SQL_Project

Tables:

Procedures:

Tables:

Table dbo.Choices *(101 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	Q_id	int			
PK	op1	varchar(50)			
	Num	varchar(50)		X	

Indexes:

PK_Choices *(Primary Key) (Clustered) (0.99% Selectivity)*

Q_id
op1

References:

dbo.Question *(Q_id)*

Used by:

Procedure dbo.get_questions

Num
op1
Q_id

Procedure dbo.Question_Data

Num
op1
Q_id

Table dbo.Clients *(4 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	U_Name	varchar(50)			
	U_Pass	varchar(50)			
	U_Role	varchar(50)			

Indexes:

PK_Users *(Primary Key) (Clustered) (25% Selectivity)*

U_Name

Referenced by:

dbo.Instructor *(Ins_U_N -> U_Name)*

dbo.Student *(St_U_N -> U_Name)*

Used by:

Procedure dbo.change_password

U_Name
U_Pass

Procedure dbo.Check_user

U_Name
U_Pass

U_Role

Procedure dbo.ins_user

U_Name

Procedure dbo.insert_inst

U_Name

Procedure dbo.insert_student

U_Name

Table dbo.Course *(3 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Crs_id	int			
	Crs_name	varchar(50)			
	Crs_duration	int		X	

Indexes:

PK_Course *(Primary Key) (Clustered) (33.33% Selectivity)*

Crs_id

Referenced by:

dbo.Exam *(Crs_id)*

dbo.Question *(Crs_id)*

dbo.Std_Crs_Ins *(Crs_id)*

dbo.Topic *(Crs_id)*

Used by:

Procedure dbo.del_course

Crs_id

Procedure dbo.Generate_Exam

Crs_id
Crs_name

Procedure dbo.ins_course

Crs_id

Procedure dbo.ins_crs_stud

Crs_id
Crs_name

Procedure dbo.ins_exam

Crs_id

Procedure dbo.ins_topic

Crs_id

Procedure dbo.stud_grade

Crs_id

Crs_name

Procedure dbo.update_course

Crs_duration
Crs_id
Crs_name

Procedure dbo.update_topic

Crs_id

Table dbo.Department *(6 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Dept_id	int			
	Dept_name	varchar(50)			
FK	Mang_id	int		X	

Indexes:

PK_Department *(Primary Key) (Clustered) (16.67% Selectivity)*

Dept_id

References:

dbo.Instructor *(Mang_id -> Ins_id)*

Referenced by:

dbo.Instructor *(Dept_id)*

dbo.Student *(Dept_id)*

Used by:

Procedure dbo.del_dept

Dept_id

Procedure dbo.ins_dept

Dept_id

Procedure dbo.insert_inst

Dept_id

Procedure dbo.insert_student

Dept_id

Procedure dbo.update_dept

Dept_id
Dept_name
Mang_id

Procedure dbo.update_inst

Dept_id

Procedure dbo.update_std

Dept_id

Table dbo.Exam *(3 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Ex_id	int			
	Ex_duration	int		X	
FK	Crs_id	int			

Indexes:

> **PK_Exam** *(Primary Key) (Clustered) (33.33% Selectivity)*
>
>> Ex_id

References:

> **dbo.Course** *(Crs_id)*

Referenced by:

> **dbo.Exam_Ques** *(Ex_id)*
>
> **dbo.Std_Ex_Ques** *(Ex_id)*

Used by:

> **Procedure dbo.exam_correction**
>
>> Crs_id
>> Ex_id
>
> **Procedure dbo.Generate_Exam**
>
>> Ex_id

Table dbo.Exam_Ques *(21 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	Ex_id	int			
PK, FK	Q_id	int			

Indexes:

> **PK_Exam_Ques** *(Primary Key) (Clustered) (4.76% Selectivity)*
>
>> Ex_id
>> Q_id

References:

> **dbo.Exam** *(Ex_id)*
>
> **dbo.Question** *(Q_id)*

Used by:

> **Procedure dbo.del_ques**
>
>> Q_id
>
> **Procedure dbo.Ex_Q**
>
>> Ex_id
>> Q_id
>
> **Procedure dbo.Exam_Ans**
>
>> Ex_id

Q_id

Procedure dbo.Generate_Exam

Ex_id

Procedure dbo.get_questions

Ex_id
Q_id

Table dbo.Instructor *(18 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Ins_id	int			
	Ins_name	varchar(50)			
	Ins_salary	int		X	
FK	Dept_id	int			
FK	Ins_U_N	varchar(50)		X	

Indexes:

PK_Instructor *(Primary Key) (Clustered) (5.56% Selectivity)*

Ins_id

References:

dbo.Clients *(Ins_U_N -> U_Name)*

dbo.Department *(Dept_id)*

Referenced by:

dbo.Department *(Mang_id -> Ins_id)*

dbo.Std_Crs_Ins *(Ins_id)*

Used by:

Procedure dbo.Check_user

Ins_id
Ins_name
Ins_U_N

Procedure dbo.del_dept

Dept_id
Ins_id

Procedure dbo.del_inst

Ins_id

Procedure dbo.ins_dept

Ins_id

Procedure dbo.insert_inst

Ins_id

Procedure dbo.update_dept

Ins_id

Procedure dbo.update_inst

> Dept_id
> Ins_id
> Ins_name
> Ins_salary

Table dbo.Question *(40 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Q_id	int			
	Q_type	varchar(50)			
	Q_body	varchar(max)			
	Q_mans	varchar(50)			
FK	Crs_id	int			
	Q_grade	int			

Indexes:

> **PK_Question** *(Primary Key) (Clustered) (2.5% Selectivity)*
>
> > Q_id

References:

> **dbo.Course** *(Crs_id)*

Referenced by:

> **dbo.Choices** *(Q_id)*
>
> **dbo.Exam_Ques** *(Q_id)*
>
> **dbo.Std_Ex_Ques** *(Q_id)*

Used by:

> **Procedure dbo.del_ques**
>
> > Q_id
>
> **Procedure dbo.Ex_Q**
>
> > Q_body
> > Q_id
> > Q_type
>
> **Procedure dbo.Ex_Std_1**
>
> > Q_body
> > Q_id
> > Q_type
>
> **Procedure dbo.exam_correction**
>
> > Q_id
> > Q_mans
>
> **Procedure dbo.Generate_Exam**
>
> > Crs_id
> > Q_id
> > Q_type
>
> **Procedure dbo.get_questions**
>
> > Q_body

Q_id

Procedure dbo.Question_Data

Crs_id
Q_body
Q_grade
Q_id

Table dbo.Std_Crs_Ins *(4 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	St_id	int			
PK, FK	Crs_id	int			
PK, FK	Ins_id	int			
	grad	int		X	

Indexes:

PK_Std_Crs_Ins *(Primary Key) (Clustered) (25% Selectivity)*

St_id
Crs_id
Ins_id

References:

dbo.Course *(Crs_id)*

dbo.Instructor *(Ins_id)*

dbo.Student *(St_id)*

Used by:

Procedure dbo.del_course

Crs_id

Procedure dbo.del_inst

Ins_id

Procedure dbo.exam_correction

Crs_id
grad
St_id

Procedure dbo.ins_crs_stud

Crs_id
Ins_id
St_id

Procedure dbo.stud_grade

Crs_id
grad
St_id

Table dbo.Std_Ex_Ques *(11 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	St_id	int			
PK, FK	Ex_id	int			

PK, FK	Q_id	int			
	St_ans	varchar(50)		X	
	Ex_date	date		X	getdate()

Indexes:

PK_Std_Ex_Ques *(Primary Key) (Clustered) (9.09% Selectivity)*

St_id
Ex_id
Q_id

References:

dbo.Exam *(Ex_id)*

dbo.Question *(Q_id)*

dbo.Student *(St_id)*

Used by:

Procedure dbo.del_ques

Q_id

Procedure dbo.Ex_Std_1

Ex_id
Q_id
St_ans
St_id

Procedure dbo.Exam_Ans

Ex_id
Q_id
St_ans
St_id

Procedure dbo.exam_correction

Ex_id
Q_id
St_ans

Table dbo.Student *(24 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	St_id	int			
	St_name	varchar(50)			
	St_age	int		X	
FK	Dept_id	int			
FK	St_U_N	varchar(50)		X	

Indexes:

PK_Student *(Primary Key) (Clustered) (4.17% Selectivity)*

St_id

References:

dbo.Clients *(St_U_N -> U_Name)*

dbo.Department *(Dept_id)*

Referenced by:

dbo.Std_Crs_Ins *(St_id)*

dbo.Std_Ex_Ques *(St_id)*

Used by:

Procedure dbo.Check_user

St_id
St_name
St_U_N

Procedure dbo.del_dept

Dept_id
St_id

Procedure dbo.del_student

St_id

Procedure dbo.Exam_Ans

St_id
St_name

Procedure dbo.exam_correction

St_id
St_name

Procedure dbo.insert_student

St_id

Procedure dbo.stud_dept

Dept_id
St_age
St_id
St_name

Procedure dbo.update_std

Dept_id
St_age
St_id
St_name

Table dbo.Topic *(3 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	Top_id	int			
	Top_name	varchar(50)			
FK	Crs_id	int			

Indexes:

PK_Topic *(Primary Key) (Clustered) (33.33% Selectivity)*

Top_id

References:

dbo.Course *(Crs_id)*

Used by:

Procedure dbo.Crs_id_topic

Crs_id
Top_id
Top_name

Procedure dbo.del_topic

Top_id

Procedure dbo.ins_topic

Top_id

Procedure dbo.update_topic

Crs_id
Top_id
Top_name

Procedures:

Procedure dbo.change_password

Parameter	Data Type	Default	Is Output
@UName	varchar(50)		
@OldPass	varchar(50)		
@NewPass	varchar(50)		

Uses:

> **Table dbo.Clients**
>
>> U_Name
>> U_Pass

Procedure dbo.Check_user

Parameter	Data Type	Default	Is Output
@User_Name	varchar(50)		
@Password	varchar(50)		

Result:

Column	Data Type	Nullable
St_id	int	
(No column name)	varchar(50)	X
St_name	varchar(50)	

Uses:

> **Table dbo.Clients**
>
>> U_Name
>> U_Pass
>> U_Role
>
> **Table dbo.Instructor**
>
>> Ins_id
>> Ins_name
>> Ins_U_N
>
> **Table dbo.Student**
>
>> St_id
>> St_name
>> St_U_N

Procedure dbo.Crs_id_topic

Parameter	Data Type	Default	Is Output
@Crs_id	int		

Result:

Column	Data Type	Nullable
Top_id	int	
Top_name	varchar(50)	

Uses:

    Table dbo.Topic

        Crs_id
        Top_id
        Top_name

Procedure dbo.del_course

Parameter	Data Type	Default	Is Output
@Crs_id	int		

Uses:

    Table dbo.Course

        Crs_id

    Table dbo.Std_Crs_Ins

        Crs_id

Procedure dbo.del_dept

Parameter	Data Type	Default	Is Output
@Dept_id	int		

Uses:

    Table dbo.Department

        Dept_id

    Table dbo.Instructor

        Dept_id
        Ins_id

    Table dbo.Student

        Dept_id
        St_id

Procedure dbo.del_inst

Parameter	Data Type	Default	Is Output
@Ins_id	int		

Uses:

    Table dbo.Instructor

        Ins_id

    Table dbo.Std_Crs_Ins

        Ins_id

Procedure dbo.del_ques

Parameter	Data Type	Default	Is Output

@Q_id	int		

Uses:

> **Table dbo.Exam_Ques**
>
>> Q_id
>
> **Table dbo.Question**
>
>> Q_id
>
> **Table dbo.Std_Ex_Ques**
>
>> Q_id

Procedure dbo.del_student

Parameter	Data Type	Default	Is Output
@St_id	int		

Uses:

> **Table dbo.Student**
>
>> St_id

Procedure dbo.del_topic

Parameter	Data Type	Default	Is Output
@Top_id	int		

Uses:

> **Table dbo.Topic**
>
>> Top_id

Procedure dbo.Ex_Q

Parameter	Data Type	Default	Is Output
@Ex_id	int		

Result:

Column	Data Type	Nullable
Q_id	int	
Q_body	varchar(max)	
Q_type	varchar(50)	

Uses:

> **Table dbo.Exam_Ques**
>
>> Ex_id
>> Q_id
>
> **Table dbo.Question**
>
>> Q_body
>> Q_id

Q_type

Procedure dbo.Ex_Std_1

Parameter	Data Type	Default	Is Output
@Ex_id	int		
@Std_id	int		

Result:

Column	Data Type	Nullable
Q_id	int	
Q_body	varchar(max)	
Q_type	varchar(50)	
St_ans	varchar(50)	X

Uses:

Table dbo.Question

Q_body
Q_id
Q_type

Table dbo.Std_Ex_Ques

Ex_id
Q_id
St_ans
St_id

Procedure dbo.Exam_Ans

Parameter	Data Type	Default	Is Output
@St_name	varchar(50)		
@Ex_id	int		
@ans1	varchar(50)		
@ans2	varchar(50)		
@ans3	varchar(50)		
@ans4	varchar(50)		
@ans5	varchar(50)		
@ans6	varchar(50)		
@ans7	varchar(50)		
@ans8	varchar(50)		
@ans9	varchar(50)		
@ans10	varchar(50)		

Uses:

Table dbo.Exam_Ques

Ex_id
Q_id

Table dbo.Std_Ex_Ques

Ex_id
Q_id
St_ans
St_id

Table dbo.Student

St_id
St_name

Procedure dbo.exam_correction

Parameter	Data Type	Default	Is Output
@St_name	varchar(50)		
@Ex_id	int		

Uses:

Table dbo.Exam

Crs_id
Ex_id

Table dbo.Question

Q_id
Q_mans

Table dbo.Std_Crs_Ins

Crs_id
grad
St_id

Table dbo.Std_Ex_Ques

Ex_id
Q_id
St_ans

Table dbo.Student

St_id
St_name

Procedure dbo.Generate_Exam

Parameter	Data Type	Default	Is Output
@Crs_Name	varchar(50)		
@MSQ	int		
@TF	int		
@Ex_id	int		
@Ex_duration	int		

Uses:

Table dbo.Course

Crs_id
Crs_name

Table dbo.Exam

Ex_id

Table dbo.Exam_Ques

Ex_id

Table dbo.Question

      Crs_id
      Q_id
      Q_type

Procedure dbo.get_questions

Parameter	Data Type	Default	Is Output
@Ex_id	int		

Result:

Column	Data Type	Nullable
Q_body	varchar(max)	
a	varchar(50)	X
b	varchar(50)	X
c	varchar(50)	X

Uses:

Table dbo.Choices

      Num
      op1
      Q_id

Table dbo.Exam_Ques

      Ex_id
      Q_id

Table dbo.Question

      Q_body
      Q_id

Procedure dbo.ins_course

Parameter	Data Type	Default	Is Output
@Crs_id	int		
@Crs_name	varchar(50)		
@Crs_duration	int		

Uses:

Table dbo.Course

      Crs_id

Procedure dbo.ins_crs_stud

Parameter	Data Type	Default	Is Output
@Ins_id	int		

Result:

Column	Data Type	Nullable
Crs_name	varchar(50)	
number of students per course	int	X

Uses:

    Table dbo.Course

        Crs_id
        Crs_name

    Table dbo.Std_Crs_Ins

        Crs_id
        Ins_id
        St_id

Procedure dbo.ins_dept

Parameter	Data Type	Default	Is Output
@Dept_id	int		
@Dept_name	varchar(50)		
@Mang_id	int		

Uses:

    Table dbo.Department

        Dept_id

    Table dbo.Instructor

        Ins_id

Procedure dbo.ins_exam

Parameter	Data Type	Default	Is Output
@Ex_id	int		
@Ex_duration	int		
@Crs_id	int		

Uses:

    Table dbo.Course

        Crs_id

Procedure dbo.ins_topic

Parameter	Data Type	Default	Is Output
@Top_id	int		
@Top_name	varchar(50)		
@Crs_id	int		

Uses:

    Table dbo.Course

        Crs_id

    Table dbo.Topic

        Top_id

Procedure dbo.ins_user

Parameter	Data Type	Default	Is Output
@U_Name	varchar(50)		
@U_Pass	varchar(50)		
@U_Role	varchar(50)		

Uses:

> **Table dbo.Clients**
>
> > U_Name

Procedure dbo.insert_inst

Parameter	Data Type	Default	Is Output
@Ins_id	int		
@Ins_name	varchar(50)		
@Ins_salary	int		
@Dept_id	int		
@Ins_U_N	varchar(50)		

Uses:

> **Table dbo.Clients**
>
> > U_Name
>
> **Table dbo.Department**
>
> > Dept_id
>
> **Table dbo.Instructor**
>
> > Ins_id

Procedure dbo.insert_student

Parameter	Data Type	Default	Is Output
@St_id	int		
@St_name	varchar(50)		
@St_age	int		
@Dept_id	int		
@St_U_N	varchar(50)		

Uses:

> **Table dbo.Clients**
>
> > U_Name
>
> **Table dbo.Department**
>
> > Dept_id
>
> **Table dbo.Student**
>
> > St_id

Procedure dbo.Question_Data

Parameter	Data Type	Default	Is Output

@Crs_id	int		

Result:

Column	Data Type	Nullable
Q_id	int	
Q_body	varchar(max)	
Q_grade	int	
a	varchar(50)	X
b	varchar(50)	X
c	varchar(50)	X

Uses:

Table dbo.Choices

Num
op1
Q_id

Table dbo.Question

Crs_id
Q_body
Q_grade
Q_id

Procedure dbo.stud_dept

Parameter	Data Type	Default	Is Output
@Dept_id	int		

Result:

Column	Data Type	Nullable
St_id	int	
St_name	varchar(50)	
St_age	int	X

Uses:

Table dbo.Student

Dept_id
St_age
St_id
St_name

Procedure dbo.stud_grade

Parameter	Data Type	Default	Is Output
@St_id	int		

Result:

Column	Data Type	Nullable
student's grade	int	X
Crs_name	varchar(50)	

Uses:

Table dbo.Course

Crs_id
Crs_name

Table dbo.Std_Crs_Ins

Crs_id
grad
St_id

Procedure dbo.update_course

Parameter	Data Type	Default	Is Output
@Crs_id	int		
@Crs_name	varchar(50)		
@Crs_duration	int		

Uses:

Table dbo.Course

Crs_duration
Crs_id
Crs_name

Procedure dbo.update_dept

Parameter	Data Type	Default	Is Output
@Dept_id	int		
@Dept_name	varchar(50)		
@Mang_id	int		

Uses:

Table dbo.Department

Dept_id
Dept_name
Mang_id

Table dbo.Instructor

Ins_id

Procedure dbo.update_inst

Parameter	Data Type	Default	Is Output
@Ins_id	int		
@Ins_name	varchar(50)		
@Ins_salary	int		
@Dept_id	int		

Uses:

Table dbo.Department

Dept_id

Table dbo.Instructor

       Dept_id
       Ins_id
       Ins_name
       Ins_salary

Procedure dbo.update_std

Parameter	Data Type	Default	Is Output
@St_id	int		
@St_name	varchar(50)		
@St_age	int		
@Dept_id	int		

Uses:

Table dbo.Department

       Dept_id

Table dbo.Student

       Dept_id
       St_age
       St_id
       St_name

Procedure dbo.update_topic

Parameter	Data Type	Default	Is Output
@Top_id	int		
@Crs_id	int		
@Top_name	varchar(50)		

Uses:

Table dbo.Course

       Crs_id

Table dbo.Topic

       Crs_id
       Top_id
       Top_name