataOrderedBy_Proc	Proc to Order by Specific Column in Manager data
crs_std_inst_INFO_by_course_id	Proc to Order course_student_instructor by course ID
pdateYearOnIntakeInsert	Proc to update year of intake
ShowDataBy Year	Proc to show data by year
GetExamsByYearCourseInstructor	Proc to get exam by year,course_is,instructor_id
CreateUserLogin	Proc to create User Account

Function :

InstructorSearchByPattern_FN	Func to Search By Pattern in Instructor
StudentSearchByPattern_FN	Func to Search By Pattern in Student
SearchByPatternStdTable_FN	Func to Search by Pattern to show all data from Student Table
<u>ManagerSearchByPattern_FN</u>	Func to inSearch By Pattern to show needed data
StdCourseInfoByStudentID_FN	get student result by id

View:

StudentView	View all data in student table
CourseView	View all data in course table
StudentCourseView	View student with his course
InstructorCourseView	View instructor with his course
ExamInstructorView	View all data of exam with instructor who make exam
ClassDetailsView	View all data of intake,course,branch
StudentExamView	View data of exam ,question,student name and his degree

Index :

stud_index_byname	improve the speed of data retrieval in table student by his name.
nstructor_index_byname	improve the speed of data retrieval in table instructor by his name.
course_index_byname	improve the speed of data retrieval in table course by his name.
exam_index_bytype	improve the speed of data retrieval in table exam by his type.
question_index_bytype	improve the speed of data retrieval in table question by his type.
examStudent_index_byresult	improve the speed of data retrieval in table studentexam by his result.

Trigger :

Trg_Exam	Show: Exam Created Successfully
Trg_UpdateStudentAnswer	Show: Answer Added Successfully
Trg_AddStudetToExamFromInstructor	Show: Students Added SuccessFully
Trg_MarkExam	Show: Exam Marked SuccessFully
Trg_ExamQuestion_inserted	Show: Inserting Peocess Is Successful
Trg_UpdateFinalResult	Insert in Col FinalResult Pass Or Corrective

Users

Login name	Password
Admin	Windows authentication
Training Manager	t123
Student	s123
Instructor	i123