Advanced SQL Project

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Tables:

- Course
- Department
- Exam
- Inst_Course
- Instructor
- Question
- Std_Course
- Student
- Student_Exam_Course
- Student_Exam_Question

Tables Stored Procedures:

Table Name	Select	Insert	Update	Delete
Course	SP_Select_Course	SP_Insert_Course	SP_Update_Cour se	SP_Delete_Course
Question	SP_Select_Questio n	SP_Insert_Questi on	SP_Update_Que stion	SP_Delete_Question
Instructor	SP_Select _Instructor	SP_Insert_Instruc tor	SP_Update _Instructor	SP_Delete _Instrucor
Student	Show_All_Student s	Insert_Student	Update_Student	Delete_Student
Instructor_ Course Department	SP_Get_ Instructor_Course s Show_All_Depart ments	SP_Insert_Depart ment	Update_Depart ment	Delete_Department
Student_Exam_Cour se	Show_All_Student _Exam_Course	Insert_Student_E xam_Course	Update_Student _Exam_Course	Delete_Student_Exa m Course
Topic	SP_Select_Topic	SP_Insert_Topic	SP_Update_Topi	SP_Delete_Topic
Exam	SP_Select_Exam	SP_Insert_Exam	SP_Update_Exa m	SP_Delete_Exam
Student_Exam_Ques tion	SP_Select_StdQue sAnswer	SP_Insert_StdQu esAnswer	SP_Update_StdQ uesAnswer	SP_Delete_StdQues Answer
Department	Show_All_Depart ments	Insert_Departme nt	Update_Depart ment	Delete_Department

Exam Stored Procedures:

1-Exam Generation

[dbo.Making Exam]
 Used for generation of a new exam for a specific student in a specific course

On 3 steps

- 1- Inserting a new record in [dbo.Exam] table using [dbo.SP_Insert_Exam] stored procedure
- 2- Getting Random 10 Questions from [dbo.Question] table with certain number of mcq and true/false questions then Inserting New Records in [dbo.Student_Exam_Question] with null in [Answer] column
- 3- Inserting a new record in [dbo.Student_Exam_Course] with id of student, exam, course specifying this exam information with null in [Grade] column

2-Comparison between Student Answer and Model Answer

• [dbo.GetAnswers]

Used to get Student Answer vs Model Answer & Question Score (1 for true/false, 2 for MCQ)

3-Calculation of Student's Result in a Specific Exam

• [dbo.CalcResult]

Used to Calculate Student Result in the Exam by Comparing Student's Answer vs Model Answer for Every Question and Specifying Student's Score according the the Sum of Questions Scores which the Student managed to answer correctly

4-Submitting Student's Grade in a Specific Exam

• [dbo. SubmitGrade]

Used to submit student's grade in a specific exam in a specific course in [dbo.Student_Exam_Course] table using [dbo.Update_Student_Exam_Course] stored procedure

Reports: using (SSRS & Report Builder)

- Report Sp_StudentInfo_Report : Get Students from Department Using Department ID
- Report SP_GetTopics_From_Course _Report: with Parameter Cld using Course ID
- Report SP_Get_Exam_Questions_Report : Get the questions of Exam using Exam ID
- Report SP_Get_Student_Grade_Report : Get the Grade of Student using Student ID
- Report SP_Get_Questions_Answers_Report : Get the
 Answers of Exam Questions using Exam ID
- Report SP_Instructor_Course_Report : Get the Instructor of Specific Course using Instructor Id

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