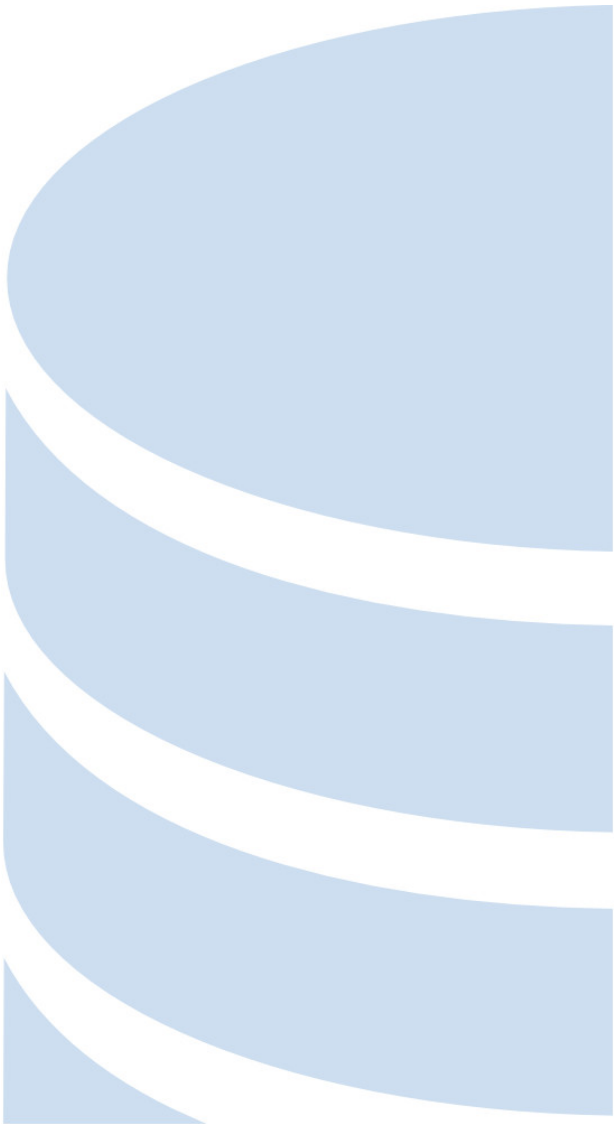


Lite Edition

# ITI examination system1@.

## Data Dictionary

2019-12-14


























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## Legend

-  Primary key
-  Primary key disabled
-  User-defined primary key
-  Unique key
-  Unique key disabled
-  User-defined unique key
-  Active trigger
-  Disabled trigger
-  Many to one relation
-  User-defined many to one relation
-  One to many relation
-  User-defined one to many relation
-  One to one relation
-  User-defined one to one relation
-  Input
-  Output
-  Input/Output
-  Uses dependency
-  User-defined uses dependency
-  Used by dependency
-  User-defined used by dependency

ITI examination system@.

## 1. New module







## 2. Other

### 2.1. Tables


#### 2.1.1. Table: `dbo.Choices`

holds all the choices of the MCQ questions

##### Columns

Name		Data type	Description / Attributes
	 QNUM	int	<b>References:</b> <code>dbo.MCQ_questions</code>
	 Choice	nvarchar(50)	

##### Links to






Table	Join	Title / Name / Description
 <code>dbo.MCQ_questions</code>	<b><code>dbo.Choices.QNUM</code></b> = <code>dbo.MCQ_questions.QNUM</code>	<code>FK_Choices_MCQ</code>

##### Unique keys

Columns	Name / Description
 QNUM, Choice	<code>PK_Choices</code>

## 2.1.2. Table: dbo.Courses


### Columns

Name		Data type	Description / Attributes
	Course_id	int	
	Course_desc	nvarchar(50)	Nullable
	Course_name	nchar(10)	
	Duration	int	
	is_active	int	Default: 1

### Linked from






Table	Join	Title / Name / Description
→< dbo.Inst_course	<b>dbo.Courses.Course_id</b> = dbo.Inst_course.Course_id	FK_Inst_course_Courses
→< dbo.Topics	<b>dbo.Courses.Course_id</b> = dbo.Topics.Course_id	FK_Topics_Courses

### Unique keys


Columns	Name / Description
 Course_id	PK_Courses

### 2.1.3. Table: dbo.Departments



#### Columns

		Name	Data type	Description / Attributes
		Dept_id	int	
		Dept_name	nchar(10)	
		Manager	int	<b>References:</b> dbo.Instructors
		is_active	int	<b>Default:</b> 1


#### Links to

	Table	Join	Title / Name / Description
	dbo.Instructors	<b>dbo.Departments</b> .Manager = dbo.Instructors.Inst_id	FK_Departments_Instructors

#### Linked from

	Table	Join	Title / Name / Description
	dbo.Instructors	<b>dbo.Departments</b> .Dept_id = dbo.Instructors.Dept_id	FK_Instructors_Departments
	dbo.Students	<b>dbo.Departments</b> .Dept_id = dbo.Students.Department_id	FK_Students_Departments








#### Unique keys

Columns		Name / Description
	Dept_id	PK_Departments

## 2.1.4. Table: dbo.EXAMS

hold all the exams created for all the topics





### Columns

Name		Data type	Description / Attributes
	 Exam_ID	int	Identity / Auto increment
	Model_Ans	text	
	Total_Grade	int	
	Passing_Grade	int	Nullable
	is_active	int	Default: 1
	inst_id	int	Nullable References: dbo.Instructors


### Links to

Table	Join	Title / Name / Description
 dbo.Instructors	<b>dbo.EXAMS</b> .inst_id = dbo.Instructors.Inst_id	FK_EXAMS_Instructors

### Linked from





Table	Join	Title / Name / Description
 dbo.Exams_MCQ	<b>dbo.EXAMS</b> .Exam_ID = dbo.Exams_MCQ.Exams_id	FK_Exams_MCQ_EXAMS
 dbo.Exams_TF	<b>dbo.EXAMS</b> .Exam_ID = dbo.Exams_TF.EXAMS_ID	FK_Exams_TF_EXAMS
 dbo.Student_EXAM	<b>dbo.EXAMS</b> .Exam_ID = dbo.Student_EXAM.Exam_id	FK_Student_EXAM_EXAMS
 dbo.Topics_EXAMS	<b>dbo.EXAMS</b> .Exam_ID = dbo.Topics_EXAMS.Exam_id	FK_Topics_EXAMS_EXAMS

### Unique keys



Columns	Name / Description
 Exam_ID	PK_EXAMS

## 2.1.5. Table: dbo.Exams\_MCQ


### Columns

Name		Data type	Description / Attributes
	 Exams_id	int	<b>References:</b> dbo.EXAMS
	 MCQ_ID	int	<b>References:</b> dbo.MCQ_questions

### Links to





Table		Join	Title / Name / Description
	dbo.EXAMS	<b>dbo.Exams_MCQ.Exams_id =</b> dbo.EXAMS.Exam_ID	FK_Exams_MCQ_EXAMS
	dbo.MCQ_questions	<b>dbo.Exams_MCQ.MCQ_ID =</b> dbo.MCQ_questions.QNUM	FK_Exams_MCQ_MCQ

### Unique keys



Columns		Name / Description
	Exams_id, MCQ_ID	PK_Exams_MCQ

## 2.1.6. Table: dbo.Exams\_TF


### Columns

Name		Data type	Description / Attributes
	 EXAMS_ID	int	<b>References:</b> dbo.EXAMS
	 TF_ID	int	<b>References:</b> dbo.TF_Questions

### Links to





Table	Join	Title / Name / Description
 dbo.EXAMS	<b>dbo.Exams_TF</b> .EXAMS_ID = dbo.EXAMS.Exam_ID	FK_Exams_TF_EXAMS
 dbo.TF_Questions	<b>dbo.Exams_TF</b> .TF_ID = dbo.TF_Questions.QNUM	FK_EXAMS_TF_TF_Questions

### Unique keys



Columns	Name / Description
 EXAMS_ID, TF_ID	PK_EXAMS_TF

## 2.1.7. Table: dbo.Inst\_course


### Columns

Name		Data type	Description / Attributes
	 Course_id	int	<b>References:</b> dbo.Courses
	 Inst_id	int	<b>References:</b> dbo.Instructors

### Links to







Table		Join	Title / Name / Description
	dbo.Courses	<b>dbo.Inst_course.Course_id =</b> dbo.Courses.Course_id	FK_Inst_course_Courses
	dbo.Instructors	<b>dbo.Inst_course.Inst_id =</b> dbo.Instructors.Inst_id	FK_Inst_course_Instructors

### Unique keys


Columns		Name / Description
	Course_id, Inst_id	PK_Inst_course

## 2.1.8. Table: dbo.Instructors




### Columns

Name		Data type	Description / Attributes
	Inst_id	int	
	Inst_name	nchar(10)	
	Salary	int	
	Address	nvarchar(50)	Nullable
	Dept_id	int	Nullable References: dbo.Departments
	is_active	int	Default: 1


### Links to

Table	Join	Title / Name / Description
 dbo.Departments	<b>dbo.Instructors</b> .Dept_id = dbo.Departments.Dept_id	FK_Instructors_Departments

### Linked from

Table	Join	Title / Name / Description
 dbo.Departments	<b>dbo.Instructors</b> .Inst_id = dbo.Departments.Manager	FK_Departments_Instructors
 dbo.EXAMS	<b>dbo.Instructors</b> .Inst_id = dbo.EXAMS.inst_id	FK_EXAMS_Instructors
 dbo.Inst_course	<b>dbo.Instructors</b> .Inst_id = dbo.Inst_course.Inst_id	FK_Inst_course_Instructors

### Unique keys











Columns	Name / Description
 Inst_id	PK_Instructors




### 2.1.9. Table: dbo.MCQ\_questions

holds all questions from the type multiple choices



#### Columns

Name		Data type	Description / Attributes
	 QNUM	int	Identity / Auto increment
	Qhead	nvarchar(MAX)	
	Correct_Ans	nvarchar(50)	
	Grade	int	
	Topic_id	int	References: dbo.Topics
	is_active	int	Default: 1
	choice_num	int	Nullable
	choice2	nvarchar(50)	Nullable
	choice3	nvarchar(50)	Nullable

#### Links to

Table	Join	Title / Name / Description
 dbo.Topics	<b>dbo.MCQ_questions</b> .Topic_id = dbo.Topics.topic_id	FK_MCQ_questions_Topics

#### Linked from














Table	Join	Title / Name / Description
 dbo.Choices	<b>dbo.MCQ_questions</b> .QNUM = dbo.Choices.QNUM	FK_Choices_MCQ
 dbo.Exams_MCQ	<b>dbo.MCQ_questions</b> .QNUM = dbo.Exams_MCQ.MCQ_ID	FK_Exams_MCQ_MCQ

#### Unique keys



Columns	Name / Description
 QNUM	PK_MCQ

## 2.1.10. Table: dbo.Student\_EXAM


### Columns

	Name	Data type	Description / Attributes
	Student_id	int	References: dbo.Students
	Exam_id	int	References: dbo.EXAMS
	ans_Q1	char(10)	Nullable
	ans_Q2	char(10)	Nullable
	ans_Q3	char(10)	Nullable
	ans_Q4	char(10)	Nullable
	ans_Q5	char(10)	Nullable
	ans_Q6	char(10)	Nullable
	ans_Q7	char(10)	Nullable
	ans_Q8	char(10)	Nullable
	ans_Q9	char(10)	Nullable
	ans_Q10	char(10)	Nullable
	st_grade	int	Nullable

### Links to





	Table	Join	Title / Name / Description
	dbo.EXAMS	<b>dbo.Student_EXAM.Exam_id</b> = dbo.EXAMS.Exam_ID	FK_Student_EXAM_EXAMS
	dbo.Students	<b>dbo.Student_EXAM.Student_id</b> = dbo.Students.Student_id	FK_Student_EXAM_Students

### Unique keys



Columns	Name / Description
 Student_id, Exam_id	PK_Student_EXAM

## 2.1.11. Table: dbo.Student\_Topics


### Columns

Name		Data type	Description / Attributes
		Student_id	int
		Topic_id	int

### Links to








Table	Join	Title / Name / Description
 dbo.Students	<b>dbo.Student_Topics.Student_id</b> = dbo.Students.Student_id	FK_Student_Topics_Students
 dbo.Topics	<b>dbo.Student_Topics.Topic_id</b> = dbo.Topics.topic_id	FK_Student_Topics_Topics

### Unique keys


Columns	Name / Description
 Student_id, Topic_id	PK_Student_Topics

## 2.1.12. Table: dbo.Students



### Columns

Name		Data type	Description / Attributes
	Student_id	int	
	FNname	nchar(10)	
	LName	nchar(10)	
	Age	int	
	Address	nvarchar(50)	Nullable
	Department_id	int	References: dbo.Departments
	is_active	int	Default: 1


### Links to

Table	Join	Title / Name / Description
 dbo.Departments	<b>dbo.Students</b> .Department_id = dbo.Departments.Dept_id	FK_Students_Departments

### Linked from

Table	Join	Title / Name / Description
 dbo.Student_EXAM	<b>dbo.Students</b> .Student_id = dbo.Student_EXAM.Student_id	FK_Student_EXAM_Students
 dbo.Student_Topics	<b>dbo.Students</b> .Student_id = dbo.Student_Topics.Student_id	FK_Student_Topics_Students








### Unique keys

Columns	Name / Description
 Student_id	PK_Students


### 2.1.13. Table: dbo.TF\_Questions

hold all the true or false Questions


#### Columns

Name		Data type	Description / Attributes
	 QNUM	int	Identity / Auto increment
	Qhead	nvarchar(MAX)	
	Correct_ans	char(1)	
	Grade	int	
	Topic_id	int	References: dbo.Topics
	is_active	int	Default: 1


#### Links to

Table	Join	Title / Name / Description
 dbo.Topics	dbo.TF_Questions.Topic_id = dbo.Topics.topic_id	FK_TF_Questions_Topics

#### Linked from





Table	Join	Title / Name / Description
 dbo.Exams_TF	dbo.TF_Questions.QNUM = dbo.Exams_TF.TF_ID	FK_EXAMS_TF_TF_Questions

#### Unique keys

Columns	Name / Description
 QNUM	PK_TF_Questions

## 2.1.14. Table: dbo.Topics





### Columns

Name		Data type	Description / Attributes
	topic_id	int	
	Topic_Name	nvarchar(50)	
	Course_id	int	<b>References:</b> dbo.Courses
	is_active	int	<b>Default:</b> 1

### Links to

Table	Join	Title / Name / Description
 dbo.Courses	<b>dbo.Topics</b> .Course_id = dbo.Courses.Course_id	FK_Topics_Courses

### Linked from





Table	Join	Title / Name / Description
 dbo.MCQ_questions	<b>dbo.Topics</b> .topic_id = dbo.MCQ_questions.Topic_id	FK_MCQ_questions_Topics
 dbo.Student_Topics	<b>dbo.Topics</b> .topic_id = dbo.Student_Topics.Topic_id	FK_Student_Topics_Topics
 dbo.TF_Questions	<b>dbo.Topics</b> .topic_id = dbo.TF_Questions.Topic_id	FK_TF_Questions_Topics
 dbo.Topics_EXAMS	<b>dbo.Topics</b> .topic_id = dbo.Topics_EXAMS.Topic_id	FK_Topics_EXAMS_Topics

### Unique keys



Columns	Name / Description
 topic_id	PK_Topics

## 2.1.15. Table: dbo.Topics\_EXAMS


### Columns

Name		Data type	Description / Attributes
	 Topic_id	int	<b>References:</b> dbo.Topics
	 Exam_id	int	<b>References:</b> dbo.EXAMS

### Links to

Table	Join	Title / Name / Description
 dbo.EXAMS	<b>dbo.Topics_EXAMS.Exam_id</b> = dbo.EXAMS.Exam_ID	FK_Topics_EXAMS_EXAMS
 dbo.Topics	<b>dbo.Topics_EXAMS.Topic_id</b> = dbo.Topics.topic_id	FK_Topics_EXAMS_Topics




### Unique keys

Columns	Name / Description
 Topic_id, Exam_id	PK_Topics_EXAMS

## 2.2. Views

### 2.2.1. View: dbo.V\_mcq\_questions

#### Columns

Name		Data type	Description / Attributes
	Qhead	nvarchar(MAX)	
	Choice	nvarchar(50)	
	QNUM	int	



## 2.3. Procedures

### 2.3.1. Procedure: dbo.correct\_exam

#### Input/Output

Name		Data type	Description
➔@	stu_id	int	
➔@	exam_id	int	

### 2.3.2. Procedure: dbo.Delete\_From\_Course

#### Input/Output

	Name	Data type	Description
→@	ID	int	

### 2.3.3. Procedure: dbo.Delete\_From\_Department

#### Input/Output

	Name	Data type	Description
→@	Depart_ID	int	

### 2.3.4. Procedure: dbo.delete\_from\_Instructor

#### Input/Output

	Name	Data type	Description
→@	ins_id	int	

2.3.5. Procedure: dbo.delete\_from\_mcq

Input/Output

	Name	Data type	Description
→@	qhead	nvarchar(MAX)	

### 2.3.6. Procedure: dbo.delete\_from\_Student

#### Input/Output

Name		Data type	Description
→@	std_id	int	

### 2.3.7. Procedure: dbo.Delete\_From\_TF\_Questions

#### Input/Output

Name		Data type	Description
→@	QNUM	int	

2.3.8. Procedure: dbo.Delete\_From\_Topic

Input/Output

	Name	Data type	Description
→@	Topic_ID	int	



### 2.3.9. Procedure: dbo.delete\_mcq\_question

#### Input/Output

	Name	Data type	Description
→@	qhead	nvarchar(MAX)	

### 2.3.10. Procedure: dbo.delete\_tf\_question

#### Input/Output

	Name	Data type	Description
→@	qhead	nvarchar(MAX)	

### 2.3.11. Procedure: dbo.Exam\_Answers

#### Input/Output

	Name	Data type	Description
→@	exam_ID	int	
→@	std_ID	int	
→@	Ans1	varchar(50)	
→@	Ans2	varchar(50)	
→@	Ans3	varchar(50)	
→@	Ans4	varchar(50)	
→@	Ans5	varchar(50)	
→@	Ans6	varchar(50)	
→@	Ans7	varchar(50)	
→@	Ans8	varchar(50)	
→@	Ans9	varchar(50)	
→@	Ans10	varchar(50)	

### 2.3.12. Procedure: dbo.Generate\_exam

#### Input/Output

	Name	Data type	Description
→@	Ins_ID	int	
→@	Topic_ID	int	
→@	MCQ_NUM	int	
→@	TF_NUM	int	

### 2.3.13. Procedure: dbo.Insert\_Into\_Course

#### Input/Output

	Name	Data type	Description
→@	Course_ID	int	
→@	Course_Name	varchar(50)	
→@	Course_Duration	int	

### 2.3.14. Procedure: dbo.Insert\_Into\_Department

#### Input/Output

	Name	Data type	Description
→@	Depart_ID	int	
→@	Depart_Name	varchar(50)	
→@	Manager	int	

### 2.3.15. Procedure: dbo.insert\_into\_Instructor

#### Input/Output

	Name	Data type	Description
→@	Ins_id	int	
→@	Ins_name	varchar(20)	
→@	Ins_Sal	int	
→@	Ins_Add	varchar(20)	
→@	Dept_id	int	

## 2.3.16. Procedure: dbo.insert\_into\_mcq\_questions

### Input/Output

	Name	Data type	Description
→@	qhead	nvarchar(MAX)	
→@	c1	nvarchar(50)	
→@	c2	nvarchar(50)	
→@	c3	nvarchar(50)	
→@	ans	nvarchar(50)	
→@	grade	int	
→@	topic_id	int	
→@	is_active	int	



### 2.3.17. Procedure: dbo.insert\_into\_mcq\_questions\_v2

#### Input/Output

	Name	Data type	Description
→@	qhead	nvarchar(MAX)	
→@	c1	nvarchar(50)	
→@	c2	nvarchar(50)	
→@	ans	nvarchar(50)	
→@	grade	int	
→@	topic_id	int	
→@	is_active	int	

### 2.3.18. Procedure: dbo.Insert\_into\_student

#### Input/Output

	Name	Data type	Description
→@	std_id	int	
→@	std_fname	varchar(20)	
→@	std_lname	varchar(20)	
→@	std_age	int	
→@	std_add	varchar(20)	
→@	dept_id	int	

### 2.3.19. Procedure: dbo.Insert\_Into\_Topic

#### Input/Output

	Name	Data type	Description
→@	Topic_ID	int	
→@	Topic_Name	varchar(50)	
→@	Course_ID	int	

### 2.3.20. Procedure: dbo.insert\_mcq\_question

#### Input/Output

Name		Data type	Description
→@	Qhead	nvarchar(MAX)	
→@	correct_ans	char(1)	
→@	grade	int	
→@	ch1	nvarchar(50)	
→@	ch2	nvarchar(50)	
→@	ch3	nvarchar(50)	

### 2.3.21. Procedure: dbo.insert\_TF\_question

#### Input/Output

	Name	Data type	Description
→@	Qhead	nvarchar(MAX)	
→@	correct_ans	char(1)	
→@	grade	int	
→@	topic_name	nvarchar(50)	

### 2.3.22. Procedure: dbo.Insert\_TF\_Questions

#### Input/Output

	Name	Data type	Description
→@	Qhead	nvarchar(50)	
→@	Correct_ans	char(1)	
→@	Grade	int	
→@	Topic_id	int	

### 2.3.23. Procedure: dbo.Select\_From\_Course

### 2.3.24. Procedure: dbo.Select\_From\_Department



### 2.3.25. Procedure: dbo.select\_from\_Instructor

### 2.3.26. Procedure: dbo.select\_from\_mcq

### 2.3.27. Procedure: dbo.select\_from\_Student

### 2.3.28. Procedure: dbo.Select\_From\_TF\_Questions

### 2.3.29. Procedure: dbo.Select\_From\_Topic

### 2.3.30. Procedure: dbo.topic\_mcq\_question

#### Input/Output

	Name	Data type	Description
→@	topic_name	nvarchar(50)	

2.3.31. Procedure: dbo.topic\_tf\_question

Input/Output

	Name	Data type	Description
→@	topic_name	nvarchar(50)	

### 2.3.32. Procedure: dbo.Update\_In\_Course

#### Input/Output

	Name	Data type	Description
→@	Course_ID	int	
→@	Course_Name	varchar(50)	
→@	Course_Duration	int	



### 2.3.33. Procedure: dbo.Update\_In\_Department

#### Input/Output

	Name	Data type	Description
→@	Dept_ID	int	
→@	Dept_Name	varchar(50)	
→@	Manager	int	

### 2.3.34. Procedure: dbo.Update\_In\_Topic

#### Input/Output

	Name	Data type	Description
→@	Topic_ID	int	
→@	Topic_Name	varchar(50)	
→@	Course_ID	int	

### 2.3.35. Procedure: dbo.update\_into\_mcq\_questions

#### Input/Output

	Name	Data type	Description
→@	qhead	nvarchar(MAX)	
→@	c1	nvarchar(50)	
→@	c2	nvarchar(50)	
→@	c3	nvarchar(50)	
→@	ans	nvarchar(50)	
→@	grade	int	
→@	topic_id	int	
→@	is_active	int	

### 2.3.36. Procedure: dbo.update\_mcq\_questions\_v2

#### Input/Output

	Name	Data type	Description
→@	qhead	nvarchar(MAX)	
→@	c1	nvarchar(MAX)	
→@	c2	nvarchar(MAX)	
→@	ans	nvarchar(MAX)	
→@	grade	int	
→@	topic_id	int	
→@	is_active	int	

### 2.3.37. Procedure: dbo.update\_on\_Instructor

#### Input/Output

	Name	Data type	Description
→@	Ins_id	int	
→@	Ins_name	varchar(20)	
→@	Ins_Sal	int	
→@	Ins_Add	varchar(20)	

### 2.3.38. Procedure: dbo.update\_on\_Student

#### Input/Output

	Name	Data type	Description
→@	std_id	int	
→@	std_fname	varchar(20)	
→@	std_lname	varchar(20)	
→@	std_age	int	
→@	std_Add	varchar(20)	

### 2.3.39. Procedure: dbo.Update\_TF\_Questions

#### Input/Output

	Name	Data type	Description
→@	QNUM	int	
→@	Qhead	nvarchar(50)	
→@	Correct_ans	char(1)	
→@	Grade	int	
→@	Topic_id	int	

## 2.4. Functions

### 2.4.1. Function: dbo.check\_qhead\_tf

#### Input/Output

	Name	Data type	Description
↩@	Returns	int	
→@	qhead	nvarchar(MAX)	