examination

Tables:

Procedures:

Tables:

Table dbo.choices *(108 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	ques_id	int			
PK	choice_num	varchar(10)			
	choice_desc	varchar(80)		X	

Indexes:

> **PK_choices** *(Primary Key) (Clustered)*
>
>> ques_id
>> choice_num

References:

> **dbo.question** *(ques_id)*

Used by:

> **Procedure dbo.INSQuestion**
>
> **Procedure dbo.questDelete**
>
> **Procedure dbo.select_choice**
>
> **Procedure dbo.selectqueChoices**
>
> **Procedure dbo.updatechoice**
>
> **Procedure dbo.updateQuestion**

Table dbo.course *(4 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	crs_id	int			
	crs_name	varchar(20)		X	
	duration	int		X	
FK	ins_id	int		X	

Indexes:

> **PK_course** *(Primary Key) (Clustered)*
>
>> crs_id

References:

> **dbo.instructor** *(ins_id)*

Referenced by:

> **dbo.course_topic** *(crs_id)*
>
> **dbo.dept_course** *(crs_id)*
>
> **dbo.exam** *(crs_id)*
>
> **dbo.question** *(crs_id)*
>
> **dbo.student_grade** *(crs_id)*

Used by:

> **Procedure dbo.c_Topic**
>
> **Procedure dbo.crs_delete**
>
> **Procedure dbo.crs_insert**
>
> **Procedure dbo.crs_select**
>
> **Procedure dbo.crs_update**
>
> **Procedure dbo.exam_generation**
>
> **Procedure dbo.ins_crs**
>
> **Procedure dbo.insert_student_course**
>
> **Procedure dbo.INSQuestion**
>
> **Procedure dbo.st_grad**
>
> **Procedure dbo.topic_insert**
>
> **Procedure dbo.update_course_student**
>
> **Procedure dbo.updatequesCourse**
>
> **Procedure dbo.updateQuestion**

Table dbo.course_topic *(6 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	crs_id	int			
PK	topic	varchar(30)			

Indexes:

> **PK_course_topic** *(Primary Key) (Clustered)*
>
> > crs_id
> > topic

References:

> **dbo.course** *(crs_id)*

Used by:

> **Procedure dbo.c_Topic**
>
> **Procedure dbo.topic_delete**
>
> **Procedure dbo.topic_insert**
>
> **Procedure dbo.topic_select**
>
> **Procedure dbo.topic_update**

Table dbo.department *(2 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	dept_id	int			
	dept_name	varchar(10)		X	
FK	mgr_id	int		X	

Indexes:

> **PK_department** *(Primary Key) (Clustered)*
>
>> dept_id

References:

> **dbo.instructor** *(mgr_id -> ins_id)*

Referenced by:

> **dbo.dept_course** *(dept_id)*
>
> **dbo.instructor** *(dept_id)*
>
> **dbo.student** *(dept_id)*

Used by:

> **Procedure dbo.crs_insert**
>
> **Procedure dbo.crs_update**
>
> **Procedure dbo.dept_delete**
>
> **Procedure dbo.dept_insert**
>
> **Procedure dbo.dept_select**
>
> **Procedure dbo.dept_update**
>
> **Procedure dbo.insertIns**
>
> **Procedure dbo.std_insert**
>
> **Procedure dbo.updateIns**

Table dbo.dept_course *(4 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	dept_id	int			
PK, FK	crs_id	int			

Indexes:

> **PK_dept_course** *(Primary Key) (Clustered)*
>
>> dept_id
>> crs_id

References:

> **dbo.course** *(crs_id)*
>
> **dbo.department** *(dept_id)*

Used by:

> **Procedure dbo.crs_delete**
>
> **Procedure dbo.crs_insert**
>
> **Procedure dbo.crs_update**

Table dbo.exam *(4 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	exam_id	int	X		
FK	crs_id	int		X	
	duration	int		X	120

Indexes:

> **PK_exam** *(Primary Key) (Clustered)*
>
>> exam_id

References:

> **dbo.course** *(crs_id)*

Referenced by:

> **dbo.question_exam** *(exam_id)*
>
> **dbo.st_exam_question** *(exam_id)*

Used by:

> **Procedure dbo.exam_correction**
>
> **Procedure dbo.exam_generation**
>
> **Procedure dbo.st_answer**

Table dbo.instructor *(3 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	ins_id	int			
	ins_name	varchar(20)		X	
	salary	int		X	
	address	varchar(30)		X	
FK	dept_id	int		X	

Indexes:

> **PK_instructor** *(Primary Key) (Clustered)*
>
>> ins_id

References:

> **dbo.department** *(dept_id)*

Referenced by:

> **dbo.course** *(ins_id)*
>
> **dbo.department** *(mgr_id -> ins_id)*

Used by:

> **Procedure dbo.crs_insert**
>
> **Procedure dbo.crs_update**
>
> **Procedure dbo.deleteIns**
>
> **Procedure dbo.dept_insert**

Table dbo.question *(57 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	ques_id	int	X		
	type	varchar(20)		X	
	description	varchar(100)		X	
	model_answer	varchar(1)		X	
	mark	int		X	
FK	crs_id	int		X	

Indexes:

    PK_question *(Primary Key) (Clustered)*

        ques_id

References:

    dbo.course *(crs_id)*

Referenced by:

    dbo.choices *(ques_id)*

    dbo.question_exam *(ques_id)*

    dbo.st_exam_question *(ques_id)*

Used by:

    Procedure dbo.exam_correction

    Procedure dbo.exam_generation

    Procedure dbo.exam_question

    Procedure dbo.INSQuestion

    Procedure dbo.questDelete

    Procedure dbo.select_choice

    Procedure dbo.select_que

    Procedure dbo.selectqueChoices

    Procedure dbo.updateAnswer

    Procedure dbo.updateMark

    Procedure dbo.updatequesCourse

    Procedure dbo.updateQuestion

Table dbo.question_exam *(40 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	exam_id	int			

PK, FK	ques_id	int			

Indexes:

    PK_question_exam *(Primary Key) (Clustered)*

        exam_id
        ques_id

References:

    dbo.exam *(exam_id)*

    dbo.question *(ques_id)*

Used by:

    Procedure dbo.exam_generation

    Procedure dbo.exam_question

    Procedure dbo.questDelete

    Procedure dbo.st_answer

Table dbo.st_exam_question *(20 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	st_id	int			
PK, FK	exam_id	int			
PK, FK	ques_id	int			
	st_answer	varchar(10)		X	

Indexes:

    PK_st_exam_question *(Primary Key) (Clustered)*

        st_id
        exam_id
        ques_id

References:

    dbo.exam *(exam_id)*

    dbo.question *(ques_id)*

    dbo.student *(st_id)*

Used by:

    Procedure dbo.exam_correction

    Procedure dbo.st_answer

    Procedure dbo.student_answers

Table dbo.student *(3 rows)*

	Column	Data Type	Identity	Nullable	Default
PK	st_id	int			
	st_fname	varchar(20)		X	
	st_lname	varchar(20)		X	
	address	varchar(30)		X	
	age	int		X	

	Column	Data Type	Identity	Nullable	Default
FK	dept_id	int		X	

Indexes:

> **PK_student** *(Primary Key) (Clustered)*
>
>> st_id

References:

> **dbo.department** *(dept_id)*

Referenced by:

> **dbo.st_exam_question** *(st_id)*
>
> **dbo.student_grade** *(st_id)*

Used by:

> **Procedure dbo.deptname**
>
> **Procedure dbo.exam_correction**
>
> **Procedure dbo.insert_student_course**
>
> **Procedure dbo.select_st_course**
>
> **Procedure dbo.st_answer**
>
> **Procedure dbo.std_delete**
>
> **Procedure dbo.std_insert**
>
> **Procedure dbo.std_select**
>
> **Procedure dbo.std_update**
>
> **Procedure dbo.update_course_student**

Table dbo.student_grade *(3 rows)*

	Column	Data Type	Identity	Nullable	Default
PK, FK	st_id	int			
PK, FK	crs_id	int			
	grade	int		X	

Indexes:

> **PK_student_grade** *(Primary Key) (Clustered)*
>
>> st_id
>> crs_id

References:

> **dbo.course** *(crs_id)*
>
> **dbo.student** *(st_id)*

Used by:

> **Procedure dbo.exam_correction**
>
> **Procedure dbo.ins_crs**

Procedure dbo.insert_student_course

Procedure dbo.select_st_course

Procedure dbo.st_answer

Procedure dbo.st_grad

Procedure dbo.update_course_student

Procedures:

Procedure dbo.c_Topic

Parameter	Data Type	Default	Is Output
@crs_id	int		

Result:

Column	Data Type	Nullable
topic	varchar(30)	

Uses:

> **Table dbo.course**
>
> **Table dbo.course_topic**

Procedure dbo.crs_delete

Parameter	Data Type	Default	Is Output
@id	int		

Result:

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

Uses:

> **Table dbo.course**
>
> **Table dbo.dept_course**

Procedure dbo.crs_insert

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(10)		
@hours	int		
@ins_id	int		
@dept_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(21)	

Uses:

> **Table dbo.course**
>
> **Table dbo.department**
>
> **Table dbo.dept_course**
>
> **Table dbo.instructor**

Procedure dbo.crs_select

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
crs_id	int	
crs_name	varchar(20)	X
duration	int	X
ins_id	int	X

Uses:

> **Table dbo.course**

Procedure dbo.crs_update

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(20)		
@hours	int		
@ins_id	int		
@dept_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(21)	

Uses:

> **Table dbo.course**
>
> **Table dbo.department**
>
> **Table dbo.dept_course**
>
> **Table dbo.instructor**

Procedure dbo.deleteIns

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(33)	

Uses:

> **Table dbo.instructor**

Procedure dbo.dept_delete

Parameter	Data Type	Default	Is Output
@id	int		

Uses:

> Table dbo.department

Procedure dbo.dept_insert

Parameter	Data Type	Default	Is Output
@dept_id	int		
@dept_name	varchar(100)		
@mangr_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(18)	

Uses:

> Table dbo.department
>
> Table dbo.instructor

Procedure dbo.dept_select

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
dept_id	int	
dept_name	varchar(10)	X
mgr_id	int	X

Uses:

> Table dbo.department

Procedure dbo.dept_update

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(20)		
@mgr_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(21)	

Uses:

> Table dbo.department

Procedure dbo.deptname

Parameter	Data Type	Default	Is Output
@deptNum	int		

Result:

Column	Data Type	Nullable
st_id	int	
st_fname	varchar(20)	X
st_lname	varchar(20)	X
address	varchar(30)	X
age	int	X
dept_id	int	X

Uses:

      Table dbo.student

Procedure dbo.exam_correction

Parameter	Data Type	Default	Is Output
@exam_id	int		
@st_name	varchar(20)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(13)	

Uses:

      Table dbo.exam

      Table dbo.question

      Table dbo.st_exam_question

      Table dbo.student

      Table dbo.student_grade

Procedure dbo.exam_generation

Parameter	Data Type	Default	Is Output
@crs_name	varchar(20)		
@tf	int		
@mcq	int		
@duration	int		

Uses:

      Table dbo.course

      Table dbo.exam

      Table dbo.question

      Table dbo.question_exam

Procedure dbo.exam_question

Parameter	Data Type	Default	Is Output
@exam_id	int		

Result:

Column	Data Type	Nullable
exam_id	int	
ques_id	int	
type	varchar(20)	X
description	varchar(100)	X

Uses:

> **Table dbo.question**
>
> **Table dbo.question_exam**

Procedure dbo.ins_crs

Parameter	Data Type	Default	Is Output
@ins_id	int		

Result:

Column	Data Type	Nullable
crs_name	varchar(20)	X
Std_per_Course	int	X

Uses:

> **Table dbo.course**
>
> **Table dbo.student_grade**

Procedure dbo.insert_student_course

Parameter	Data Type	Default	Is Output
@stid	int		
@crid	int		

Result:

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

Uses:

> **Table dbo.course**
>
> **Table dbo.student**
>
> **Table dbo.student_grade**

Procedure dbo.insertIns

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(20)		

@salary	int		
@add	varchar(30)		
@did	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(21)	

Uses:

> **Table dbo.department**
>
> **Table dbo.instructor**

Procedure dbo.INSQuestion

Parameter	Data Type	Default	Is Output
@type	varchar(20)		
@description	varchar(50)		
@model	varchar(1)		
@mark	int		
@cid	int		
@chdesc1	varchar(50)	null	
@chdesc2	varchar(50)	null	
@chdesc3	varchar(50)	null	
@chdesc4	varchar(50)	null	

Result:

Column	Data Type	Nullable
(No column name)	varchar(12)	

Uses:

> **Table dbo.choices**
>
> **Table dbo.course**
>
> **Table dbo.question**

Procedure dbo.questDelete

Parameter	Data Type	Default	Is Output
@quid	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(29)	

Uses:

> **Table dbo.choices**
>
> **Table dbo.question**
>
> **Table dbo.question_exam**

Procedure dbo.select_choice

Parameter	Data Type	Default	Is Output
@qid	int		

Result:

Column	Data Type	Nullable
choice_num	varchar(10)	
choice_desc	varchar(80)	X

Uses:

Table dbo.choices

Table dbo.question

Procedure dbo.select_que

Parameter	Data Type	Default	Is Output
@qid	int		

Result:

Column	Data Type	Nullable
description	varchar(100)	X
model_answer	varchar(1)	X

Uses:

Table dbo.question

Procedure dbo.select_st_course

Parameter	Data Type	Default	Is Output
@stid	int		

Result:

Column	Data Type	Nullable
st_id	int	
crs_id	int	
grade	int	X

Uses:

Table dbo.student

Table dbo.student_grade

Procedure dbo.selectIns

Parameter	Data Type	Default	Is Output
@name	varchar(50)		

Result:

Column	Data Type	Nullable

ins_id	int	
ins_name	varchar(20)	X
address	varchar(30)	X
dept_id	int	X

Uses:

> **Table dbo.instructor**

Procedure dbo.selectInsWithId

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
ins_id	int	
ins_name	varchar(20)	X
address	varchar(30)	X
dept_id	int	X

Uses:

> **Table dbo.instructor**

Procedure dbo.selectqueChoices

Parameter	Data Type	Default	Is Output
@qid	int		

Result:

Column	Data Type	Nullable
type	varchar(20)	X
description	varchar(100)	X
model_answer	varchar(1)	X
a	varchar(80)	X
b	varchar(80)	X
c	varchar(80)	X
d	varchar(80)	X

Uses:

> **Table dbo.choices**
>
> **Table dbo.question**

Procedure dbo.st_answer

Parameter	Data Type	Default	Is Output
@exid	int		
@stname	varchar(50)		
@ans1	varchar(1)		
@ans2	varchar(1)		
@ans3	varchar(1)		
@ans4	varchar(1)		

@ans5	varchar(1)		
@ans6	varchar(1)		
@ans7	varchar(1)		
@ans8	varchar(1)		
@ans9	varchar(1)		
@ans10	varchar(1)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(18)	

Uses:

> **Table dbo.exam**
>
> **Table dbo.question_exam**
>
> **Table dbo.st_exam_question**
>
> **Table dbo.student**
>
> **Table dbo.student_grade**

Procedure dbo.st_grad

Parameter	Data Type	Default	Is Output
@std_id	int		

Result:

Column	Data Type	Nullable
grade	int	X
crs_name	varchar(20)	X

Uses:

> **Table dbo.course**
>
> **Table dbo.student_grade**

Procedure dbo.std_delete

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(18)	

Uses:

> **Table dbo.student**

Procedure dbo.std_insert

Parameter	Data Type	Default	Is Output
@id	int		

@fname	varchar(20)		
@lname	varchar(20)		
@add	varchar(30)		
@age	int		
@dept_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(21)	

Uses:

Table dbo.department

Table dbo.student

Procedure dbo.std_select

Parameter	Data Type	Default	Is Output
@id	int		

Result:

Column	Data Type	Nullable
st_id	int	
st_fname	varchar(20)	X
st_lname	varchar(20)	X
address	varchar(30)	X
age	int	X
dept_id	int	X

Uses:

Table dbo.student

Procedure dbo.std_update

Parameter	Data Type	Default	Is Output
@id	int		
@fname	varchar(20)		
@lname	varchar(20)		
@add	varchar(30)		
@age	int		
@dept_id	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(18)	

Uses:

Table dbo.student

Procedure dbo.student_answers

Parameter	Data Type	Default	Is Output

@exam_id	int		
@st_id	int		

Result:

Column	Data Type	Nullable
st_id	int	
exam_id	int	
ques_id	int	
st_answer	varchar(10)	X

Uses:

Table dbo.st_exam_question

Procedure dbo.topic_delete

Parameter	Data Type	Default	Is Output
@crs_id	int		
@topic_name	varchar(20)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(18)	

Uses:

Table dbo.course_topic

Procedure dbo.topic_insert

Parameter	Data Type	Default	Is Output
@crs_id	int		
@topic_name	varchar(20)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(37)	

Uses:

Table dbo.course

Table dbo.course_topic

Procedure dbo.topic_select

Parameter	Data Type	Default	Is Output
@crs_id	int		

Result:

Column	Data Type	Nullable
crs_id	int	
topic	varchar(30)	

Uses:

> Table dbo.course_topic

Procedure dbo.topic_update

Parameter	Data Type	Default	Is Output
@crs_id	int		
@old_topic_name	varchar(20)		
@new_topic_name	varchar(20)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(44)	

Uses:

> Table dbo.course_topic

Procedure dbo.update_course_student

Parameter	Data Type	Default	Is Output
@stid	int		
@crsid	int		

Result:

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

Uses:

> Table dbo.course

> Table dbo.student

> Table dbo.student_grade

Procedure dbo.updateAnswer

Parameter	Data Type	Default	Is Output
@qid	int		
@answer	varchar(1)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(29)	

Uses:

> Table dbo.question

Procedure dbo.updatechoice

Parameter	Data Type	Default	Is Output

@qid	int		
@choice	varchar(10)		
@text	varchar(50)		

Result:

Column	Data Type	Nullable
(No column name)	varchar(14)	

Uses:

      Table dbo.choices

Procedure dbo.updateIns

Parameter	Data Type	Default	Is Output
@id	int		
@name	varchar(30)		
@salary	int		
@add	varchar(30)		
@did	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(21)	

Uses:

      Table dbo.department

      Table dbo.instructor

Procedure dbo.updateMark

Parameter	Data Type	Default	Is Output
@qid	int		
@mark	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(29)	

Uses:

      Table dbo.question

Procedure dbo.updatequesCourse

Parameter	Data Type	Default	Is Output
@qid	int		
@cid	int		

Result:

Column	Data Type	Nullable
(No column name)	varchar(27)	

Uses:

       Table dbo.course

       Table dbo.question

Procedure dbo.updateQuestion

Parameter	Data Type	Default	Is Output
@qid	int		
@type	varchar(20)		
@description	varchar(50)		
@model	varchar(1)		
@mark	int		
@cid	int		
@chdesc1	varchar(50)	null	
@chdesc2	varchar(50)	null	
@chdesc3	varchar(50)	null	
@chdesc4	varchar(50)	null	

Result:

Column	Data Type	Nullable
(No column name)	varchar(12)	

Uses:

       Table dbo.choices

       Table dbo.course

       Table dbo.question