

Generated using SQL Data Dictionary demo version.

Examination_System

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Views:

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This View shows the Branch details such as Branch_ID, Branch_Name.

Column	Data Type	Nullable
Branch_ID	int	
Branch_Name	varchar(20)	X

View dbo.Course_Details_View

This View shows the Course details such as Course_ID, Course_Name, Min_Degree, Max_Degree.

Column	Data Type	Nullable
Course_ID	int	
Course_Name	varchar(20)	X
Min_Degree	int	X
Max_Degree	int	X

View dbo.Department_Details_View

This View shows the Department details such as Department_ID, Department_Name, Instuctor_Manager..

Column	Data Type	Nullable
Department_ID	int	
Department_Name	varchar(20)	X
Instuctor_Manager	int	X

View dbo.Exam_Details_View

This View shows the details of the Exam such as : Exam_ID, Exam_Type, Allowance_Options, Total_Time, Start_Time, End_Time, Exam_Year, Intake_ID, Track_ID, Course_ID, Instructor_ID.

Column	Data Type	Nullable
Exam_ID	int	
Exam_Type	varchar(20)	X
Allowance_Options	varchar(30)	X
Total_Time	int	X
Start_Time	time	X
End_Time	time	X
Exam_Year	int	X
Intake_ID	int	X
Track_ID	int	X
Course_ID	int	X
Instructor_ID	int	X

View dbo.exam_metadata

Column	Data Type	Nullable
Exam_Type	varchar(20)	X
Course_Name	varchar(20)	X
Allowance_Options	varchar(30)	X
Total_Time	int	X
Exam_Year	int	X

View dbo.Exam_Question_Details_View

This View shows the details of the Exam_Question such as : Exam_Question_ID, Exam_ID, Question_ID

Column	Data Type	Nullable
Exam_Question_ID	int	
Exam_ID	int	X
Question_ID	int	X

View dbo.Instructor_Course_Details_View

This View shows the details of the Student_Exam_Instructor such as : Student_Exam_Instructor_ID, Student_ID, Instructor_ID, Exam_ID, Student_Answer.

Column	Data Type	Nullable
Instructor_Course_ID	int	
Instructor_ID	int	X
Course_ID	int	X
Year	int	X

View dbo.Instructor_Details_View

This View shows the details of the Instructor_Course such as Instuctor_Course_ID, Instuctor_ID, Course_ID, Year.

Column	Data Type	Nullable
Instructor_ID	int	
Instructor_Name	varchar(20)	X
Instructor_Email	varchar(255)	X
Instructor_Phone	varchar(11)	X
Instructor_Salary	int	X
Department_ID	int	X

View dbo.Intake_Details_View

This View shows the Details of the Intake such as Intake_ID, Intake_Name, Intake_Year.

Column	Data Type	Nullable
Intake_ID	int	
Intake_Name	varchar(20)	X
Intake_Year	int	X

View dbo.Question_MCQ_Options_View

This View shows the details of the MCQ Options in the Exam such as : Question_Mcq_Options , Question_Id , Mcq_Option.

Column	Data Type	Nullable
Question_Mcq_Options	int	
Question_Id	int	X
Mcq_Option	varchar(100)	X

View dbo.Question_Pool_Details_View

This View shows the details of the Question_Pool such as : Question_ID, Question_Name, Question_Type, Correct_Answer, Mcq_Options, Question_Degree, Course_ID.

Column	Data Type	Nullable
Question_ID	int	
Question_Name	varchar(255)	X
Question_Type	varchar(15)	X
Correct_Answer	varchar(255)	X
Question_Degree	int	X
Course_ID	int	X

View dbo.show_exam

Column	Data Type	Nullable
Question_Id	int	
Question_Name	varchar(255)	X
Question_Type	varchar(15)	X
mcq_options	varchar(8000)	X
Question_Degree	int	X

View dbo.Student_Course_Details_View

This View shows the details of the Student_Course such as : Student_Course_ID, Student_ID, Course_ID

Column	Data Type	Nullable
Student_Course_ID	int	
Student_ID	int	X
Course_ID	int	X

View dbo.Student_Details_View

This View shows the details of the Student such as : Student_ID, Student_Name, Student_Email, Student_Phone, Intake_ID, Branch_ID, Track_ID

Column	Data Type	Nullable
Student_ID	int	
Student_Name	varchar(20)	X
Student_Email	varchar(255)	X
Student_Phone	varchar(11)	X
Intake_ID	int	X
Branch_ID	int	X
Track_ID	int	X

View dbo.Track_Details_View

This View shows the Track details such as Track_ID, Track_Name, Department_ID.

Column	Data Type	Nullable
Track_ID	int	
Track_Name	varchar(20)	X
Department_ID	int	X

Procedures:

Procedure dbo.AddBranch

This Procedure will check if this branch and the year exists will show a message , If not it will add the Branch and the

Parameter	Data Type	Default	Is Output
@Branch_Id	int		
@Branch_Name	varchar(20)		

Procedure dbo.AddNewIntake

--This Procedure will check if this intake and the year exists will show a message , If not it will add the intake and the year

Parameter	Data Type	Default	Is Output
@IntakeName	varchar(255)		
@IntakeYear	int		

Procedure dbo.correction

Correction Name: correction Type: Stored ProcedureUsage: Exam correction

No parameters.

Procedure dbo.create_exam

create_exam SP Name: *create_exam* Type: *Stored Procedure* Usage: *takes exam metadata as: exam type, allowance options, start time, end time, branch id, track id, course id and instructor id*

Parameter	Data Type	Default	Is Output
@exam_type	varchar(20)		
@allowance_option	varchar(100)		
@start_time	time		
@end_time	time		
@intake_id	int		
@Branch_Id	int		
@track_id	int		
@course_id	int		
@instructor_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(17)	

Procedure dbo.DeleteCourse

The procedure deletes course based on the course id

Parameter	Data Type	Default	Is Output
@course_id	int		

Procedure dbo.DeleteInsCou

This procedure used to delete from the table Instuctor_Course

Parameter	Data Type	Default	Is Output
@course_id	int	-	
@instructor_id	int	-	
@delete_all	int	-	
@year	int	-	

Procedure dbo.DeleteInstructor

The procedure deletes instructor based on the instructor id

Parameter	Data Type	Default	Is Output
@ins_id	int		

Procedure dbo.display_exam

This procedure takes student id then:

Parameter	Data Type	Default	Is Output
@st_id	int		

Result:

Column	Data Type	Nullable
Exam_Type	varchar(20)	X
Course_Name	varchar(20)	X
Allowance_Options	varchar(30)	X
Total_Time	int	X
Exam_Year	int	X

Procedure dbo.editBranch

This Procedure will check if this Branch and the year exists will show a message , If not it will add the Branch and the

Parameter	Data Type	Default	Is Output
@Branch_Id	int		
@new_Branch_Name	varchar(20)		

Procedure dbo.insert_Track

-This Procedure will check if this Track and the year exists will show a message , If not it will add the Track and the ye

Parameter	Data Type	Default	Is Output
@Track_Name	varchar(20)		

Procedure dbo.InsertCourse

The procedure insert new course

Parameter	Data Type	Default	Is Output
@cre_name	varchar(20)		
@mx_degree	int	100	
@mn_degree	int	0	

Procedure dbo.InsertInsCou

this procedure inserts a course for an instructor for a certain year All values are required

Parameter	Data Type	Default	Is Output
@course_id	int		
@instructor_id	int		
@year	int		

Procedure dbo.InsertInstructor

The procedure insert new instructor ALL VALUES ARE REQUIRED

Parameter	Data Type	Default	Is Output
@ins_name	varchar(20)		
@ins_email	varchar(50)		
@ins_salary	int		
@ins_phone	varchar(11)		
@dept_id	int		

Result:

Column	Data Type	Nullable
ERROR	varchar(98)	

Procedure dbo.rank_students

This procedure takes course id and display all student details that enrolled in this course

Parameter	Data Type	Default	Is Output
@crs_id	int		

Result:

Column	Data Type	Nullable
Student_Id	int	
Student_Name	varchar(20)	X
Student_Email	varchar(255)	X
Student_Phone	varchar(11)	X
Course_Name	varchar(20)	X
Grade	int	X
Track_Name	varchar(20)	X
Branch_Name	varchar(20)	X
Intake_Name	varchar(20)	X
Rank	bigint	X

Procedure dbo.select_Question

select_Question SP Name: select_Question Type: Stored Procedure Usage: this sp takes from instructor the number of needed questions or

Parameter	Data Type	Default	Is Output
@needs	varchar(300)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(31)	

Procedure dbo.select_student

select_student SP Name: *select_student* Type: *Stored Procedure* Usage: *this sp takes all for select all students in this course or specific student*

Parameter	Data Type	Default	Is Output
@student_id	varchar(300)		

Procedure dbo.show_quetion

show_question SP Name: show_question Type: Stored Procedure Usage: this sp retrieves all course questions in details as Question ID,

No parameters.

Result:

Column	Data Type	Nullable
Question_Id	int	
Question_Name	varchar(255)	X
Question_Type	varchar(15)	X
Question_Degree	int	X

Procedure dbo.show_Student

show_Student SP Name: show_Student Type: Stored Procedure Usage: shows all students that enrolled in this course to make instructor select all / some of them to do the exam

No parameters.

Result:

Column	Data Type	Nullable
Student_Id	int	
Student_Name	varchar(20)	X

Procedure dbo.take_answer

This procedure takes student id and student answer then checks:

Parameter	Data Type	Default	Is Output
@st_id	int		
@ans	varchar(max)		

Procedure dbo.Track_info

-This Procedure will check if this Track and the year exists will show a message , If not it will add the Track and the

Parameter	Data Type	Default	Is Output
@Track_Id	int		
@Track_Name	varchar(20)		

Procedure dbo.Track_update

This Procedure will check if this Track and the year exists will show a message , If not it will add the Track and the

Parameter	Data Type	Default	Is Output
@Track_Id	int		
@newTrack_Name	varchar(20)		

Procedure dbo.update_instructor_salaries

This procedure takes department number and salary increase amount for this department

Parameter	Data Type	Default	Is Output
@dnum	int		
@amount	int		

Procedure dbo.UpdateCourse

you need to input a valid course id to update the 3 other inputs are not all required only input a value for what you want to update NOTE -- max needs to be more than min degree with at least 5 numbers and both more than 0

Parameter	Data Type	Default	Is Output
@crs_id	int		
@cre_name	varchar(20)	"	
@mx_degree	int	0	
@mn_degree	int	-	

Result:

Column	Data Type	Nullable
ERROR	varchar(56)	

Procedure dbo.UpdateInsCou

This procedure used to update table Instuctor_Course

Parameter	Data Type	Default	Is Output
@course_id	int		
@instructor_id	int		
@new_instructor_id	int	-	
@new_course_id	int	-	
@year	int	-	

Procedure dbo.UpdateInstructor

You need to input a valid instructor id to update all the other inputs are not required only input what you need to update

Parameter	Data Type	Default	Is Output
@ins_id	int		
@ins_name	varchar(20)	'-1'	
@ins_email	varchar(255)	'-1'	
@ins_phone	varchar(11)	'-1'	
@ins_salary	int	-	
@ins_dep	int	-	

Result:

Column	Data Type	Nullable
ERROR	varchar(56)	

Procedure dbo.usp_AddStudent

add students, and define their personal data, intake, branch, and track.

Parameter	Data Type	Default	Is Output
@Student_Name	varchar(20)		
@Student_Email	varchar(255)		
@Student_Phone	varchar(11)		
@Intake_Id	int		
@Branch_Id	int		
@Track_Id	int		

Functions:

Scalar Function dbo.CheckValidEmail

Parameter	Data Type	Default
@email	varchar(255)	

Result:

Data Type	Nullable
bit	X

Scalar Function dbo.CheckValidPhone

Parameter	Data Type	Default
@phone	varchar(11)	

Result:

Data Type	Nullable
bit	X

Inline Table Valued Function dbo.GetStudentGrades

Parameter	Data Type	Default
@StudentID	int	

Result:

Column	Data Type	Nullable
Student_Name	varchar(20)	X
Course_Name	varchar(20)	X
Grade	int	X

Inline Table Valued Function dbo.GetStudentGradesToInstructor

Parameter	Data Type	Default
@InstructorID	int	

Result:

Column	Data Type	Nullable
Student_Name	varchar(20)	X
Course_Name	varchar(20)	X
Grade	int	X
Instructor_Name	varchar(20)	X

Inline Table Valued Function dbo.GetStudentGradestoManager

No parameters.

Result:

Column	Data Type	Nullable
Student_Name	varchar(20)	X
Course_Name	varchar(20)	X
Grade	int	X
Instructor_Name	varchar(20)	X
Department_Name	varchar(20)	X

Scalar Function dbo.text_grade

Parameter	Data Type	Default
@best_answer	varchar(255)	
@student_answer	varchar(255)	
@q_grade	int	

Result:

Data Type	Nullable
float	X