Database documentation

Server name: .
Database name: Examination System
Documentation date: 3/1/2022
Database size: 16.00 MB
Database description:

Table summary

Name	Data size	Index size	Row size (*)	Row Count
dbo.Course	8 KB	8 KB	44	4
dbo.Department	8 KB	8 KB	44	3
dbo.Instructor	8 KB	8 KB	121	2
dbo.Instructor_teaches_Courses	8 KB	8 KB	15	3
dbo.Instructor_worksIn_Department	8 KB	8 KB	15	2
dbo.Question	8 KB	8 KB	928	46
dbo.Student	8 KB	8 KB	125	4
dbo.Student_takes_Courses	8 KB	8 KB	19	6
dbo.Students_answer_Questions	8 KB	8 KB	119	1
dbo.Topic	8 KB	8 KB	44	7
dbo.User	8 KB	24 KB	170	6

* Estimated row size. It assumes that all variable-length are 100% full, except those set to MAX.

11 table(s)

dbo.Course

I F P	Column name	Data type	Nulls	Default	Description
ID	ID	int	NO		ID column contains integer datatype - is a primary key - cannot be null
	name	varchar (25)	NO		name field: contains the name of the course - contains varchar datatype - cannot be null -must be unique - must be less than 25 char
	duration	int	YES		duration field: contains integer value /number refers to count of hours in each course

Indexes

Index name	Column name	Sort direction	Is unique	Index type
PK_Course	ID	ASC	Yes	CLUSTERED

Referencing tables

Table name	Foreign key	Primary key or unique constraint
dbo.Instructor_teaches_Courses	FK_Instructor_teaches_Courses_Course	PK_Course
dbo.Question	FK_Question_Course	PK_Course
dbo.Student_takes_Courses	FK_Student_takes_Courses_Course	PK_Course
dbo.Topic	FK_Topic_Course	PK_Course

Objects that depend on dbo.Course

dbo.addCourse (Stored procedure)

dbo.getAllCourses (Stored procedure)

dbo.getCourseById (Stored procedure)

dbo.getCrsesThatStudentTake (Stored procedure)

dbo.getInsCoursesByInsID (Stored procedure)

dbo.getInstructorCourses (Stored procedure)

dbo.removeCourse (Stored procedure)

dbo.updateCrsData (Stored procedure)

🔲 dbo.Department

I F P	Column name	Data type	Nulls	Default	Description
🔑	ID	int	NO		ID field : is the primary key of the Department table - contains integer values - must be unique and not null
	Name	varchar (25)	NO		Department name - must be unique - textual data - cannot be more than 25 characters
🔑 FK	mgr_id	int	NO		is a foriegn key - contains integer data refers to ID column in Instructor table -cannot be null

🔑 Indexes

Index name	Column name	Sort direction	Is unique	Index type
PK_Department	ID	ASC	Yes	CLUSTERED

🔑 Foreign keys

Constraint name	Column name	Reference	Description
FK_Department_Instructor	mgr_id	PK_Instructor (dbo.Instructor)	

🔑 Referencing tables

Table name	Foreign key	Primary key or unique constraint
dbo.Instructor_worksIn_Department	FK_Instructor_worksIn_Department_Department	PK_Department
dbo.Student	FK_Student_Department	PK_Department

Objects that depend on dbo.Department

dbo.addDept (Stored procedure)

dbo.deleteDept (Stored procedure)

dbo.getAllDepts (Stored procedure)

dbo.getDeptByID (Stored procedure)

dbo.getDeptsInsWorksIn (Stored procedure)

dbo.updateDept (Stored procedure)

🔲 dbo.Instructor

I F P	Column name	Data type	Nulls	Default	Description
🔑🔑	ID	int	NO		ID: is the primary key for instructor table - it contains integer values
	firstname	varchar (50)	NO		firstname: column contains textual data represent Instructor first name - must be less than 50 characters - cannot be null
	lastname	varchar (50)	NO		lastname field: contains instructor's last name - cannot be null - cannot be more than 50 characters
🔑	user_id	int	NO		user_id field : is a foreign key that refers to the ID column in User table

🔑 Indexes

Index name	Column name	Sort direction	Is unique	Index type
PK_Instructor	ID	ASC	Yes	CLUSTERED

🔑 Foreign keys

Constraint name	Column name	Reference	Description
FK_Instructor_User	user_id	PK_User (dbo.User)	

🔑 Referencing tables

Table name	Foreign key	Primary key or unique constraint
dbo.Department	FK_Department_Instructor	PK_Instructor
dbo.Instructor_teaches_Courses	FK_Instructor_teaches_Courses_Instructor	PK_Instructor
dbo.Instructor_worksIn_Department	FK_Instructor_worksIn_Department_Instructor	PK_Instructor

Objects that depend on dbo.Instructor

dbo.addIns (Stored procedure)

dbo.getAllInstructors (Stored procedure)

dbo.getDeptsInsWorksIn (Stored procedure)

dbo.getInsById (Stored procedure)

dbo.getInsCoursesByInsID (Stored procedure)

dbo.getInstructorCourses (Stored procedure)

dbo.removeIns (Stored procedure)

dbo.updateInsFname (Stored procedure)

🗔 dbo.Instructor_teaches_Courses

I F P	Column name	Data type	Nulls	Default	Description
🔑🔑FK🔑	ins_id	int	NO		is a foreign key refers to ID column in Instructor table - contains integer values - cannot be null
🔑🔑FK🔑	crs_id	int	NO		is a foreign key refers to ID column in Course table - contains integer values - cannot be null

🔑 Indexes

Index name	Column name	Sort direction	Is unique	Index type
PK_Instructor_teaches_Courses	ins_id	ASC	Yes	CLUSTERED
PK_Instructor_teaches_Courses	crs_id	ASC	Yes	CLUSTERED

🔑 Foreign keys

Constraint name	Column name	Reference	Description
FK_Instructor_teaches_Courses _Course	crs_id	PK_Course (dbo.Course)	
FK_Instructor_teaches_Courses _Instructor	ins_id	PK_Instructor (dbo.Instructor)	

Objects that depend on dbo.Instructor_teaches_Courses

dbo.assignNewCrsToInstructor (Stored procedure)

dbo.changeCrsThatInsTeach (Stored procedure)

dbo.getInsCoursesByInsID (Stored procedure)

dbo.getInstructorCourses (Stored procedure)

dbo.unassignCourseToIns (Stored procedure)

🖼 dbo.Instructor_worksIn_Department

I F P	Column name	Data type	Nulls	Default	Description
🔑fx 🔑FK 🔑	ins_id	int	NO		is a foreign key refers to ID column in Instructor table - integer values - cannot be null
🔑fx 🔑FK 🔑	dept_id	int	NO		is a foreign key refers to ID column in Department table - integer values - cannot be null

🔑fx Indexes

Index name	Column name	Sort direction	Is unique	Index type
PK_Instructor_worksIn_Department	ins_id	ASC	Yes	CLUSTERED
PK_Instructor_worksIn_Department	dept_id	ASC	Yes	CLUSTERED

🔑FK Foreign keys

Constraint name	Column name	Reference	Description
FK_Instructor_worksIn_Department_Department	dept_id	PK_Department (dbo.Department)	
FK_Instructor_worksIn_Department_Instructor	ins_id	PK_Instructor (dbo.Instructor)	

Objects that depend on dbo.Instructor_worksIn_Department

dbo.assignInsToDept (Stored procedure)

dbo.chngeInsDept (Stored procedure)

dbo.getDeptsInsWorksIn (Stored procedure)

dbo.rmoveInsFromDept (Stored procedure)

🖻 dbo.Question

I F P	Column name	Data type	Nulls	Default	Description
🔑🔑	ID	int	NO		Primary key - contains integer data - must be unique and not null
	body	varchar (500)	NO		This column contains the body of the question - cannot be null
	correct_answer	varchar (100)	NO		This column contains one of the choices as well as the correct choice - cannot be null- contains textual data
	a2	varchar (100)	NO		contains the second choice / answer to the question - cannot be null - contains textual data
	a3	varchar (100)	YES		Contains the third choice / answer - can be null in case of (true or false) question
	a4	varchar (100)	YES		Contains the fourth choice / answer - can be null in case of (true or false) question
	type_of_question	bit	NO	((0))	Contains type of question - True for [True or False] and False for [Multiple Choice]
🔑FK	crs_id	int	NO		Is a foriegn key refers to ID column in Course table - contains integer value - cannot be null

🔑 Indexes

Index name	Column name	Sort direction	Is unique	Index type
PK_Question	ID	ASC	Yes	CLUSTERED

🔑 Foreign keys

Constraint name	Column name	Reference	Description
FK_Question_Course	crs_id	PK_Course (dbo.Course)	

🔑 Referencing tables

Table name	Foreign key	Primary key or unique constraint
dbo.Students_answer_Questions	FK_Students_answer_Questions_Question	PK_Question

Objects that depend on dbo.Question

dbo.addQuest (Stored procedure)

dbo.deleteQuest (Stored procedure)

dbo.getAllAboutQuestions (Stored procedure)

dbo.getAllQuestions (Stored procedure)

dbo.getQuestById (Stored procedure)

dbo.getStdsAnsToSpecQuest (Stored procedure)

dbo.updateQuest (Stored procedure)

🔲 **dbo.Student**

I F P	Column name	Data type	Nulls	Default	Description
🔑fx 🔑	ID	int	NO		ID field : is the primary key of the table - contains integer unique values - cannot be null
	firstname	varchar (50)	NO		firstname field: contains student firstname, must be varchar cannot be more than 50 characters - cannot be null
	lastname	varchar (50)	NO		lastname field: contains student lastname, must be varchar cannot be more than 50 characters - cannot be null
🔑FK	user_id	int	NO		user-id field: is a foreign key refers to ID column in User table - cannot be null - contains integer values
🔑FK	dept_id	int	NO		dept-id field: is a foreign key refers to ID column in Department table - cannot be null - contains integer values

🔑fx Indexes

Index name	Column name	Sort direction	Is unique	Index type
PK_Student	ID	ASC	Yes	CLUSTERED

🔑FK Foreign keys

Constraint name	Column name	Reference	Description
FK_Student_Department	dept_id	PK_Department (dbo.Department)	
FK_Student_User	user_id	PK_User (dbo.User)	

🔑fx Referencing tables

Table name	Foreign key	Primary key or unique constraint
dbo.Student_takes_Courses	FK_Student_takes_Courses_Student	PK_Student
dbo.Students_answer_Questions	FK_Students_answer_Questions_Student	PK_Student

Objects that depend on dbo.Student

dbo.addStd (Stored procedure)

dbo.deleteStd (Stored procedure)

dbo.getAllStudents (Stored procedure)

dbo.getCrsesThatStudentTake (Stored procedure)

dbo.getStdsAnsToSpecQuest (Stored procedure)

dbo.getStudentByID (Stored procedure)

dbo.updateStdFname (Stored procedure)

⊞ dbo.Student_takes_Courses

I F P	Column name	Data type	Nulls	Default	Description
🔑x 🔑FK 🔑	student_id	int	NO		foreign key refers to ID column in Student table
🔑x 🔑FK 🔑	crs_id	int	NO		foreign key refers to ID column in Course table
	grade	int	NO	((0))	grade field : contains student grade which is an integer value represent student grade at that course - default value is equal to 0 - cannot be null

🔑x Indexes

Index name	Column name	Sort direction	Is unique	Index type
PK_Student_takes_Courses	student_id	ASC	Yes	CLUSTERED
PK_Student_takes_Courses	crs_id	ASC	Yes	CLUSTERED

🔑FK Foreign keys

Constraint name	Column name	Reference	Description
FK_Student_takes_Courses_Course	crs_id	PK_Course (dbo.Course)	
FK_Student_takes_Courses_Student	student_id	PK_Student (dbo.Student)	

Objects that depend on dbo.Student_takes_Courses

dbo.addNewCrsToStd (Stored procedure)

dbo.chngCrsStdTake (Stored procedure)

dbo.getCrsesThatStudentTake (Stored procedure)

dbo.removeFromCrsStdTake (Stored procedure)

🔲 dbo.Students_answer_Questions

I F P	Column name	Data type	Nulls	Default	Description
🔑FK	Std_ID	int	NO		Std_ID: is a foreign key refers to ID of the student- takes integer values - doesn't allow null
🔑FK	Question_ID	int	NO		Contains a foreign key that refers to ID column in Question table - integer values - doesn't allow null
	Student_Answer	varchar (100)	YES		Contains varchar datatype - consist of the student answer for a particular question

🔑FK Foreign keys

Constraint name	Column name	Reference	Description
FK_Students_answer_Questions _Question	Question_ID	PK_Question (dbo.Question)	
FK_Students_answer_Questions _Student	Std_ID	PK_Student (dbo.Student)	

Objects that depend on dbo.Students_answer_Questions

dbo.addNewQuestionAnswer (Stored procedure)

dbo.getStdsAnsToSpecQuest (Stored procedure)

dbo.removeStdAnswer (Stored procedure)

dbo.updateStdAnswer (Stored procedure)

🗔 **dbo.Topic**

I F P	Column name	Data type	Nulls	Default	Description
🔑🗝	ID	int	NO		The primary key of the table - contains integer values - cannot be null
	name	varchar (25)	NO		The topic name - textual data - cannot be null
🔑	crs_id	int	NO		is a foriegn key refers to ID column in Course table - Each Course contains number of topics

🗝 **Indexes**

Index name	Column name	Sort direction	Is unique	Index type
PK_Topic	ID	ASC	Yes	CLUSTERED

🔑 **Foreign keys**

Constraint name	Column name	Reference	Description
FK_Topic_Course	crs_id	PK_Course (dbo.Course)	

Objects that depend on dbo.Topic

dbo.addTopic (Stored procedure)

dbo.getAllTopics (Stored procedure)

dbo.getTopicByID (Stored procedure)

dbo.removeTopic (Stored procedure)

dbo.updateTopicName (Stored procedure)

🖼 **dbo.User**

I F P	Column name	Data type	Nulls	Default	Description
🔑🔑	ID	int	NO		ID field: the primary key of the table contains integer datatype - cannot be null
	username	varchar (50)	NO		username field: contains varchar data type (textual data) - cannot be more than 50 chars - cannot be null
	email	varchar (50)	NO		email field: contains the user email - is unique - varchar datatype - cannot be null
	password	varchar (50)	NO		password field: contains user password - varchar datatype - cannot be more than 50 characters
	user_type	bit	NO		user_type: contains bit value represent two types of the user if 0 then it's instructor if 1 then it's student

🔑 Indexes

Index name	Column name	Sort direction	Is unique	Index type
email	ID	ASC	Yes	NONCLUSTERED
PK_User	ID	ASC	Yes	CLUSTERED

🔑 Referencing tables

Table name	Foreign key	Primary key or unique constraint
dbo.Instructor	FK_Instructor_User	PK_User
dbo.Student	FK_Student_User	PK_User

Objects that depend on dbo.User

dbo.createUser (Stored procedure)

dbo.deleteUser (Stored procedure)

dbo.getUserByID (Stored procedure)

dbo.getUsers (Stored procedure)

dbo.updateUserName (Stored procedure)

dbo.addCourse

Created: 28 Feb 2022 Last updated: 28 Feb 2022

Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@crsname	varchar	IN	
@crsduration	int	IN	

```
create proc addCourse @id int, @crsname varchar(25), @crsduration int
as
if not exists(select * from Course where ID = @id)
insert into Course values(@id, @crsname, @crsduration)
else
select 'duplicate id, cannot insert'as 'message'
```

Related objects

dbo.Course(TABLE)

📝 dbo.addDept

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@deptname	varchar	IN	
@mgr_id	int	IN	

```
create proc addDept @id int, @deptname varchar(25),@mgr_id int
as
if not exists(select * from Department where ID = @id)
insert into Department values(@id, @deptname, @mgr_id)
else
select 'Duplicate ID cannot insert'as 'message'
```

Related objects

dbo.Department(TABLE)

📝 dbo.addIns

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@fname	varchar	IN	
@lname	varchar	IN	
@userid	int	IN	

```
create proc addIns @id int, @fname varchar(50), @lname varchar(50), @userid int
as
if not exists (select * from [Instructor]
where ID = @id)
insert into [Instructor] values (@id, @fname, @lname, @userid)
else
select 'duplicate Id'
```

Related objects

dbo.Instructor(TABLE)

📝 dbo.addNewCrsToStd

Created: 01 Mar 2022 Last updated: 01 Mar 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@stdid	int	IN	
@crsid	int	IN	

```
create proc addNewCrsToStd @stdid int, @crsid int
as
begin try
insert into Student_takes_Courses values (@stdid,@crsid,0)
end try
begin catch
select 'cannot insert invalid stdid or crsid'as 'message'
end catch
```

Related objects

dbo.Student_takes_Courses(TABLE)

dbo.addNewQuestionAnswer

Created: 01 Mar 2022 Last updated: 01 Mar 2022

Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@stdid	int	IN	
@questid	int	IN	
@stdAns	varchar	IN	

```
create proc addNewQuestionAnswer @stdid int, @questid int, @stdAns varchar(100)
as
begin try
insert into Students_answer_Questions values (@stdid,@questid,@stdAns)
end try
begin catch
select 'cannot insert invalid stdid or questionid'as 'message'
end catch
```

Related objects

dbo.Students_answer_Questions(TABLE)

⊞ dbo.addQuest
Created: 28 Feb 2022 Last updated: 28 Feb 2022

⊞ Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@questBody	varchar	IN	
@correctans	varchar	IN	
@anstwo	varchar	IN	
@ansthree	varchar	IN	
@ansfour	varchar	IN	
@questtype	bit	IN	
@crsid	int	IN	

```
create proc addQuest @id int, @questBody varchar(500), @correctans varchar(100), @anstwo varchar(100),
@ansthree varchar(100), @ansfour varchar(100), @questtype bit, @crsid int
as
if not exists (select * from Question where ID = @id)
insert into Question values(@id, @questBody, @correctans,@anstwo,@ansthree,@ansfour,@questtype,@crsid)
else
select 'Sorry, Duplicate Id'as 'message'
```

Related objects
dbo.Question(TABLE)

📝 dbo.addStd

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📑 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@fname	varchar	IN	
@lname	varchar	IN	
@userid	int	IN	
@deptid	int	IN	

```sql
create proc addStd @id int,@fname varchar(20),@lname varchar(20),@userid int,@deptid int
as
if not exists(select * from [Student] where ID = @id)
insert into Student values(@id,@fname,@lname,@userid,@deptid)
else
select 'Sorry Duplicate Id'as 'message'
```

Related objects

dbo.Student(TABLE)

📝 dbo.addTopic

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@topicname	varchar	IN	
@crsid	int	IN	

```
create proc addTopic @id int, @topicname varchar(25), @crsid int
as
if not exists ( select * from Topic where ID = @id )
insert into Topic values (@id, @topicname, @crsid)
else
select 'duplicate id cannot insert'
```

Related objects
dbo.Topic(TABLE)

📝 dbo.assignInsToDept

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📑 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@deptId	int	IN	
@insid	int	IN	

```
create proc assignInsToDept @deptId int, @insid int
as
begin try
insert into Instructor_worksIn_Department values (@insid,@deptId)
end try
begin catch
select 'invalid crs id or ins id cannot insert'as 'message'
end catch
```

Related objects
dbo.Instructor_worksIn_Department(TABLE)

🖼 dbo.assignNewCrsToInstructor

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@insId	int	IN	
@crsId	int	IN	

```
create proc assignNewCrsToInstructor @insId int, @crsId int
as
begin try
insert into Instructor_teaches_Courses values (@insId, @crsId)
end try
begin catch
select 'instructor id or course id is not right'
end catch
```

Related objects

dbo.Instructor_teaches_Courses(TABLE)

📝 dbo.changeCrsThatInsTeach

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@newcrsid	int	IN	

```
create proc changeCrsThatInsTeach @id int, @newcrsid int
as
begin try
update Instructor_teaches_Courses set crs_id = @newcrsid
where ins_id = @id
end try
begin catch
select 'The instructor id or course id is invalid'as 'message'
end catch
```

Related objects

dbo.Instructor_teaches_Courses(TABLE)

📝 dbo.chngCrsStdTake

Created: 01 Mar 2022 Last updated: 01 Mar 2022

📑 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@stdid	int	IN	
@newCrsid	int	IN	

```sql
create proc chngCrsStdTake @stdid int, @newCrsid int
as
if exists(select * from Student_takes_Courses where student_id = @stdid)
update Student_takes_Courses set crs_id = @newCrsid
where student_id = @stdid
else
select 'invalid student id'as 'message'
```

Related objects

dbo.Student_takes_Courses(TABLE)

📰 dbo.chngeInsDept

Created: 01 Mar 2022 Last updated: 01 Mar 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@insid	int	IN	
@newdeptid	int	IN	

```
CREATE proc chngeInsDept @insid int, @newdeptid int
as
if exists(select * from Instructor_worksIn_Department where ins_id = @insid)
update Instructor_worksIn_Department set dept_id = @newdeptid
where ins_id = @insid
else
select 'invalid ins id or dept id'as 'message'
```

Related objects

dbo.Instructor_worksIn_Department(TABLE)

🗹 dbo.createUser

Created: 28 Feb 2022 Last updated: 28 Feb 2022

🗟 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@Id	int	IN	
@username	varchar	IN	
@email	varchar	IN	
@pass	varchar	IN	
@utype	bit	IN	

```
create proc createUser @Id int, @username varchar(50), @email varchar(50), @pass varchar(50), @utype bit
as
insert into [User] values(@Id, @username, @email, @pass, @utype)
```

Related objects

dbo.User(TABLE)

🖼 dbo.deleteDept

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc deleteDept @id int
as
if exists(select * from Department where ID = @id)
delete from Department where ID = @id
else
select 'sorry, no such ID 'as 'message'
```

Related objects
dbo.Department(TABLE)

📝 dbo.deleteQuest

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc deleteQuest @id int
as
if exists(select * from Question where ID = @id)
delete from Question where ID = @id
else
select 'Sorry this id does not exist here 'as 'message'
```

Related objects

dbo.Question(TABLE)

📝 dbo.deleteStd

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc deleteStd @id int
as
if exists(select * from [Student] where ID = @id)
delete from [Student] where ID = @id
else
select 'Sorry this id does not exist here'as 'message'
```

Related objects

dbo.Student(TABLE)

📝 dbo.deleteUser

Created: 28 Feb 2022 Last updated: 28 Feb 2022

🔲 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@Id	int	IN	

```
create proc deleteUser @Id int
as
delete from [User] where ID = @Id
```

Related objects

dbo.User(TABLE)

📝 dbo.getAllAboutQuestions

Created: 28 Feb 2022 Last updated: 28 Feb 2022

```
create proc getAllAboutQuestions
as
select * from Question
```

Related objects

dbo.Question(TABLE)

📄 dbo.getAllCourses

Created: 28 Feb 2022 Last updated: 28 Feb 2022

```
create proc getAllCourses
as
select * from Course
```

Related objects
dbo.Course(TABLE)

dbo.getAllDepts

Created: 28 Feb 2022 Last updated: 28 Feb 2022

```
create proc getAllDepts
as
select * from Department
```

Related objects

dbo.Department(TABLE)

dbo.getAllDepts

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📄 dbo.getAllInstructors

Created: 28 Feb 2022 Last updated: 28 Feb 2022

```
create proc getAllInstructors
as
select * from [Instructor]
```

Related objects
dbo.Instructor(TABLE)

📝 dbo.getAllQuestions

Created: 28 Feb 2022 Last updated: 28 Feb 2022

```
create proc getAllQuestions
as
select body,correct_answer,a2,a3,a4,type_of_question,crs_id from Question
```

Related objects

dbo.Question(TABLE)

dbo.getAllStudents

Created: 28 Feb 2022 Last updated: 28 Feb 2022

```
create proc getAllStudents
as
select * from [Student]
```

Related objects

dbo.Student(TABLE)

📄 dbo.getAllTopics

Created: 28 Feb 2022 Last updated: 28 Feb 2022

```
create proc getAllTopics
as
select * from Topic
```

Related objects

dbo.Topic(TABLE)

📋 dbo.getCourseById

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc getCourseById @id int
as
if exists (select * from Course where ID = @id)
select * from Course where ID = @id
else
select 'Sorry! this id does not exist'as 'message'
```

Related objects

dbo.Course(TABLE)

🖼 dbo.getCrsesThatStudentTake

Created: 01 Mar 2022 Last updated: 01 Mar 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@stdid	int	IN	

```
create proc getCrsesThatStudentTake @stdid int
as
if exists ( select * from Student_takes_Courses where Student_takes_Courses.student_id = @stdid)
select concat(firstname,' ', lastname) as [Student Name] , name, grade
from Student inner join Student_takes_Courses
on ID = Student_takes_Courses.student_id
inner join Course
on Student_takes_Courses.crs_id = Course.ID
where Student.ID = @stdid
else
select 'no such student id 'as 'message'
```

Related objects

dbo.Student(TABLE)

dbo.Course(TABLE)

dbo.Student_takes_Courses(TABLE)

dbo.getDeptByID

Created: 28 Feb 2022 Last updated: 28 Feb 2022

Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc getDeptByID @id int
as
if exists ( select * from Department where ID = @id )
select * from Department
where ID = @id
else
select 'This id does not exist'as 'message'
```

Related objects

dbo.Department(TABLE)

📇 dbo.getDeptsInsWorksIn

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📑 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc getDeptsInsWorksIn @id int
as
if exists (select * from Instructor_worksIn_Department where ins_id = @id)
select concat(Instructor.firstname, ' ',Instructor.lastname) as [Instructor name], Department.Name
from Department inner join Instructor_worksIn_Department
on Department.ID = Instructor_worksIn_Department.dept_id
inner join Instructor
on Instructor.ID = Instructor_worksIn_Department.ins_id
where Instructor_worksIn_Department.ins_id = @id
else
select 'ins id or crs id is invalid'as 'message'
```

Related objects

dbo.Instructor(TABLE)

dbo.Department(TABLE)

dbo.Instructor_worksIn_Department(TABLE)

📝 dbo.getInsById

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
CREATE proc getInsById @id int
as
if exists(select * from [Instructor]
where ID = @id)
select * from [Instructor]
where ID = @id
else
select 'this id doesnot exist'
```

Related objects

dbo.Instructor(TABLE)

📑 dbo.getInsCoursesByInsID

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📑 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc getInsCoursesByInsID @id int
as
if exists ( select * from Instructor_teaches_Courses where ins_id = @id)
select Course.name as [Course name]  , concat(Instructor.firstname,' ',Instructor.lastname) as
[Instructor Name]
from Course inner join Instructor_teaches_Courses
on Course.ID = Instructor_teaches_Courses.crs_id
inner join Instructor
on Instructor.ID = Instructor_teaches_Courses.ins_id
where ins_id = @id
```

Related objects

dbo.Instructor(TABLE)

dbo.Course(TABLE)

dbo.Instructor_teaches_Courses(TABLE)

(go to dbdesc.com to register)

📄 dbo.getInstructorCourses

Created: 28 Feb 2022 Last updated: 28 Feb 2022

```
create proc getInstructorCourses
as
select Course.name  , concat(Instructor.firstname,' ',Instructor.lastname) as [Instructor Name]
from Course inner join Instructor_teaches_Courses
on Course.ID = Instructor_teaches_Courses.crs_id
inner join Instructor
on Instructor.ID = Instructor teaches Courses.ins id
```

Related objects

dbo.Instructor(TABLE)

dbo.Course(TABLE)

dbo.Instructor_teaches_Courses(TABLE)

📰 dbo.getQuestById

Created: 28 Feb 2022 Last updated: 28 Feb 2022

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📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc getQuestById @id int
as
if exists (select * from Question where ID = @id)
select * from Question
where ID = @id
else
select 'Sorry this Id does not exist here'
```

Related objects

dbo.Question(TABLE)

📝 dbo.getStdsAnsToSpecQuest

Created: 01 Mar 2022 Last updated: 01 Mar 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@stdid	int	IN	

```
create proc getStdsAnsToSpecQuest @stdid int
as
if exists(select * from Students_answer_Questions where Std_ID = @stdid)
select concat(firstname,' ',lastname) as [Student Name],body as [question body],Student_Answer
from Student inner join Students_answer_Questions
on ID = Std_ID
inner join Question
on Question_ID = Question.ID
where Std_ID = @stdid
else
select 'invalid student id'as 'message'
```

Related objects

dbo.Question(TABLE)

dbo.Students_answer_Questions(TABLE)

dbo.Student(TABLE)

📑 dbo.getStudentByID

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc getStudentByID @id int
as
if exists(select * from Student where ID = @id)
select * from [Student]
where ID = @id
else
select 'This ID is not here'
```

Related objects

dbo.Student(TABLE)

dbo.getTopicByID

Created: 28 Feb 2022 Last updated: 28 Feb 2022

Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc getTopicByID @id int
as
if exists( select * from Topic where ID = @id)
select * from Topic where ID = @id
else
select 'ID does not exist'as 'message'
```

Related objects

dbo.Topic(TABLE)

▣ dbo.getUserByID

Created: 28 Feb 2022 Last updated: 28 Feb 2022

▣ Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@Id	int	IN	

```
create proc getUserByID @Id int
as
select * from [User]
where ID = @Id
```

Related objects

dbo.User(TABLE)

📝 dbo.getUsers
Created: 28 Feb 2022 Last updated: 28 Feb 2022

```
create proc getUsers
as
select * from [User]
```

Related objects
dbo.User(TABLE)

📝 dbo.getUsers
Created: 28 Feb 2022 Last updated: 28 Feb 2022

📝 dbo.removeCourse

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📑 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc removeCourse @id int
as
if exists (select * from Course where ID = @id)
delete from Course where ID = @id
else
select 'cannot delete! This ID does not exist'as 'message'
```

Related objects

dbo.Course(TABLE)

📝 dbo.removeFromCrsStdTake

Created: 01 Mar 2022 Last updated: 01 Mar 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@stdid	int	IN	
@crsToBeRemovedId	int	IN	

```
create proc removeFromCrsStdTake @stdid int, @crsToBeRemovedId int
as
if exists( select * from Student_takes_Courses where student_id = @stdid and crs_id = @crsToBeRemovedId)
delete from Student_takes_Courses where student_id = @stdid and crs_id = @crsToBeRemovedId
else
select 'invalid stdid or crsid'as 'message'
```

Related objects

dbo.Student_takes_Courses(TABLE)

📝 dbo.removeIns

Created: 28 Feb 2022 Last updated: 28 Feb 2022

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📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc removeIns @id int
as
if exists (select * from [Instructor]
where ID = @id)
delete from [Instructor] where ID = @id
else
select 'this Id doesnot exist in this table'
```

Related objects

dbo.Instructor(TABLE)

(go to
dbdesc.com to
register)

▣ dbo.removeStdAnswer

Created: 01 Mar 2022 Last updated: 01 Mar 2022

🔒 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@stdid	int	IN	
@questid	int	IN	

```
create proc removeStdAnswer @stdid int, @questid int
as
if exists(select * from Students_answer_Questions where Std_ID = @stdid and Question_ID = @questid)
delete from Students_answer_Questions where Std_ID = @stdid and Question_ID = @questid
else
select 'invalid std id or question id'as 'message'
```

Related objects

dbo.Students_answer_Questions(TABLE)

📇 dbo.removeTopic

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	

```
create proc removeTopic @id int
as
if exists ( select * from Topic where ID = @id )
delete from Topic where ID = @id
else
select 'Sorry! this id does not exist 'as 'message'
```

Related objects

dbo.Topic(TABLE)

🖾 dbo.rmoveInsFromDept

Created: 28 Feb 2022 Last updated: 28 Feb 2022

🖏 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@insid	int	IN	
@deptid	int	IN	

```
create proc rmoveInsFromDept @insid int, @deptid int
as
if exists(select * from Instructor_worksIn_Department where dept_id = @deptid)
delete from Instructor_worksIn_Department
where dept_id = @deptid and ins_id = @insid
else
select 'no such dept id or ins id'as 'message'
```

Related objects

dbo.Instructor_worksIn_Department(TABLE)

📝 dbo.unassignCourseToIns

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@crsid	int	IN	

```
CREATE proc unassignCourseToIns @id int, @crsid int
as
if exists(select * from Instructor_teaches_Courses where ins_id = @id and crs_id = @crsid)
delete from Instructor_teaches_Courses where ins_id = @id and crs_id = @crsid
else
select 'instructor id or course id is not valid'
```

Related objects

dbo.Instructor_teaches_Courses(TABLE)

🖾 dbo.updateCrsData

Created: 28 Feb 2022 Last updated: 28 Feb 2022

🖾 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@Crsname	varchar	IN	
@crsduration	int	IN	

```sql
create proc updateCrsData @id int, @Crsname varchar(25), @crsduration int = 20
as
if exists (select * from Course where ID = @id)
update Course set name = @Crsname, duration = @crsduration
where ID = @id
else
select 'This id doesnot exist'as 'message'
```

Related objects

dbo.Course(TABLE)

📝 dbo.updateDept

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📑 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@name	varchar	IN	
@mgrid	int	IN	

```
create proc updateDept @id int, @name varchar(25), @mgrid int
as
if exists(select * from Department where ID = @id)
update Department set Name = @name, mgr_id = @mgrid
where ID = @id
else
select 'Sorry this id does not exist'as 'message'
```

Related objects

dbo.Department(TABLE)

🖥 dbo.updateInsFname

Created: 28 Feb 2022 Last updated: 28 Feb 2022

🖳 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@fname	varchar	IN	

```
create proc updateInsFname @id int, @fname varchar(25)
as
begin try
update [Instructor] set firstname = @fname
where ID = @id
end try
begin catch
select 'This id does not exist here'
end catch
```

Related objects

dbo.Instructor(TABLE)

📰 dbo.updateQuest

Created: 28 Feb 2022 Last updated: 28 Feb 2022

🔣 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@QuestBody	varchar	IN	
@ansoone	varchar	IN	
@anstwo	varchar	IN	
@ansthree	varchar	IN	
@ansfour	varchar	IN	
@questtype	bit	IN	
@crsid	int	IN	

```
create proc updateQuest @id int , @QuestBody varchar(500), @ansoone varchar(100), @anstwo varchar(100),
@ansthree varchar(100),@ansfour varchar(100), @questtype bit ,@crsid int = 3
as
if exists (select * from Question where ID = @id)
update Question set body = @QuestBody, correct_answer = @ansoone, a2 = @anstwo, a3 = @ansthree, a4 =
@ansfour, type_of_question = @questtype
where ID = @id
else
select 'Sorry this Id does not exist here'as 'message'
```

Related objects
dbo.Question(TABLE)

📑 dbo.updateStdAnswer

Created: 01 Mar 2022 Last updated: 01 Mar 2022

🔣 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@stdid	int	IN	
@questid	int	IN	
@newAnswer	varchar	IN	

```sql
create proc updateStdAnswer @stdid int, @questid int , @newAnswer varchar(100)
as
if exists(select * from Students_answer_Questions where Std_ID = @stdid and Question_ID = @questid)
update Students_answer_Questions set Student_Answer = @newAnswer
where Std_ID = @stdid and Question_ID = @questid
else
select 'invalid student id or question id'as 'message'
```

Related objects

dbo.Students_answer_Questions(TABLE)

📝 dbo.updateStdFname

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@fname	varchar	IN	

```
create proc updateStdFname @id int, @fname varchar(25)
as
if exists(select * from [Student] where ID = @id)
update [Student] set firstname = @fname
where ID = @id
else
select 'Sorry this id does not exist here'as 'message'
```

Related objects

dbo.Student(TABLE)

📝 dbo.updateTopicName

Created: 28 Feb 2022 Last updated: 28 Feb 2022

📇 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@id	int	IN	
@topname	varchar	IN	

```
create proc updateTopicName @id int, @topname varchar(25)
as
if exists (select * from Topic where ID = @id)
update Topic set name = @topname
where ID = @id
else
select 'Sorry! This id does not exist'as 'message'
```

Related objects

dbo.Topic(TABLE)

🖻 dbo.updateUserName
Created: 28 Feb 2022 Last updated: 28 Feb 2022

🖻 Parameters

PARAMETER NAME	DATA TYPE	MODE	DESCRIPTION
@email	varchar	IN	
@newusername	varchar	IN	

```
CREATE proc updateUserName @email varchar(50), @newusername varchar(50)
as
begin try
update [User]
set username = @newusername
where email = @email
end try
begin catch
select 'email doesnot exist'
end catch
```

Related objects
dbo.User(TABLE)

Examination System database documentation - XML Schemas

🗂 sys.sys

Created: 13 Apr 2009 Last updated: 22 Aug 2017

📇 Components

COMPONENT NAME	TYPE	DERIVATION	NAMESPACE
anySimpleType	ANY_SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
anyType	ANY_TYPE	NONE	http://www.w3.org/2001/XMLSchema
base	ATTRIBUTE	NONE	http://www.w3.org/XML/1998/namespace
base64Encoded	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
clrTypeName	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
lang	ATTRIBUTE	NONE	http://www.w3.org/XML/1998/namespace
localeId	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
maxLength	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
precision	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
scale	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
space	ATTRIBUTE	NONE	http://www.w3.org/XML/1998/namespace
sqlCollationVersion	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
sqlCompareOptions	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
sqlDbType	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
sqlSortId	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
sqlTypeAlias	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
supplementaryCharacters	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
xmlSchemaCollection	ATTRIBUTE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
xml	COMPLEX_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
ENTITIES	LIST_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
IDREFS	LIST_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
NMTOKENS	LIST_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
sqlCompareOptionsList	LIST_TYPE	NONE	http://schemas.microsoft.com/sqlserver/2004/sqltypes
NOTATION	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
QName	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
anyURI	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
base64Binary	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
boolean	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
date	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
dateTime	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
decimal	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
double	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
duration	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
float	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
gDay	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
gMonth	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
gMonthDay	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
gYear	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
gYearMonth	PRIMIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
hexBinary	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
string	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
time	PRIMITIVE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
ENTITY	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema

ID	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
IDREF	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
NCName	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
NMTOKEN	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
Name	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
bigint	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
binary	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
bit	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
byte	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
char	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
date	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
datetime	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
datetime2	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
datetimeoffset	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
dbobject	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
decimal	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
float	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
hierarchyid	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
image	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
int	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
int	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
integer	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
language	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
long	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
money	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
nchar	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
negativeInteger	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
nonNegativeInteger	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
nonPositiveInteger	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
normalizedString	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
ntext	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
numeric	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
nvarchar	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
positiveInteger	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
real	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
short	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
smalldatetime	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
smallint	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
smallmoney	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
sqlCompareOptionsEnum	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
sqlDbTypeEnum	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
text	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
time	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
timestamp	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
timestampNumeric	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
tinyint	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
token	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
uniqueidentifier	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
unsignedByte	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
unsignedInt	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
unsignedLong	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema
unsignedShort	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/2001/XMLSchema

varbinary	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
varchar	SIMPLE_TYPE	RESTRICTION	http://schemas.microsoft.com/sqlserver/2004/sqltypes
xmlSpaceEnum	SIMPLE_TYPE	RESTRICTION	http://www.w3.org/XML/1998/namespace

Microsoft.SqlServer.Types

Created: 22 Aug 2017 Last updated: 22 Aug 2017

CLR NAME: microsoft.sqlserver.types, version=14.0.0.0, culture=neutral, publickeytoken=89845dcd8080cc91, processorarchitecture=msil

PERMISSION: UNSAFE_ACCESS

DESCRIPTION:

User name	Login name	Created	Roles	User description
dbo	DESKTOP-F7CTSK1\Computec	4/8/2003	db_owner	

Role name	App role	Users with this role	Role description
db_accessadmin			
db_backupoperator			
db_datareader			
db_datawriter			
db_ddladmin			
db_denydatareader			
db_denydatawriter			
db_owner		dbo	
db_securityadmin			
public			