

DESKTOP-FIDTAKR\ABDDE

Servers

Servers 1

DESKTOP-FIDTAKR\ABDDE

DESKTOP-FIDTAKR\ABDDE

Databases 1



Properties

Name	Value
Product	Microsoft SQL Server
Version Level	RTM
Edition	Express Edition (64-bit)
Version	15.0.2095.3
Language	English (United States)
Collation	Arabic_CI_AS
Platform	NT x64
OS Version	6.3 (19044)
Processors	4
Physical Memory (Mb)	8105
Clustered	False
Root Directory	C:\Program Files\Microsoft SQL Server\MSSQL15.ABDDEE\MSSQL

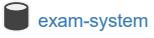
Settings

Name	Value
Default data file path	C:\Program Files\Microsoft SQL Server\MSSQL15.ABDDEE\MSSQL\DATA
Default log file path	C:\Program Files\Microsoft SQL Server\MSSQL15.ABDDEE\MSSQL\DATA
Default backup file path	C:\Program Files\Microsoft SQL Server\MSSQL15.ABDDEE\MSSQL\Backup
Recovery Interval (minutes)	0
Default index fill factor (%)	0
Default backup media retention (days)	0
Nested triggers enabled	True
Allow triggers to fire others	True
Default language	us_english
Default fulltext language	us_english
Default fulltext language LCID	1033
Network packet size	4096
Two digit year cutoff	2049
Max text replication size (bytes)	65536
Locks	0

Blocked process threshold	0
Cursor threshold	-1
Cost threshold for parallelism	5
Scans and runs startup procedures	False
Transform noise words	False
Filestream access level	Disabled
Optimize for 'ad hoc' workloads	False
Remote login timeout (sec)	10

User databases

User databases 1



exam-system

Description

Properties

Name	Value
SQL Server version	Microsoft SQL Server RTM 15.0.2095.3
Compatibility level	SQL Server 2017
Last backup time	7/19/2022 9:58:39 AM
Last backup time of transaction log	N/A
Default index fill factor (%)	0
Creation date	7/20/2022 5:24:10 PM
Number of Users	4
Database Encryption Enabled	False
Database Encryption Algorithm	N/A
Database status	ONLINE
Max size	0 B
Database size (Mb)	16
Unallocated data space (Mb)	3.12
Default language	N/A
Default fulltext language	us_english

Object Types 5

-  Tables
-  Stored Procedures
-  Scalar-Valued Functions
-  Database Roles
-  Schemas

Options

Name	Value
Database collation	SQL_Latin1_General_CI_AS
Restrict access	MULTI_USER
Cleanly shutdown	False
Supplemental logging enabled	False
Is Read-Only	False
Auto close	False
Auto shrink	False

Database is read-only for restore log	False
Is Snapshot	False
Snapshot isolation state	False
Read committed snapshot on	False
Recovery model	FULL
Page verify option	Checksum
Auto create statistics	True
Auto update statistics	True
Auto update statistics asynchronously	False
ANSI NULL default	False
ANSI NULL enabled	False
ANSI padding enabled	False
ANSI warnings enabled	False
Arithmetic abort enabled	False
Concatenating NULL yields NULL	False
Numeric roundabort enabled	False
Quoted Identifier ON	False
Recursive triggers enabled	False
Close cursors on commit	False
Local cursor by default	False
Fulltext enabled	True
Trustworthy	False
Database chaining	False
Forced parameterization	False
Master key encrypted by server	False
Published	False
Merge published	False
Is distribution database	False
Sync with backup	False
Service broker GUID	3671b726-ae19-409c-bb9e-fba279f23e84
Service broker enabled	False
Log reuse wait	LogBackup
Date correlation	False
Change data capture enabled	False
Honor broker priority	False
Database owner	DESKTOP-FIDTAKR\abdde
Delayed durability	Disabled

Containment type	False
------------------	-------

Database Files ②

Name	Type	Size	Max size	Autogrowth	File Name
exam-system	Rows	8,192 KB	N/A	65,536 KB	C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\DATA\exam-system.mdf
exam-system_log	Log	8,192 KB	2,147,483,648 KB	65,536 KB	C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\DATA\exam-system_log.ldf

Tables

Objects 15

Name	Description
dbo.course	
dbo.courses_selected	
dbo.department	
dbo.exam	
dbo.exam_taken	
dbo.ins_course	
dbo.instructor	
dbo.login_student	
dbo.ques_choices	
dbo.question	
dbo.st_course	
dbo.st_phone	
dbo.student	
dbo.sysdiagrams	
dbo.topic	

dbo.course

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	25
Created	6/18/2022 6:40:03 PM
Last Modified	6/25/2022 3:54:09 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	crs_id	int	4	10	0	True				False	False	
	crs_name	varchar	100	0	0	False				False	False	
	crs_dur	int	4	10	0	False				False	False	
CK	dept_id	int	4	10	0	False				False	False	

Indexes

Key	Name	Columns	Unique	Type	Description
PK	PK_course	crs_id	True		

Foreign Keys

Name	Columns	Description

crs_dept_fk	dept_id
-------------	---------

SQL Script

```
CREATE TABLE dbo.course (
    crs_id int NOT NULL,
    crs_name varchar(100) NULL,
    crs_dur int NULL,
    dept_id int NULL,
    CONSTRAINT PK_course PRIMARY KEY CLUSTERED (crs_id)
)
ON [PRIMARY]
GO

ALTER TABLE dbo.course
ADD CONSTRAINT crs_dept_fk FOREIGN KEY (dept_id) REFERENCES dbo.department (dept_id)
GO
```

Depends On ②

-  [dbo.department](#)
-  [exam-system](#)

Used By ⑪

-  [dbo.exam](#)
-  [dbo.ins_course](#)
-  [dbo.question](#)
-  [dbo.st_course](#)
-  [dbo.topic](#)
-  [dbo.get_course_topics](#)
-  [dbo.get_instructor_course](#)
-  [dbo.get_student_grades](#)
-  [dbo.quest_sql](#)
-  [dbo.rand_ques](#)
-  [dbo.saving_exam_id](#)

dbo.courses_selected

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	56
Created	6/18/2022 9:51:47 PM
Last Modified	6/18/2022 9:51:47 PM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	id	int	4	10	0	True	1 - 1			False	False	
	course_selected	nvarchar	50	0	0	False				False	False	

Indexes

Key	Name	Columns	Unique	Type	Description
PK	PK_courses__3213E83F0EBD7E17	id	True		

SQL Script

```
CREATE TABLE dbo.courses_selected (
    id int IDENTITY,
    course_selected nvarchar(50) NULL,
    PRIMARY KEY CLUSTERED (id)
)
```

```
ON [PRIMARY]  
GO
```

Depends On ①



exam-system

Used By ④

- [dbo.exam_name](#)
- [dbo.insert_selected_course](#)
- [dbo.quest_sql](#)
- [dbo.saving_exam_id](#)

dbo.department

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	6
Created	6/18/2022 6:39:18 PM
Last Modified	6/25/2022 3:35:12 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	dept_id	int	4	10	0	True				False	False	
	dept_name	varchar	100	0	0	False				False	False	
	dept_mgr	int	4	10	0	False				False	False	

Indexes

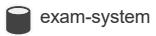
Key	Name	Columns	Unique	Type	Description
PK	PK_department	dept_id	True		

SQL Script

```
CREATE TABLE dbo.department (
    dept_id int NOT NULL,
    dept_name varchar(100) NULL,
```

```
dept_mgr int NULL,  
CONSTRAINT PK_department PRIMARY KEY CLUSTERED (dept_id)  
)  
ON [PRIMARY]  
GO
```

Depends On ①



exam-system

Used By ①



dbo.course

dbo.exam

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	43
Created	6/25/2022 3:54:09 AM
Last Modified	6/25/2022 3:54:09 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	exam_id	int	4	10	0	True	1 - 1			False	False	
	exam_mark	int	4	10	0	False				False	False	
	crs_id	int	4	10	0	False				False	False	
	st_mark	int	4	10	0	False				False	False	
	exam_title	nvarchar	50	0	0	False				False	False	

Indexes

Key	Name	Columns	Unique	Type	Description
	PK_exam	exam_id	True		

Foreign Keys

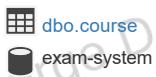
Name	Columns	Description
ex_fk	crs_id	

SQL Script

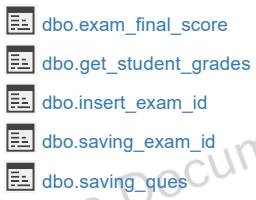
```
CREATE TABLE dbo.exam (
    exam_id int IDENTITY,
    exam_mark int NULL,
    crs_id int NULL,
    st_mark int NULL,
    exam_title nvarchar(50) NULL,
    CONSTRAINT PK_exam PRIMARY KEY CLUSTERED (exam_id)
)
ON [PRIMARY]
GO

ALTER TABLE dbo.exam
ADD CONSTRAINT ex_fk FOREIGN KEY (crs_id) REFERENCES dbo.course (crs_id)
GO
```

Depends On ②



Used By ⑤



dbo.exam_taken

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	380
Created	6/18/2022 6:43:47 PM
Last Modified	7/19/2022 4:34:03 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	exam_id	int	4	10	0	True				False	False	
PK	st_id	int	4	10	0	True				False	False	
PK	ques_id	int	4	10	0	True				False	False	
	answer	varchar	225	0	0	False				False	False	
	answer_correct	int	4	10	0	False				False	False	

Indexes

Key	Name	Columns	Unique	Type	Description

	PK_exam_taken	exam_id, st_id, ques_id	True		
--	---------------	-------------------------	------	--	--

Foreign Keys

Name	Columns	Description
ex_t_fk3	ques_id	

SQL Script

```

CREATE TABLE dbo.exam_taken (
    exam_id int NOT NULL,
    st_id int NOT NULL,
    ques_id int NOT NULL,
    answer varchar(225) NULL,
    answer_correct int NULL,
    CONSTRAINT PK_exam_taken PRIMARY KEY CLUSTERED (exam_id, st_id, ques_id)
)
ON [PRIMARY]
GO

ALTER TABLE dbo.exam_taken
ADD CONSTRAINT ex_t_fk3 FOREIGN KEY (ques_id) REFERENCES dbo.question (ques_id)
GO

```

Depends On ②

- dbo.question
- exam-system

Used By ⑥

- dbo.exam_final_score
- dbo.exam_score
- dbo.get_exam_ques
- dbo.get_student_exam_answer
- dbo.get_student_grades
- dbo.saving_ques

dbo.ins_course

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	64
Created	6/18/2022 6:40:34 PM
Last Modified	6/25/2022 3:42:31 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ins_id	int	4	10	0	True				False	False	
	crs_id	int	4	10	0	True				False	False	

Indexes

Key	Name	Columns	Unique	Type	Description
	PK_ins_course	ins_id, crs_id	True		

Foreign Keys

Name	Columns	Description

ins_cr1	ins_id
ins_cr2	crs_id

SQL Script

```
CREATE TABLE dbo.ins_course (
    ins_id int NOT NULL,
    crs_id int NOT NULL,
    CONSTRAINT PK_ins_course PRIMARY KEY CLUSTERED (ins_id, crs_id)
)
ON [PRIMARY]
GO

ALTER TABLE dbo.ins_course
ADD CONSTRAINT ins_cr1 FOREIGN KEY (ins_id) REFERENCES dbo.instructor (ins_id)
GO

ALTER TABLE dbo.ins_course
ADD CONSTRAINT ins_cr2 FOREIGN KEY (crs_id) REFERENCES dbo.course (crs_id)
GO
```

Depends On ②

-  dbo.course
-  dbo.instructor

Used By ①

-  dbo.get_instructor_course

dbo.instructor

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	20
Created	6/18/2022 6:39:13 PM
Last Modified	7/3/2022 3:24:32 PM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	ins_id	int	4	10	0	True				False	False	
	ins_fname	varchar	50	0	0	False				False	False	
	ins_lname	varchar	50	0	0	False				False	False	
	gender	varchar	10	0	0	False				False	False	
	salary	int	4	10	0	False				False	False	
	ins_birthdate	date	3	10	0	False				False	False	
	dept_id	int	4	10	0	False				False	False	
	ins_login	varchar	100	0	0	False				False	False	
	password	varchar	50	0	0	False				False	False	

Indexes

Key	Name	Columns	Unique	Type	Description
	PK_instructor	ins_id	True		

SQL Script

```

CREATE TABLE dbo.instructor (
    ins_id int NOT NULL,
    ins_fname varchar(50) NULL,
    ins_lname varchar(50) NULL,
    gender varchar(10) NULL,
    salary int NULL,
    ins_birthdate date NULL,
    dept_id int NULL,
    ins_login varchar(100) NULL,
    password varchar(50) NULL,
    CONSTRAINT PK_instructor PRIMARY KEY CLUSTERED (ins_id)
)
ON [PRIMARY]
GO

```

Depends On ①



exam-system

Used By ②



dbo.ins_course



dbo.login_ins

dbo.login_student

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	58
Created	6/18/2022 9:29:39 PM
Last Modified	6/18/2022 9:29:39 PM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	id	int	4	10	0	True	1 - 1			False	False	
	login_user	varchar	50	0	0	False				False	False	
	password	varchar	50	0	0	False				False	False	

Indexes

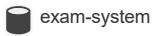
Key	Name	Columns	Unique	Type	Description
PK	PK_login_st_3213E83FAA355084	id	True		

SQL Script

```
CREATE TABLE dbo.login_student (
    id int IDENTITY,
    login_user varchar(50) NULL,
```

```
password varchar(50) NULL,  
PRIMARY KEY CLUSTERED (id)  
)  
ON [PRIMARY]  
GO
```

Depends On ①



exam-system

Used By ④

- [dbo.get_st_login_id](#)
- [dbo.saving_exam_id](#)
- [dbo.saving_ques](#)
- [dbo.show_name](#)

dbo.ques_choices

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	True
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	70
Created	6/18/2022 6:42:43 PM
Last Modified	6/25/2022 3:42:43 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	ques_id	int	4	10	0	True				False	False	
	ques_choice1	nvarchar	120	0	0	False				False	False	
	ques_choice2	nvarchar	120	0	0	False				False	False	
	ques_choice3	nvarchar	120	0	0	False				False	False	
	ques_choice4	nvarchar	120	0	0	False				False	False	

Foreign Keys

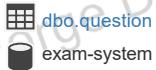
Name	Columns	Description
chcs_fk	ques_id	

SQL Script

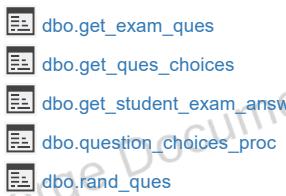
```
CREATE TABLE dbo.ques_choices (
    ques_id int NOT NULL,
```

```
ques_choice1 nvarchar(120) NULL,  
ques_choice2 nvarchar(120) NULL,  
ques_choice3 nvarchar(120) NULL,  
ques_choice4 nvarchar(120) NULL  
)  
ON [PRIMARY]  
GO  
  
ALTER TABLE dbo.ques_choices  
ADD CONSTRAINT chcs_fk FOREIGN KEY (ques_id) REFERENCES dbo.question (ques_id)  
GO
```

Depends On ②



Used By ⑤



dbo.question

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	71
Created	6/18/2022 6:42:23 PM
Last Modified	6/25/2022 3:42:56 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	ques_id	int	4	10	0	True				False	False	
	ques_type	varchar	10	0	0	False				False	False	
	ques_header	varchar	225	0	0	False				False	False	
	ques_answer	varchar	225	0	0	False				False	False	
	ques_mark	int	4	10	0	False				False	False	
CK	crs_id	int	4	10	0	False				False	False	

Indexes

Key	Name	Columns	Unique	Type	Description
PK	PK_question	ques_id	True		

Foreign Keys

Name	Columns	Description
ques_fk	crs_id	

SQL Script

```
CREATE TABLE dbo.question (
    ques_id int NOT NULL,
    ques_type varchar(10) NULL,
    ques_header varchar(225) NULL,
    ques_answer varchar(225) NULL,
    ques_mark int NULL,
    crs_id int NULL,
    CONSTRAINT PK_question PRIMARY KEY CLUSTERED (ques_id)
)
ON [PRIMARY]
GO

ALTER TABLE dbo.question
ADD CONSTRAINT ques_fk FOREIGN KEY (crs_id) REFERENCES dbo.course (crs_id)
GO
```

Depends On ②

-  dbo.course
-  exam-system

Used By 9

-  dbo.exam_taken
-  dbo.ques_choices
-  dbo.get_exam_ques
-  dbo.get_ques_choices
-  dbo.get_student_exam_answer
-  dbo.quest_sql
-  dbo.question_choices_proc
-  dbo.rand_ques
-  dbo.saving_ques

dbo.st_course

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	120
Created	6/18/2022 6:41:25 PM
Last Modified	7/19/2022 4:34:03 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	st_id	int	4	10	0	True				False	False	
	crs_id	int	4	10	0	True				False	False	

Indexes

Key	Name	Columns	Unique	Type	Description
	PK_stu_course	st_id, crs_id	True		

Foreign Keys

Name	Columns	Description

st_crs_fk2	crs_id
------------	--------

SQL Script

```
CREATE TABLE dbo.st_course (
    st_id int NOT NULL,
    crs_id int NOT NULL,
    CONSTRAINT PK_stu_course PRIMARY KEY CLUSTERED (st_id, crs_id)
)
ON [PRIMARY]
GO

ALTER TABLE dbo.st_course
ADD CONSTRAINT st_crs_fk2 FOREIGN KEY (crs_id) REFERENCES dbo.course (crs_id)
GO
```

Depends On ①

 dbo.course

Used By ①

 dbo.get_instructor_course

dbo.st_phone

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	20
Created	6/18/2022 6:41:01 PM
Last Modified	7/19/2022 4:34:04 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	st_id	int	4	10	0	True				False	False	
	phone	int	4	10	0	True				False	False	

Indexes

Key	Name	Columns	Unique	Type	Description
	PK_st_phone	st_id, phone	True		

SQL Script

```
CREATE TABLE dbo.st_phone (
    st_id int NOT NULL,
    phone int NOT NULL,
    CONSTRAINT PK_st_phone PRIMARY KEY CLUSTERED (st_id, phone)
```

```
)  
ON [PRIMARY]  
GO
```

Depends On

No items found

Used By

No items found

dbo.student

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	24
Created	7/1/2022 10:42:21 PM
Last Modified	7/19/2022 4:34:03 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	st_id	int	4	10	0	True	1 - 1			False	False	
	st_fname	varchar	50	0	0	False				False	False	
	st_mname	varchar	50	0	0	False				False	False	
	st_lname	varchar	50	0	0	False				False	False	
	st_datebirth	date	3	10	0	False				False	False	
	gender	varchar	10	0	0	False				False	False	
	street	varchar	50	0	0	False				False	False	
	zip	int	4	10	0	False				False	False	
	city	varchar	50	0	0	False				False	False	
	fb_mail	varchar	50	0	0	False				False	False	

	user_login	varchar	50	0	0	False				False	False
	password	varchar	50	0	0	False				False	False
	dept_id	int	4	10	0	False				False	False

Indexes

Key	Name	Columns	Unique	Type	Description
	PK_student_1	st_id	True		

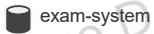
SQL Script

```

CREATE TABLE dbo.student (
    st_id int IDENTITY,
    st_fname varchar(50) NULL,
    st_mname varchar(50) NULL,
    st_lname varchar(50) NULL,
    st_datebirth date NULL,
    gender varchar(10) NULL,
    street varchar(50) NULL,
    zip int NULL,
    city varchar(50) NULL,
    fb_mail varchar(50) NULL,
    user_login varchar(50) NULL,
    password varchar(50) NULL,
    dept_id int NULL,
    CONSTRAINT PK_student_1 PRIMARY KEY CLUSTERED (st_id)
)
ON [PRIMARY]
GO

```

Depends On ①



exam-system

Used By ⑦

-  dbo.get_st_login_id
-  dbo.get_student_grades
-  dbo.get_student_info
-  dbo.login_user
-  dbo.saving_ques
-  dbo.saving_regis_data
-  dbo.show_name

dbo.sysdiagrams

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	1
Created	6/18/2022 7:58:19 PM
Last Modified	6/18/2022 7:58:19 PM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	name	sysname	128	0	0	True				False	False	
PK	principal_id	int	4	10	0	True				False	False	
PK	diagram_id	int	4	10	0	True	1 - 1			False	False	
	version	int	4	10	0	False				False	False	
	definition	varbinary		0	0	False				False	False	

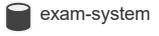
Indexes

Key	Name	Columns	Unique	Type	Description
PK	PK__sysdiagr__C2B05B61B6998DAE	diagram_id	True		
PK	UK_principal_name	principal_id, name	True		

SQL Script

```
CREATE TABLE dbo.sysdiagrams (
    name sysname NOT NULL,
    principal_id int NOT NULL,
    diagram_id int IDENTITY,
    version int NULL,
    definition varbinary(max) NULL,
    PRIMARY KEY CLUSTERED (diagram_id),
    CONSTRAINT UK_principal_name UNIQUE (principal_id, name)
)
ON [PRIMARY]
TEXTIMAGE_ON [PRIMARY]
GO
```

Depends On ①



exam-system

Used By

No items found

dbo.topic

Description

Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	200
Created	6/18/2022 6:41:43 PM
Last Modified	6/25/2022 3:43:43 AM

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
PK	topic_id	int	4	10	0	True				False	False	
	topic_name	varchar	50	0	0	False				False	False	
CK	crs_id	int	4	10	0	False				False	False	

Indexes

Key	Name	Columns	Unique	Type	Description
PK	PK_topic	topic_id	True		

Foreign Keys

Name	Columns	Description
top_fk	crs_id	

SQL Script

```
CREATE TABLE dbo.topic (
    topic_id int NOT NULL,
    topic_name varchar(50) NULL,
    crs_id int NULL,
    CONSTRAINT PK_topic PRIMARY KEY CLUSTERED (topic_id)
)
ON [PRIMARY]
GO

ALTER TABLE dbo.topic
ADD CONSTRAINT top_fk FOREIGN KEY (crs_id) REFERENCES dbo.course (crs_id)
GO
```

Depends On ②

-  [dbo.course](#)
-  [exam-system](#)

Used By ①

-  [dbo.get_course_topics](#)

Programmability

Objects 2

 Stored Procedures

 Functions

Stored Procedures

Objects 25

Name	Description
dbo.exam_final_score	
dbo.exam_name	
dbo.exam_name_out	
dbo.exam_score	
dbo.get_course_topics	
dbo.get_exam_ques	
dbo.get_instructor_course	
dbo.get_ques_choices	
dbo.get_st_login_id	
dbo.get_student_exam_answer	
dbo.get_student_grades	
dbo.get_student_info	
dbo.insert_exam_id	
dbo.insert_selected_course	
dbo.login_ins	
dbo.login_user	
dbo.quest_sql	
dbo.quest_sql_out	
dbo.question_choices_proc	
dbo.rand_ques	
dbo.saving_exam_id	
dbo.saving_ques	
dbo.saving_regis_data	
dbo.show_name	
dbo.show_name2	

dbo.exam_final_score

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@st_mark	int	4	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER proc dbo.exam_final_score @st_mark int output
as
begin

declare @exam_id int
set @exam_id = ( select top(1) exam_id  from exam order by exam_id desc )
declare @final_result int
set @final_result = ( select sum( answer_correct ) from exam_taken where exam_id = @exam_id )

update exam
set st_mark = @final_result
where exam_id = @exam_id

select @st_mark = st_mark
from exam
where exam_id = @exam_id
end
GO

```

Depends On ②

-  dbo.exam
-  dbo.exam_taken

Used By

No items found

dbo.exam_name

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@z	varchar	50	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.exam_name @z varchar(50) output
as
select top 1 course_selected from courses_selected order by id desc
GO
```

Depends On ①



Used By ①



dbo.exam_name_out

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER procedure dbo.exam_name_out
as
declare @z varchar(50)
execute exam_name @z out
print @z
GO
```

Depends On ①



Used By

No items found

dbo.exam_score

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@exam_id	int	4	
@st_id	int	4	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.exam_score (@exam_id int , @st_id int)
as
select sum(answer_correct)
from exam_taken
where exam_id = @exam_id and st_id = @st_id
GO
```

Depends On ①



[dbo.exam_taken](#)

Used By

No items found

dbo.get_course_topics

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@course_id	int	4	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.get_course_topics (@course_id int )
as
begin
SELECT      course.crs_id, course.crs_name, topic.topic_name, course.crs_dur
FROM        course INNER JOIN
                      topic ON course.crs_id = topic.crs_id
WHERE       (topic.crs_id = @course_id)
end
GO

```

Depends On ②

-  dbo.course
-  dbo.topic

Used By

No items found

dbo.get_exam_ques

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@ex_id	int	4	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.get_exam_ques (@ex_id int )
as
begin

select exam_id , ques_header , ques_choice1 , ques_choice2 , ques_choice3 , ques_choice4
from exam_taken
join question
on exam_taken.ques_id = question.ques_id
join ques_choices
on ques_choices.ques_id = question.ques_id
where exam_id = @ex_id

end
GO

```

Depends On 3

-  dbo.exam_taken
-  dbo.question
-  dbo.ques_choices

Used By

No items found

dbo.get_instructor_course

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@ins_id	int	4	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.get_instructor_course(@ins_id int )
as
begin
select ins_id,crs_name , COUNT(st_id) as student_number
from ins_course
join course
on ins_course.crs_id= course.crs_id
join st_course
on st_course.crs_id = course.crs_id
where ins_id = @ins_id
group by ins_id , crs_name

end
GO

```

Depends On 3

-  dbo.ins_course
-  dbo.course
-  dbo.st_course

Used By

No items found

dbo.get_ques_choices

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@ques_id	int	4	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.get_ques_choices @ques_id int
as

select ques_header ,
ques_choice1 , ques_choice2 , ques_choice3 , ques_choice4
from question
join ques_choices
on question.ques_id = ques_choices.ques_id
where question.ques_id = @ques_id
GO
```

Depends On ②

-  dbo.question
-  dbo.ques_choices

Used By

No items found

dbo.get_st_login_id

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@st_id	int	4	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.get_st_login_id @st_id int output
as
declare @login_user varchar (100);

set @login_user = (select top 1 login_user from login_student order by id desc )
set @st_id = ( select st_id from student where user_login = @login_user);

select @st_id = st_id from student where user_login = @login_user
GO

```

Depends On 3

-  dbo.login_user
-  dbo.login_student
-  dbo.student

Used By

No items found

dbo.get_student_exam_answer

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@st_id	int	4	
@ex_id	int	4	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER proc dbo.get_student_exam_answer (@st_id int, @ex_id int )
as
begin

select exam_id , ques_header , ques_choice1 , ques_choice2 , ques_choice3 , ques_choice4 , answer , ques_answer ,
answer_correct
from exam_taken
join question
on exam_taken.ques_id = question.ques_id
join ques_choices
on ques_choices.ques_id = question.ques_id
where st_id =@st_id and exam_id =@ex_id

end
GO

```

Depends On ③

-  dbo.exam_taken
-  dbo.question
-  dbo.ques_choices

Used By

No items found

dbo.get_student_grades

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@st_id	int	4	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.get_student_grades(@st_id int )
as
begin
SELECT      student.st_fname, course.crs_name, max(exam.st_mark) as st_mark, exam.exam_id
FROM        exam
JOIN exam_taken
ON exam_taken.exam_id = exam.exam_id
join course
ON exam.crs_id = course.crs_id INNER JOIN
student ON student.st_id = exam_taken.st_id
WHERE       exam_taken.st_id =@st_id
group by exam.exam_id , st_fname , course.crs_name

end
GO

```

Depends On ④

-  dbo.exam
-  dbo.exam_taken
-  dbo.course
-  dbo.student

Used By

No items found

dbo.get_student_info

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@dep	int	4	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER procedure dbo.get_student_info (@dep int)
as
select * from student
where dept_id = @dep
GO
```

Depends On ①



dbo.student

Used By

No items found

dbo.insert_exam_id

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@crs_id	varchar	100	
@exam_title	varchar	100	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.insert_exam_id (@crs_id varchar(100) , @exam_title varchar(100))
as

INSERT INTO exam
([exam_mark]
,[crs_id]
,[st_mark]
,[exam_title])
VALUES (10,
@crs_id,
null,
@exam_title)
GO
```

Depends On ①



dbo.exam

Used By

No items found

dbo.insert_selected_course

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@course_name	nvarchar	50	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.insert_selected_course @course_name nvarchar(50)
as
INSERT INTO courses_selected values (@course_name)
GO
```

Depends On ①



Used By

No items found

dbo.login_ins

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@ins_login	varchar	50	
@password	varchar	50	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER proc dbo.login_ins @ins_login varchar(50), @password varchar(50)
as
select count(*) from Instructor where ins_login = @ins_login and password = @password
GO
```

Depends On ①



Used By

No items found

dbo.login_user

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@username	varchar	50	
@password	varchar	50	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.login_user @username varchar(50), @password varchar(50)
as
select count(*) from student where user_login = @username and password = @password
GO
```

Depends On ①



Used By ③

-  dbo.get_st_login_id
-  dbo.saving_exam_id
-  dbo.saving_ques

dbo.quest_sql

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@z	varchar	50	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.quest_sql @z varchar(50) output
as
begin
select ques_header from question where crs_id in
(select crs_id from course where crs_Name in
(select top 1 course_selected from courses_selected order by id desc)) order by NEWID()
end
GO
```

Depends On ③

-  dbo.question
-  dbo.course
-  dbo.courses_selected

Used By ①

-  dbo.quest_sql_out

dbo.quest_sql_out

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER procedure dbo.quest_sql_out
as
declare @z varchar(50)
execute quest_sql @z out
print @z
GO
```

Depends On ①



Used By

No items found

dbo.question_choices_proc

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@label	varchar	200	
@1st_choice	nvarchar	120	
@2nd_choice	nvarchar	120	
@3rd_choice	nvarchar	120	
@4th_choice	nvarchar	120	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.question_choices_proc @label varchar(200), @1st_choice nvarchar(120) output,
@2nd_choice nvarchar(120) output,
@3rd_choice nvarchar(120) output,
@4th_choice nvarchar(120) output
as
select @1st_choice = ques_choice1 from ques_choices where ques_id in
(select ques_id from question where ques_header = @label)

select @2nd_choice = ques_choice2 from ques_choices where ques_id in
(select ques_id from Question where ques_header = @label)

select @3rd_choice = ques_choice3 from ques_choices where ques_id in
(select ques_id from Question where ques_header = @label)

select @4th_choice = ques_choice4 from ques_choices where ques_id in
(select ques_id from Question where ques_header = @label)
GO

```

Depends On ②

-  dbo ques_choices
-  dbo question

Used By

No items found

dbo.rand_ques

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@crs_name	varchar	50	
@mcq_no	int	4	
@tf_no	int	4	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER procedure dbo.rand_ques ( @crs_name varchar(50),@mcq_no int, @tf_no int ) as
begin

select * from
(select top(@mcq_no) ques_header,ques_choice1,ques_choice2 , ques_choice3 , ques_choice4 , q.ques_id
from Question q
join ques_choices ch
on q.ques_id = ch.ques_id
join Course c
on c.crs_id = q.crs_id
where crs_name = @crs_name
and ques_type = 'mcq'
order by NEWID() ) t1
union
select * from
(select top(@tf_no) ques_header,ques_choice1,ques_choice2 , ques_choice3 , ques_choice4 , q.ques_id
from Question q
join ques_choices ch
on q.ques_id = ch.ques_id
join Course c
on c.crs_id = q.crs_id
where crs_name = @crs_name
and ques_type = 'T/F'
order by NEWID() ) t2
end
GO

```

Depends On ③

- grid icon dbo.question
- grid icon dbo.ques_choices
- grid icon dbo.course

Used By

No items found

dbo.saving_exam_id

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER proc dbo.saving_exam_id
as
begin

declare @email varchar(50)
declare @exam_tit nvarchar(50)
declare @crs_id int
declare @final_result int
declare @exam_id int

select top 1 @email = login_user from login_student order by id desc
select top 1 @exam_tit = course_selected from courses_selected order by id desc
set @crs_id = (select crs_id from course where crs_name = @exam_tit )

insert into exam (exam_mark,st_mark,crs_id,exam_title)

values (10,null
,(@crs_id),
(@exam_tit))

/* set @exam_id = (select top 1 exam_id from exam order by exam_id desc) set @final_result = ( select sum(
answer_correct ) from exam_taken where exam_id = @exam_id ) update exam set st_mark = @final_result where exam_id =
@exam_id */
end
GO

```

Depends On ⑤

-  dbo.login_user
-  dbo.login_student
-  dbo.courses_selected
-  dbo.course
-  dbo.exam

Used By

No items found

dbo.saving_ques

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@ques_id	int	4	
@answer	nvarchar	120	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER proc dbo.saving_ques @ques_id int , @answer nvarchar(120)
as
begin
declare @email varchar(50)
declare @model_ans nvarchar(120)
declare @exam_id int ,
@st_id int
-- @ques_id int

set @exam_id = (Select top 1 exam_id from exam order by exam_id desc);
set @model_ans = (select ques_answer from question where ques_id= @ques_id )
set @email = (select top 1 login_user from login_student order by id desc)
set @st_id = (select st_id from Student where user_login = @email)
-- set @ques_id = (select ques_id from question where ques_header = @question )

insert into exam_taken (st_id,exam_id,ques_id,answer) values
(@st_id,
@exam_id,
@ques_id,
(@answer))

update exam_taken
set answer_correct = 1
from exam
join exam_taken
on exam.exam_id = exam_taken.exam_id
join question
on question.ques_id = exam_taken.ques_id
where exam.exam_id = @exam_id and question.ques_id =@ques_id
and answer = ques_answer

update exam_taken
set answer_correct = 0
from exam
join exam_taken

```

```
on exam.exam_id = exam_taken.exam_id
join question
on question.ques_id = exam_taken.ques_id
where exam.exam_id = @exam_id and question.ques_id =@ques_id
and answer != ques_answer

end
GO
```

Depends On ⑥

-  dbo.exam
-  dbo.question
-  dbo.login_user
-  dbo.login_student
-  dbo.student
-  dbo.exam_taken

Used By

No items found

dbo.saving_regs_data

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@fname	varchar	20	
@mname	varchar	20	
@lname	varchar	20	
@city	nvarchar	50	
@gender	varchar	20	
@login	varchar	50	
@password	varchar	50	

SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER proc dbo.saving_regs_data
@fname varchar(20),
@mname varchar(20),
@lname varchar(20),
@city nvarchar(50),
@gender varchar(20),
@login varchar(50),
@password varchar(50)
as
insert into student(st_fname,st_mname,st_lname,city,gender,user_login,password)
values ((@fname),(@mname),(@lname),(@city),(@gender),(@login),(@password))

GO

```

Depends On ①



dbo.student

Used By

No items found

dbo.show_name

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

Parameters

Name	Data Type	Length	Description
@z	varchar	50	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER proc dbo.show_name @z varchar(50) output
as
begin
select st_fname+' '+st_mname+' '+st_lname  from Student, login_student where Student.user_login in
(select top 1 login_student.login_user from login_student order by id desc)
end
GO
```

Depends On ②

-  dbo.student
-  dbo.login_student

Used By ①

-  dbo.show_name2

dbo.show_name2

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
create OR ALTER procedure dbo.show_name2
as
declare @z varchar(50)
execute show_name @z out
print @z
GO
```

Depends On ①

[dbo.show_name](#)

Used By

No items found

📁 Functions

Objects ①

 Scalar-Valued Functions

Scalar-Valued Functions

Objects ①

Name	Description
dbo.fn_diagramobjects	

fx dbo.fn_diagramobjects

Description

Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	dbo
Null on Null Input	False
Schema Bound	False
Assembly	

Parameters

Name	Data Type	Length	Description
(Result)	int	4	

Permissions

Type	Action	Owner
Deny	EXECUTE	guest
Grant	EXECUTE	public

SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.fn_diagramobjects()
RETURNS int
WITH EXECUTE AS N'dbo'
AS
BEGIN
    declare @id_upgraddiagrams int
    declare @id_sysdiagrams int
    declare @id_helpdiagrams int
    declare @id_helpdiagramdefinition int
    declare @id_creatediagram int
    declare @id_renamediagram int
    declare @id_alterdiagram int
    declare @id_dropdiagram int
    declare @InstalledObjects int

    select @InstalledObjects = 0

    select @id_upgraddiagrams = object_id(N'dbo.sp_upgraddiagrams'),
    @id_sysdiagrams = object_id(N'dbo.sysdiagrams'),
    @id_helpdiagrams = object_id(N'dbo.sp_helpdiagrams'),
    @id_helpdiagramdefinition = object_id(N'dbo.sp_helpdiagramdefinition'),
    @id_creatediagram = object_id(N'dbo.sp_creatediagram'),
    @id_renamediagram = object_id(N'dbo.sp_renamediagram'),
```

```
@id_alterdiagram = object_id(N'dbo.sp_alterdiagram'),
@id_dropdiagram = object_id(N'dbo.sp_dropdiagram')

if @id_upgradediagrams is not null
    select @InstalledObjects = @InstalledObjects + 1
if @id_systdiagrams is not null
    select @InstalledObjects = @InstalledObjects + 2
if @id_helpdiagrams is not null
    select @InstalledObjects = @InstalledObjects + 4
if @id_helpdiagramdefinition is not null
    select @InstalledObjects = @InstalledObjects + 8
if @id_creatediagram is not null
    select @InstalledObjects = @InstalledObjects + 16
if @id_renamediagram is not null
    select @InstalledObjects = @InstalledObjects + 32
if @id_alterdiagram is not null
    select @InstalledObjects = @InstalledObjects + 64
if @id_dropdiagram is not null
    select @InstalledObjects = @InstalledObjects + 128

return @InstalledObjects
END
```

```
GO
```

📁 Security

Objects 2

-  Roles
-  Schemas

📁 Roles

Objects 1



Database Roles

Database Roles

Objects 10

Name	Description
db_accessadmin	
db_backupoperator	
db_datareader	
db_datawriter	
db_ddladmin	
db_denydatareader	
db_denydatawriter	
db_owner	
db_securityadmin	
public	

db_accessadmin

Properties

Name	Value
Owner	dbo

Members

No items found

SQL Script

```
CREATE ROLE db_accessadmin  
GO
```

Depends On ①



dbo

Used By ①



db_accessadmin

db_backupoperator

Properties

Name	Value
Owner	dbo

Members

No items found

SQL Script

```
CREATE ROLE db_backupoperator  
GO
```

Depends On ①



dbo

Used By ①



db_backupoperator

db_datareader

Properties

Name	Value
Owner	dbo

Members

No items found

SQL Script

```
CREATE ROLE db_datareader  
GO
```

Depends On ①



dbo

Used By ①



db_datareader

db_datawriter

Properties

Name	Value
Owner	dbo

Members

No items found

SQL Script

```
CREATE ROLE db_datawriter  
GO
```

Depends On ①



dbo

Used By ①



db_datawriter

db_ddladmin

Properties

Name	Value
Owner	dbo

Members

No items found

SQL Script

```
CREATE ROLE db_ddladmin  
GO
```

Depends On ①



dbo

Used By ①



db_ddladmin

db_denydatareader

Properties

Name	Value
Owner	dbo

Members

No items found

SQL Script

```
CREATE ROLE db_denydatareader  
GO
```

Depends On ①



dbo

Used By ①



db_denydatareader

db_denydatawriter

Properties

Name	Value
Owner	dbo

Members

No items found

SQL Script

```
CREATE ROLE db_denydatawriter  
GO
```

Depends On ①



dbo

Used By ①



db_denydatawriter

db_owner

Properties

Name	Value
Owner	dbo

Members ①

dbo

SQL Script

```
CREATE ROLE db_owner
GO

EXEC sp_addrolemember N'db_owner', N'dbo'
GO
```

Depends On ①



dbo

Used By ①



db_securityadmin

Properties

Name	Value
Owner	dbo

Members

No items found

SQL Script

```
CREATE ROLE db_securityadmin  
GO
```

Depends On ①



dbo

Used By ①



db_securityadmin

public

Properties

Name	Value
Owner	dbo

Members

No items found

Database Level Permissions

Type	Action
Grant	VIEW ANY COLUMN ENCRYPTION KEY DEFINITION
Grant	VIEW ANY COLUMN MASTER KEY DEFINITION

SQL Script

```
CREATE ROLE [public]
GO
```

Depends On ①



dbo

Used By

No items found

Schemas

Objects 13

Name	Description
db_accessadmin	
db_backupoperator	
db_datareader	
db_datawriter	
db_ddladmin	
db_denydatareader	
db_denydatawriter	
db_owner	
db_securityadmin	
dbo	
guest	
INFORMATION_SCHEMA	
sys	

db_accessadmin

Properties

Name	Value
Owner	db_accessadmin

SQL Script

```
CREATE SCHEMA db_accessadmin AUTHORIZATION db_accessadmin  
GO
```

Depends On ①



Used By

No items found

db_backupoperator

Properties

Name	Value
Owner	db_backupoperator

SQL Script

```
CREATE SCHEMA db_backupoperator AUTHORIZATION db_backupoperator  
GO
```

Depends On ①



Used By

No items found

db_datareader

Properties

Name	Value
Owner	db_datareader

SQL Script

```
CREATE SCHEMA db_datareader AUTHORIZATION db_datareader  
GO
```

Depends On ①



Used By

No items found

db_datawriter

Properties

Name	Value
Owner	db_datawriter

SQL Script

```
CREATE SCHEMA db_datawriter AUTHORIZATION db_datawriter  
GO
```

Depends On ①



db_datawriter

Used By

No items found

db_ddladmin

Properties

Name	Value
Owner	db_ddladmin

SQL Script

```
CREATE SCHEMA db_ddladmin AUTHORIZATION db_ddladmin  
GO
```

Depends On ①



Used By

No items found

db_denydatareader

Properties

Name	Value
Owner	db_denydatareader

SQL Script

```
CREATE SCHEMA db_denydatareader AUTHORIZATION db_denydatareader  
GO
```

Depends On ①



Used By

No items found

db_denydatawriter

Properties

Name	Value
Owner	db_denydatawriter

SQL Script

```
CREATE SCHEMA db_denydatawriter AUTHORIZATION db_denydatawriter  
GO
```

Depends On ①



db_denydatawriter

Used By

No items found

db_owner

Properties

Name	Value
Owner	db_owner

SQL Script

```
CREATE SCHEMA db_owner AUTHORIZATION db_owner  
GO
```

Depends On ①



Used By

No items found

db_securityadmin

Properties

Name	Value
Owner	db_securityadmin

SQL Script

```
CREATE SCHEMA db_securityadmin AUTHORIZATION db_securityadmin  
GO
```

Depends On ①



Used By

No items found

dbo

Description

Properties

Name	Value
Owner	dbo

SQL Script

```
CREATE SCHEMA dbo AUTHORIZATION dbo  
GO
```

Depends On ①



Used By

No items found

guest

Description

Properties

Name	Value
Owner	guest

SQL Script

```
CREATE SCHEMA guest AUTHORIZATION guest
GO
```

Depends On ①



Used By

No items found

INFORMATION_SCHEMA

Properties

Name	Value
Owner	INFORMATION_SCHEMA

SQL Script

```
CREATE SCHEMA INFORMATION_SCHEMA AUTHORIZATION INFORMATION_SCHEMA
GO
```

Depends On ①

 INFORMATION_SCHEMA

Used By

No items found

sys

Properties

Name	Value
Owner	sys

SQL Script

```
CREATE SCHEMA sys AUTHORIZATION sys  
GO
```

Depends On ①



Used By

No items found