

Generated using SQL Data Dictionary demo version.

## **ExamProject**

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## **Tables:**

**Table dbo.Course** (2 rows)

|           | Column      | Data Type | Identity | Nullable | Default |
|-----------|-------------|-----------|----------|----------|---------|
| <b>PK</b> | course_id   | int       |          |          |         |
|           | course_name | nchar(20) |          | X        |         |

### **Indexes:**

**PK\_Course** (Primary Key) (Clustered)

course\_id

### **Referenced by:**

**dbo.Exam** (course\_id)

**dbo.Inst\_course** (course\_id)

**dbo.Question** (course\_id)

**dbo.Stud\_course** (course\_id)

**dbo.Topic** (course\_id)

### **Used by:**

**Procedure dbo.delete\_crs**

**Procedure dbo.get\_all\_courses**

**Procedure dbo.get\_course**

**Procedure dbo.get\_course\_topics**

**Procedure dbo.insert\_course**

**Procedure dbo.insert\_inst\_courses**

**Procedure dbo.insert\_stud\_courses**

**Procedure dbo.update\_course**

**Table dbo.Department** (4 rows)

|           | Column    | Data Type | Identity | Nullable | Default |
|-----------|-----------|-----------|----------|----------|---------|
| <b>PK</b> | dept_id   | int       |          |          |         |
|           | dept_name | nchar(50) |          | X        |         |

### **Indexes:**

**PK\_Department** (Primary Key) (Clustered)

dept\_id

### **Referenced by:**

**dbo.Instructor** (dept\_id)

**dbo.Student** (dept\_id)

### **Used by:**

**Procedure dbo.delete\_dept**

Procedure **dbo.get\_all\_departments**

Procedure **dbo.get\_dept**

Procedure **dbo.insert\_dept**

Procedure **dbo.update\_dept**

**Table dbo.Exam** (0 rows)

|           | Column    | Data Type | Identity | Nullable | Default |
|-----------|-----------|-----------|----------|----------|---------|
| <b>PK</b> | exam_id   | int       |          |          |         |
|           | duration  | time      |          | X        |         |
| <b>FK</b> | course_id | int       |          |          |         |

**Indexes:**

**PK\_Exam** (Primary Key) (Clustered)

exam\_id

**References:**

**dbo.Course** (course\_id)

**Referenced by:**

**dbo.Q\_ex\_stud** (ex\_id -> exam\_id)

**Used by:**

Procedure **dbo.delete\_crs**

Procedure **dbo.delete\_exam**

Procedure **dbo.generateExam**

Procedure **dbo.get\_all\_exams**

Procedure **dbo.get\_exam**

Procedure **dbo.insert\_exam**

Procedure **dbo.insert\_student\_answer**

Procedure **dbo.update\_exam**

**Table dbo.Exam\_choices** (0 rows)

|               | Column  | Data Type     | Identity | Nullable | Default |
|---------------|---------|---------------|----------|----------|---------|
| <b>PK, FK</b> | Q_id    | int           |          |          |         |
| <b>PK</b>     | choices | nvarchar(100) |          |          |         |

**Indexes:**

**PK\_Exam\_choices** (Primary Key) (Clustered)

Q\_id  
choices

**References:**

**dbo.Question** (Q\_id)

**Used by:**

Procedure **dbo.delete\_crs\_questions**

Procedure **dbo.delete\_exam\_choices**

Procedure **dbo.delete\_Question**

Procedure **dbo.get\_all\_choices**

Procedure **dbo.get\_question\_choices**

Procedure **dbo.insert\_exam\_choices**

Procedure **dbo.update\_question\_choices**

**Table dbo.Inst\_course** (0 rows)

|               | Column    | Data Type | Identity | Nullable | Default |
|---------------|-----------|-----------|----------|----------|---------|
| <b>PK, FK</b> | course_id | int       |          |          |         |
| <b>PK, FK</b> | inst_id   | int       |          |          |         |

**Indexes:**

**PK\_Inst\_course** (Primary Key) (Clustered)

course\_id  
inst\_id

**References:**

**dbo.Course** (course\_id)

**dbo.Instructor** (inst\_id)

**Used by:**

Procedure **dbo.delete\_crs**

Procedure **dbo.delete\_instructor**

Procedure **dbo.get\_instructor\_courses**

Procedure **dbo.insert\_inst\_courses**

Procedure **dbo.update\_instructor\_courses**

**Table dbo.Instructor** (3 rows)

|           | Column    | Data Type | Identity | Nullable | Default |
|-----------|-----------|-----------|----------|----------|---------|
| <b>PK</b> | inst_id   | int       |          |          |         |
|           | inst_name | nchar(50) |          | X        |         |
| <b>FK</b> | dept_id   | int       |          |          |         |

**Indexes:**

**PK\_Instructor** (Primary Key) (Clustered)

inst\_id

**References:**

**dbo.Department** (dept\_id)

**Referenced by:**

**dbo.Inst\_course** (*inst\_id*)

**Used by:**

Procedure **dbo.delete\_dept**

Procedure **dbo.delete\_instructor**

Procedure **dbo.get\_all\_instructors**

Procedure **dbo.get\_inst**

Procedure **dbo.insert\_inst**

Procedure **dbo.insert\_inst\_courses**

Procedure **dbo.update\_inst**

**Table dbo.Q\_ex\_stud** (*0 rows*)

|               | Column     | Data Type | Identity | Nullable | Default |
|---------------|------------|-----------|----------|----------|---------|
| <b>PK, FK</b> | Q_id       | int       |          |          |         |
| <b>PK, FK</b> | ex_id      | int       |          |          |         |
| <b>PK, FK</b> | stud_id    | int       |          |          |         |
|               | std_answer | nchar(20) |          | X        |         |

**Indexes:**

**PK\_Q\_ex\_stud** (*Primary Key*) (*Clustered*)

Q\_id  
ex\_id  
stud\_id

**References:**

**dbo.Exam** (*ex\_id -> exam\_id*)

**dbo.Question** (*Q\_id*)

**dbo.Student** (*stud\_id -> std\_id*)

**Used by:**

Procedure **dbo.answer\_question**

Procedure **dbo.correctExam**

Procedure **dbo.delete\_crs\_questions**

Procedure **dbo.delete\_exam**

Procedure **dbo.delete\_Q\_ex\_stud**

Procedure **dbo.delete\_Question**

Procedure **dbo.delete\_student**

Procedure **dbo.generateExam**

Procedure **dbo.get\_q\_stud\_answer**

Procedure **dbo.insert\_student\_answer**

Procedure **dbo.update\_q\_stud\_answer**

**Table dbo.Question** (0 rows)

|           | Column         | Data Type     | Identity | Nullable | Default |
|-----------|----------------|---------------|----------|----------|---------|
| <b>PK</b> | Q_id           | int           |          |          |         |
|           | Question       | nvarchar(max) |          | X        |         |
|           | Q_type         | nchar(20)     |          | X        |         |
|           | Q_model_answer | nvarchar(max) |          | X        |         |
|           | grade          | int           |          | X        |         |
| <b>FK</b> | course_id      | int           |          |          |         |

**Indexes:**

**PK\_Question** (Primary Key) (Clustered)

Q\_id

**References:**

**dbo.Course** (course\_id)

**Referenced by:**

**dbo.Exam\_choices** (Q\_id)

**dbo.Q\_ex\_stud** (Q\_id)

**Used by:**

**Procedure dbo.answer\_question**

**Procedure dbo.correctExam**

**Procedure dbo.delete\_crs\_questions**

**Procedure dbo.delete\_Question**

**Procedure dbo.generateExam**

**Procedure dbo.get\_all\_questions**

**Procedure dbo.get\_course\_questions**

**Procedure dbo.get\_question**

**Procedure dbo.insert\_exam\_choices**

**Procedure dbo.insert\_question**

**Procedure dbo.insert\_student\_answer**

**Procedure dbo.update\_course\_questions**

**Procedure dbo.update\_course\_questions2**

**Table dbo.Stud\_course** (0 rows)

|               | Column       | Data Type | Identity | Nullable | Default |
|---------------|--------------|-----------|----------|----------|---------|
| <b>PK, FK</b> | course_id    | int       |          |          |         |
| <b>PK, FK</b> | stud_id      | int       |          |          |         |
|               | course_grade | int       |          | X        |         |

**Indexes:**

**PK\_Stud\_course** (Primary Key) (Clustered)

course\_id



stud\_id

**References:**

**dbo.Course** (*course\_id*)

**dbo.Student** (*stud\_id* -> *std\_id*)

**Used by:**

**Procedure** **dbo.correctExam**

**Procedure** **dbo.delete\_crs**

**Procedure** **dbo.delete\_stud\_course**

**Procedure** **dbo.delete\_student**

**Procedure** **dbo.get\_std\_courses**

**Procedure** **dbo.insert\_stud\_courses**

**Procedure** **dbo.update\_std\_courses**

**Table **dbo.Student**** (*4 rows*)

|           | Column  | Data Type | Identity | Nullable | Default |
|-----------|---------|-----------|----------|----------|---------|
| <b>PK</b> | std_id  | int       |          |          |         |
|           | f_name  | nchar(20) |          | X        |         |
|           | l_name  | nchar(20) |          | X        |         |
| <b>FK</b> | dept_id | int       |          |          |         |

**Indexes:**

**PK\_Student** (*Primary Key*) (*Clustered*)

std\_id

**References:**

**dbo.Department** (*dept\_id*)

**Referenced by:**

**dbo.Q\_ex\_stud** (*stud\_id* -> *std\_id*)

**dbo.Stud\_course** (*stud\_id* -> *std\_id*)

**Used by:**

**Procedure** **dbo.delete\_dept**

**Procedure** **dbo.delete\_student**

**Procedure** **dbo.get\_all\_students**

**Procedure** **dbo.get\_stud**

**Procedure** **dbo.insert\_stud**

**Procedure** **dbo.insert\_stud\_courses**

**Procedure** **dbo.insert\_student\_answer**

**Procedure** **dbo.update\_stud**

**Table **dbo.Topic**** (*0 rows*)

|           | Column     | Data Type | Identity | Nullable | Default |
|-----------|------------|-----------|----------|----------|---------|
| <b>PK</b> | topic_id   | int       |          |          |         |
|           | topic_name | nchar(50) |          | X        |         |
| <b>FK</b> | course_id  | int       |          |          |         |

#### Indexes:

**PK\_Topic** (*Primary Key*) (*Clustered*)

topic\_id

#### References:

**dbo.Course** (*course\_id*)

#### Used by:

Procedure **dbo.delete\_crs**

Procedure **dbo.delete\_topic**

Procedure **dbo.get\_all\_topics**

Procedure **dbo.get\_course\_topics**

Procedure **dbo.get\_topics**

Procedure **dbo.insert\_topics**

Procedure **dbo.update\_course\_topics**

## **Procedures:**

### **Procedure dbo.answer\_question**

| Parameter   | Data Type | Default | Is Output |
|-------------|-----------|---------|-----------|
| @id         | int       |         |           |
| @Q_id       | int       |         |           |
| @std_answer | nchar(20) |         |           |
| @crs_id     | int       |         |           |

#### **Uses:**

Table dbo.Q\_ex\_stud

Table dbo.Question

### **Procedure dbo.correctExam**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @ex_id    | int       |         |           |
| @std_id   | int       |         |           |
| @crs_id   | int       |         |           |

#### **Uses:**

Table dbo.Q\_ex\_stud

Table dbo.Question

Table dbo.Stud\_course

### **Procedure dbo.delete\_crs**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

#### **Uses:**

Table dbo.Course

Table dbo.Exam

Table dbo.Inst\_course

Table dbo.Stud\_course

Table dbo.Topic

### **Procedure dbo.delete\_crs\_questions**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @crs_id   | int       |         |           |

#### **Uses:**

Table dbo.Exam\_choices

Table dbo.Q\_ex\_stud

## Table dbo.Question

### **Procedure dbo.delete\_dept**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

#### **Uses:**

Table dbo.Department

Table dbo.Instructor

Table dbo.Student

### **Procedure dbo.delete\_exam**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

#### **Uses:**

Table dbo.Exam

Table dbo.Q\_ex\_stud

### **Procedure dbo.delete\_exam\_choices**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

#### **Uses:**

Table dbo.Exam\_choices

### **Procedure dbo.delete\_instructor**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

#### **Uses:**

Table dbo.Inst\_course

Table dbo.Instructor

### **Procedure dbo.delete\_Q\_ex\_stud**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @Q_id     | int       |         |           |
| @ex_id    | int       |         |           |
| @stud_id  | int       |         |           |

#### **Uses:**

Table dbo.Q\_ex\_stud

### **Procedure dbo.delete\_Question**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @Q_id     | int       |         |           |
| @ex_id    | int       |         |           |

#### **Uses:**

Table dbo.Exam\_choices

Table dbo.Q\_ex\_stud

Table dbo.Question

### **Procedure dbo.delete\_stud\_course**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @st_id    | int       |         |           |
| @crs_id   | int       |         |           |

#### **Uses:**

Table dbo.Stud\_course

### **Procedure dbo.delete\_student**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

#### **Uses:**

Table dbo.Q\_ex\_stud

Table dbo.Stud\_course

Table dbo.Student

### **Procedure dbo.delete\_topic**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @topic_id | int       |         |           |

#### **Uses:**

Table dbo.Topic

### **Procedure dbo.generateExam**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @crs_id   | int       |         |           |
| @no_T_F   | int       |         |           |
| @no_mcq   | int       |         |           |

#### **Uses:**

**Table dbo.Exam**

**Table dbo.Q\_ex\_stud**

**Table dbo.Question**

### **Procedure dbo.get\_all\_choices**

*No parameters.*

#### **Result:**

| Column  | Data Type     | Nullable |
|---------|---------------|----------|
| Q_id    | int           |          |
| choices | nvarchar(100) |          |

#### **Uses:**

**Table dbo.Exam\_choices**

### **Procedure dbo.get\_all\_courses**

*No parameters.*

#### **Result:**

| Column      | Data Type | Nullable |
|-------------|-----------|----------|
| course_id   | int       |          |
| course_name | nchar(20) | X        |

#### **Uses:**

**Table dbo.Course**

### **Procedure dbo.get\_all\_departments**

*No parameters.*

#### **Result:**

| Column    | Data Type | Nullable |
|-----------|-----------|----------|
| dept_id   | int       |          |
| dept_name | nchar(50) | X        |

#### **Uses:**

**Table dbo.Department**

### **Procedure dbo.get\_all\_exams**

*No parameters.*

#### **Result:**

| Column    | Data Type | Nullable |
|-----------|-----------|----------|
| exam_id   | int       |          |
| duration  | time      | X        |
| course_id | int       |          |

**Uses:**

Table dbo.Exam

**Procedure dbo.get\_all\_instructors**

*No parameters.*

**Result:**

| Column    | Data Type | Nullable |
|-----------|-----------|----------|
| inst_id   | int       |          |
| inst_name | nchar(50) | X        |
| dept_id   | int       |          |

**Uses:**

Table dbo.Instructor

**Procedure dbo.get\_all\_questions**

*No parameters.*

**Result:**

| Column         | Data Type     | Nullable |
|----------------|---------------|----------|
| Q_id           | int           |          |
| Question       | nvarchar(max) | X        |
| Q_type         | nchar(20)     | X        |
| Q_model_answer | nvarchar(max) | X        |
| grade          | int           | X        |
| course_id      | int           |          |

**Uses:**

Table dbo.Question

**Procedure dbo.get\_all\_students**

*No parameters.*

**Result:**

| Column  | Data Type | Nullable |
|---------|-----------|----------|
| std_id  | int       |          |
| f_name  | nchar(20) | X        |
| l_name  | nchar(20) | X        |
| dept_id | int       |          |

**Uses:**

Table dbo.Student

**Procedure dbo.get\_all\_topics**

*No parameters.*

**Result:**

| Column     | Data Type | Nullable |
|------------|-----------|----------|
| topic_id   | int       |          |
| topic_name | nchar(50) | X        |
| course_id  | int       |          |

**Uses:**

Table dbo.Topic

**Procedure dbo.get\_course**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

**Result:**

| Column      | Data Type | Nullable |
|-------------|-----------|----------|
| course_id   | int       |          |
| course_name | nchar(20) | X        |

**Uses:**

Table dbo.Course

**Procedure dbo.get\_course\_questions**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @c_id     | int       |         |           |

**Result:**

| Column         | Data Type     | Nullable |
|----------------|---------------|----------|
| Q_id           | int           |          |
| Question       | nvarchar(max) | X        |
| Q_type         | nchar(20)     | X        |
| Q_model_answer | nvarchar(max) | X        |
| grade          | int           | X        |
| course_id      | int           |          |

**Uses:**

Table dbo.Question

**Procedure dbo.get\_course\_topics**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @c_name   | nchar(20) |         |           |

**Result:**

| Column     | Data Type | Nullable |
|------------|-----------|----------|
| topic_name | nchar(50) | X        |

**Uses:**



Table dbo.Course

Table dbo.Topic

### **Procedure dbo.get\_dept**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

**Result:**

| Column    | Data Type | Nullable |
|-----------|-----------|----------|
| dept_id   | int       |          |
| dept_name | nchar(50) | X        |

**Uses:**

Table dbo.Department

### **Procedure dbo.get\_exam**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

**Result:**

| Column    | Data Type | Nullable |
|-----------|-----------|----------|
| exam_id   | int       |          |
| duration  | time      | X        |
| course_id | int       |          |

**Uses:**

Table dbo.Exam

### **Procedure dbo.get\_inst**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

**Result:**

| Column    | Data Type | Nullable |
|-----------|-----------|----------|
| inst_id   | int       |          |
| inst_name | nchar(50) | X        |
| dept_id   | int       |          |

**Uses:**

Table dbo.Instructor

### **Procedure dbo.get\_instructor\_courses**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

**Result:**

| Column    | Data Type | Nullable |
|-----------|-----------|----------|
| course_id | int       |          |
| inst_id   | int       |          |

**Uses:**

Table dbo.Inst\_course

**Procedure dbo.get\_q\_stud\_answer**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @st_id    | int       |         |           |

**Result:**

| Column     | Data Type | Nullable |
|------------|-----------|----------|
| std_answer | nchar(20) | X        |

**Uses:**

Table dbo.Q\_ex\_stud

**Procedure dbo.get\_question**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

**Result:**

| Column         | Data Type     | Nullable |
|----------------|---------------|----------|
| Q_id           | int           |          |
| Question       | nvarchar(max) | X        |
| Q_type         | nchar(20)     | X        |
| Q_model_answer | nvarchar(max) | X        |
| grade          | int           | X        |
| course_id      | int           |          |

**Uses:**

Table dbo.Question

**Procedure dbo.get\_question\_choices**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

**Result:**

| Column  | Data Type     | Nullable |
|---------|---------------|----------|
| Q_id    | int           |          |
| choices | nvarchar(100) |          |

**Uses:**

## Table dbo.Exam\_choices

### Procedure dbo.get\_std\_courses

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @st_id    | int       |         |           |

#### Result:

| Column       | Data Type | Nullable |
|--------------|-----------|----------|
| course_id    | int       |          |
| stud_id      | int       |          |
| course_grade | int       | X        |

#### Uses:

Table dbo.Stud\_course

### Procedure dbo.get\_std

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |

#### Result:

| Column  | Data Type | Nullable |
|---------|-----------|----------|
| std_id  | int       |          |
| f_name  | nchar(20) | X        |
| l_name  | nchar(20) | X        |
| dept_id | int       |          |

#### Uses:

Table dbo.Student

### Procedure dbo.get\_topics

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @t_id     | int       |         |           |

#### Result:

| Column     | Data Type | Nullable |
|------------|-----------|----------|
| topic_id   | int       |          |
| topic_name | nchar(50) | X        |
| course_id  | int       |          |

#### Uses:

Table dbo.Topic

### Procedure dbo.insert\_course

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |
| @crs_name | nchar(20) |         |           |

**Uses:**

Table dbo.Course

**Procedure dbo.insert\_dept**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |
| @name     | nchar(50) |         |           |

**Uses:**

Table dbo.Department

**Procedure dbo.insert\_exam**

| Parameter  | Data Type | Default | Is Output |
|------------|-----------|---------|-----------|
| @id        | int       |         |           |
| @duration  | time      |         |           |
| @course_id | int       |         |           |

**Uses:**

Table dbo.Exam

**Procedure dbo.insert\_exam\_choices**

| Parameter | Data Type     | Default | Is Output |
|-----------|---------------|---------|-----------|
| @id       | int           |         |           |
| @choices  | nvarchar(100) |         |           |

**Uses:**

Table dbo.Exam\_choices

Table dbo.Question

**Procedure dbo.insert\_inst**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |
| @name     | nchar(50) |         |           |
| @dept_id  | int       |         |           |

**Uses:**

Table dbo.Instructor

**Procedure dbo.insert\_inst\_courses**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @c_id     | int       |         |           |
| @inst_id  | int       |         |           |

**Uses:**

Table dbo.Course

Table dbo.Inst\_course

Table dbo.Instructor

**Procedure dbo.insert\_question**

| Parameter     | Data Type     | Default | Is Output |
|---------------|---------------|---------|-----------|
| @id           | int           |         |           |
| @q_desc       | nvarchar(max) |         |           |
| @q_type       | nchar(20)     |         |           |
| @model_answer | nvarchar(max) |         |           |
| @grade        | int           |         |           |
| @c_id         | int           |         |           |

**Uses:**

Table dbo.Question

**Procedure dbo.insert\_stud**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |
| @f_name   | nchar(20) |         |           |
| @l_name   | nchar(20) |         |           |
| @dept_id  | int       |         |           |

**Uses:**

Table dbo.Student

**Procedure dbo.insert\_stud\_courses**

| Parameter  | Data Type | Default | Is Output |
|------------|-----------|---------|-----------|
| @c_id      | int       |         |           |
| @std_id    | int       |         |           |
| @crs_grade | int       |         |           |

**Uses:**

Table dbo.Course

Table dbo.Stud\_course

Table dbo.Student

**Procedure dbo.insert\_student\_answer**

| Parameter   | Data Type | Default | Is Output |
|-------------|-----------|---------|-----------|
| @q_id       | int       |         |           |
| @ex_id      | int       |         |           |
| @stud_id    | int       |         |           |
| @std_answer | nchar(20) |         |           |

**Uses:**

Table dbo.Exam

Table dbo.Q\_ex\_stud

Table dbo.Question

Table dbo.Student

**Procedure dbo.insert\_topics**

| Parameter   | Data Type | Default | Is Output |
|-------------|-----------|---------|-----------|
| @id         | int       |         |           |
| @topic_name | nchar(50) |         |           |
| @crs_id     | int       |         |           |

**Uses:**

Table dbo.Topic

**Procedure dbo.update\_course**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |
| @name     | nchar(20) |         |           |

**Uses:**

Table dbo.Course

**Procedure dbo.update\_course\_questions**

| Parameter       | Data Type     | Default | Is Output |
|-----------------|---------------|---------|-----------|
| @id             | int           |         |           |
| @Q_id           | int           |         |           |
| @Question       | nvarchar(max) |         |           |
| @Q_type         | nchar(20)     |         |           |
| @Q_model_answer | nvarchar(max) |         |           |
| @grade          | int           |         |           |

**Uses:**

Table dbo.Question

**Procedure dbo.update\_course\_questions2**

| Parameter       | Data Type     | Default | Is Output |
|-----------------|---------------|---------|-----------|
| @id             | int           |         |           |
| @Question       | nvarchar(max) |         |           |
| @Q_type         | nchar(20)     |         |           |
| @Q_model_answer | nvarchar(max) |         |           |
| @grade          | int           |         |           |
| @course_id      | int           |         |           |

**Uses:**

Table dbo.Question

### **Procedure dbo.update\_course\_topics**

| Parameter   | Data Type | Default | Is Output |
|-------------|-----------|---------|-----------|
| @id         | int       |         |           |
| @topic_name | nchar(50) |         |           |
| @topic_id   | int       |         |           |

**Uses:**

Table dbo.Topic

### **Procedure dbo.update\_dept**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |
| @name     | nchar(50) |         |           |

**Uses:**

Table dbo.Department

### **Procedure dbo.update\_exam**

| Parameter  | Data Type | Default | Is Output |
|------------|-----------|---------|-----------|
| @id        | int       |         |           |
| @duration  | time      |         |           |
| @course_id | int       |         |           |

**Uses:**

Table dbo.Exam

### **Procedure dbo.update\_inst**

| Parameter | Data Type | Default | Is Output |
|-----------|-----------|---------|-----------|
| @id       | int       |         |           |
| @name     | nchar(50) |         |           |
| @dept_id  | int       |         |           |

**Uses:**

Table dbo.Instructor

### **Procedure dbo.update\_instructor\_courses**

| Parameter  | Data Type | Default | Is Output |
|------------|-----------|---------|-----------|
| @id        | int       |         |           |
| @course_id | int       |         |           |

**Uses:**

Table dbo.Inst\_course

### **Procedure dbo.update\_q\_stud\_answer**

| Parameter   | Data Type | Default | Is Output |
|-------------|-----------|---------|-----------|
| @id         | int       |         |           |
| @Q_id       | int       |         |           |
| @ex_id      | int       |         |           |
| @std_answer | nchar(20) |         |           |

#### **Uses:**

Table dbo.Q\_ex\_stud

### **Procedure dbo.update\_question\_choices**

| Parameter | Data Type  | Default | Is Output |
|-----------|------------|---------|-----------|
| @id       | int        |         |           |
| @choices  | nchar(100) |         |           |

#### **Uses:**

Table dbo.Exam\_choices

### **Procedure dbo.update\_std\_courses**

| Parameter     | Data Type | Default | Is Output |
|---------------|-----------|---------|-----------|
| @id           | int       |         |           |
| @course_id    | int       |         |           |
| @course_grade | int       |         |           |

#### **Uses:**

Table dbo.Stud\_course

### **Procedure dbo.update\_stud**

| Parameter   | Data Type | Default | Is Output |
|-------------|-----------|---------|-----------|
| @id         | int       |         |           |
| @first_name | nchar(20) |         |           |
| @last_name  | nchar(20) |         |           |
| @dept_id    | int       |         |           |

#### **Uses:**

Table dbo.Student