

# **Examination System Sql Server Documentation**

## *Examination System*



### **Team Members:**

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### **Tables:**

-  *YMF.Branch*
-  *YMF.Department*
-  *YMF.Track*
-  *YMF.Intake*
-  *YMF.Instructor*
-  *YMF.Instructor\_Address*
-  *YMF.Student*
-  *YMF.Student\_Address*
-  *YMF.Courses*
-  *YMF.Student\_Courses*
-  *YMF.Exam*
-  *YMF.Student\_Exam*
-  *YMF.Question*
-  *YMF.Exam\_Question*
-  *YMF.Intake\_Exam*
-  *YMF.Student\_Exame\_Answer*

## Store Procedures:

 **Add\_Branch\_Pro:**

 **Delete\_Branch\_PRo**

 **Update\_Branch\_PRo**

:insert ,update and delete on branch table using proc.

 **Add\_Course\_Pro:**

 **Delete\_Course\_PRo**

 **Update\_Course\_PRo**

:insert ,update and delete on Courses table using proc.

 **Add\_Department\_Pro:**

 **Delete\_Department\_PRo**

 **Update\_Department\_PRo**

:insert ,update and delete on Department table using proc.

 **Add\_Track\_Pro:**

 **Delete\_Track\_PRo**

 **Update\_Track\_PRo**

:insert ,update and delete on Track table using proc.

 **Add\_Instructor\_Pro:**

 **Delete\_Instructor\_PRo**

 **Update\_Instructor\_PRo**

:insert ,update and delete on Instructor table using proc.

 **Add\_Student\_Pro:**

 **Delete\_Student\_PRo**

 **Update\_Student\_PRo**

:insert ,update and delete on Student table using proc.

 **Add\_Question\_Pro:**

 **Delete\_Question\_PRo**

 **Update\_Question\_PRo**

:insert ,update and delete on Question table using proc.

-  **Add\_Exam\_Pro:**  
 **Delete\_Exam\_PRo**  
 **Update\_Exam\_PRo**  
    :insert ,update and delete on Exam table using proc.
  
-  **Assign\_Course\_To\_Intake:**  
    insert into intake\_Exam table using proc.
  
-  **Add\_Instructor\_Address\_Pro:**  
    :insert into Instructor\_Address table using proc.
  
-  **Add\_Student\_Address\_Pro:**  
    :insert into Student\_Address table using proc.
  
-  **Add\_Intake\_Pro:**  
    :insert onto Intake table using proc.
  
-  **Add\_Question\_to\_Course:**  
    :insert question to specific course in question table using proc.
  
-  **select\_Question\_Random:**  
    :Select question random from question to specific exam using proc.
  
-  **Display\_Question\_Pool\_For\_Course:**  
    : proc take course id and show his questions in pool.
  
-  **Select\_Question\_Manualy:**  
    :Select question manualy from pool to specific exam using proc.
  
-  **Delete\_Question\_from\_Exam:**  
    :delete question from specific exam using proc.
  
-  **Assign\_Instructor\_To\_Course:**  
    : assign instructor to course in Intake\_Exam table using proc.
  
-  **Assign\_Instructor\_To\_Branch\_as\_Manager\_Pro:**  
    : assign instructor to manage branch using proc.



***Display\_Question\_To\_Student\_Pro:***  
*: show exam to student in exam specific time using proc.*

## Views:

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "YMF.Show\_all\_Courses:". The Object Explorer on the left shows the database structure, including tables like Courses, Departments, and Intakes. The Solution Explorer on the right lists various project files. The central pane displays T-SQL code for creating a view:

```
select * from YMF.Intake
GO
create View YMF_Show_all_Courses
with encryption
as
    select * from YMF.Courses
drop view Show_all_Courses
select * from YMF_Show_all_Courses
GO
```

The results pane shows the output of the query, which is a list of 15 courses with their descriptions, maximum degree requirements, and minimum degree requirements:

Crs_Id	Crs_Name	Crs_Description	Crs_Max_Degree	Crs_Min_Degree
1	C#	not full programming	20	15
2	Java	High Level Language	20	10
3	C++	High Level Language	20	10
4	Python	language use to machine learning	20	10
5	JavaScript	high level language from ECMAScript	20	10
6	OOP	object oriented programming using c#	20	10
7	SQL	fundamental of cyber security	20	10
8	introduction cybersecurity	this is one of all courses	20	10
9	machine learning	Internet of things	20	10
10	IOT	multimedia course	20	10
11	Intro graphic	hyper text markup language	20	10
12	HTML	css	20	10
13	CSS	css and html	20	10
14	Bootstrap	css framework	20	10
15	SQL	structure query language	20	10
16	Mango DB	database prefer to node js	20	10

At the bottom, the status bar shows "Query executed successfully." and the connection details "localhost (15.0 RTM) DESKTOP-9INUQU8\Lenovo\_ Online\_Exam\_System 00:00:00 15 rows".

**YMF.Display\_Courses\_To\_Track:**

```
drop view Show_all_Courses
select * from YMF>Show_all_Courses
GO
-- view to display courses at any track
create View YMF_Display_Courses_To_Track
with encryption
as
    select I.bch_Name,I.Track_Name,I.Intake_number,I.Dept_Name,C.Crs_Name from YMF.Courses as C,YMF.Intake_
    where IE.Crs_Id=C.Crs_Id and IE.Intake_Id=I.Intake_Id

drop view YMF_Display_Courses_To_Track
select * from YMF_Display_Courses_To_Track

--- view to display courses with instructor
GO
```

Results

bch_Name	Track_Name	Intake_number	Dept_Name	Crs_Name
Assist	Social media	43	Multi-media	C++

Query executed successfully.

**YMF.Display\_Questions\_for\_Courses:**

```

Online_Exam_DB_project - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
Quick Launch (Ctrl+Q) Search Solution Explorer (Ctrl+F)
Object Explorer Connect
localhost (SQL Server 15.0.2000.5 - DESKTOP-9INUQU8\Leno^)
Databases System Databases Database Snapshots AdventureWorks2019 Day2Sql ITI IT1 Net23_Company Online_Exam_System
Tables Views External Resources Synonyms Programmability Stored Procedures Functions Database Triggers Assemblies Types Rules Defaults Plan Guides Sequences Service Worker Storage Security Test Security Server Objects Replication PolyBase Always On High Availability Management
ExamToStudent.sql...UQU8\Lenovo (57) Branch_Crud_Opera...UQU8\Lenovo (54) Course_Crud_Opera...UQU8\Lenovo (70)*
GO
--view to Display Questions for Courses
create View YMF_Display_Questions_for_Courses
With encryption
as
select C.Crs_Name,Q.Q_Content,Q.Q_Ans_A,Q.Q_Ans_B,Q.Q_Ans_C,Q.Q_Ans_D from YMF_Courses as C,YMF_Question as Q
WHERE Q.Crs_Id=C.Crs_Id

select * from YMF_Display_Questions_for_Courses
GO

```

Results Messages

Crs_Name	Q_Content	Q_Ans_A	Q_Ans_B	Q_Ans_C	Q_Ans_D
IOT	html is a pure text markup language	true	false	NULL	NULL
IOT	<div> tag is inline block element	true	false	NULL	NULL
IOT	html is programming language	true	false	NULL	NULL
IOT	To add image in html we will use	<img>	<img>	 	
IOT	To add line in html we will use	 	 	 	
IOT	To write paragraph in html we will use	<hr>	<em>	<hr>	
IOT	<span> tag is inline block element	true	false	NULL	NULL
IOT	css is cascade style sheets	true	false	NULL	NULL
IOT	To add line in html we will use	 	 	 	
Intro graphic	How many style links can with html file	1	3	4	2
C++	JavaScript is structural language	true	false	NULL	NULL
C++	JavaScript is a web client scripting language	true	false	NULL	NULL
C++	JavaScript is object Based language	true	false	NULL	NULL
C++	JavaScript Is Developed by Brendan Eich at Netsc	true	false	NULL	NULL
HTML	Bootstrap is a powerful front-end development Fr...	true	false	NULL	NULL
HTML	how many way to use bootstrap	1	2	3	5
C++	STRING is immutable type	true	false	NULL	NULL

Query executed successfully. localhost (15.0 RTM) DESKTOP-9INUQU8\Lenovo... Online\_Exam\_System | 00:00:00 17 rows

**YMF.Show\_All\_Department:**

```

Online_Exam_DB_project - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
Quick Launch (Ctrl+Q) Search Solution Explorer (Ctrl+F)
Object Explorer Connect
localhost (SQL Server 15.0.2000.5 - DESKTOP-9INUQU8\Leno^)
Databases System Databases Database Snapshots AdventureWorks2019 Day2Sql ITI IT1 Net23_Company Online_Exam_System
Tables Views External Resources Synonyms Programmability Stored Procedures Functions Database Triggers Assemblies Types Rules Defaults Plan Guides Sequences Service Worker Storage Security Test Security Server Objects Replication PolyBase Always On High Availability Management
Department_Crud...UQU8\Leno (68) ExamToStudent.sql...UQU8\Lenovo (57) Branch_Crud_Opera...UQU8\Lenovo (54)
GO
begin
    select 'Department Does not exist';
end
else
begin
exec Delete_Department @Delete_Dept_Name='hr'
Go
-----View Department-----
GO
create View YMF_Show_All_Department
With encryption
as
select Dept_Name
from Department

```

Results Messages

Dept_Name
Artificial intelligence
Cyber security
Multi media
software development
Testing

Query executed successfully. localhost (15.0 RTM) DESKTOP-9INUQU8\Lenovo... Online\_Exam\_System | 00:00:00 5 rows

**YMF.Display\_exam\_and\_his\_Question**

Online\_Exam\_DB\_project - Microsoft SQL Server Management Studio

Object Explorer      Solution Explorer

localhost (SQL Server 15.0.2000.5 - DESKTOP-9INUQU8\Leno)

Department\_Crud... (UQU8\Leno (68)) Branch\_Crud\_Operat... (UQU8\Leno (54)) Exam\_Crud\_Operat... (UQU8\Leno (51))

Quick Launch (Ctrl+Q)      Execute

VIEW EXAM

```

Go
--view to Display exam and his Question
create view YMF.Display_exam_and_his_Question
As
select e.Exam_Id, e.Exam_Name, e.Start_Time, e.End_Time, e.Exam_Year, e.Exam_date,
Q_Content, Q.Q_Ans_A, Q.Q_Ans_B, Q.Q_Ans_C, Q.Q_Ans_D
from YMF.Exam as e ,Ymf.Exam_Question as EQ,YMF.Question as Q
where EQ.Exam_Id=e.Exam_Id and EQ.Q_ID=Q.Q_ID

drop view YMF.Display_exam_and_his_Question
select * from select_exam_and_his_Question where Exam_Name='programming'
GO

```

Results      Messages

Q_Content	Q_Ans_A	Q_Ans_B	Exam_Name
JavaScript is structural language	true	false	programming
JavaScript is a web client-side scripting language	true	false	programming
JavaScript is an object-Based language	true	false	programming
JavaScript is Developed by Brendan Eich at Netsc...	true	false	programming

Query executed successfully.      localhost (15.0 RTM) DESKTOP-9INUQU8\Leno... Online\_Exam\_System 00:00:00 4 rows

Ln 127 Col 46 Ch 46 INS

Ready      Type here to search

36°C مშمسن 7:18 PM 8/29/2023

Online\_Exam\_DB\_project - Microsoft SQL Server Management Studio

Object Explorer      Solution Explorer

localhost (SQL Server 15.0.2000.5 - DESKTOP-9INUQU8\Leno)

StoreProcedure.sql (UQU8\Leno (71)) Intake.sql - not connected Student\_Crud\_Operat... (UQU8\Leno (55))

Quick Launch (Ctrl+Q)      Execute

VIEW FOR STUDENT

```

Go
--view to display all student
create view YMF.Display_All_Student
as
select * from Ymf.Student

--view to show all student and his exams -- student have premission
Go
create view YMF.All_Student_Exams
with encryption
as
select s.Std_Id, s.Std_Name, e.Exam_Name, e.Exam_Type, e.Exam_date, e.Total_time, se.Specific_time, e.Exam_Id
from Ymf.Student as s,Ymf.Student_Exam as se,YMF.Exam as e
where se.Std_Id=s.Std_Id and se.Exam_Id=e.Exam_Id

```

Results      Messages

Std_Id	Std_Name	Std_Email	Intake_Id
1	Yehia Zakiya	yehia@gmail.com	17
2	Mohamed Foly	mohamed.foly@gmail.com	17
3	Mahmoud Abu Delf	mahmoud.abudef@gmail.com	17
4	Abdo goda	abdo.goda@gmail.com	19
5	Abdalla Mohamed	abdalla.moh@gmail.com	18
6	Mahmoud Nagy	mahmoud.nagy@gmail.com	17
7	Essam Ahmed	essam.ahmed@gmail.com	21
8	Ayman Mohamed	ayman.mona@gmail.com	17
9	Ali Ahmed	ali.ahmed@gmail.com	17
10	Abdo Ali	abdo.ali@gmail.com	19
11	Ahmed Mohamed	ahmed.mohamed@gmail.com	18

Query executed successfully.      localhost (15.0 RTM) DESKTOP-9INUQU8\Leno... Online\_Exam\_System 00:00:00 11 rows

Ln 285 Col 13 Ch 13 INS

Ready      Type here to search

36°C مشمسن 9:47 PM 8/29/2023

**YMF.Display\_student\_and\_his\_Courses**

```

--create View YMF.Display_student_and_his_Courses_and_name_of_track_and_branch
select * from YMF.Display_student_and_his_Courses_and_name_of_track_and_branch where Crs_Name='C#';

GO
--view select Exam Name and Course Name
create View YMF.Display_student_and_his_Courses
as
select c.Crs_Name,s.Std_Name from Ymf.Courses as c,YMF.STUDENT_Courses as SC,Ymf.Student as s
where sc.Crs_Id=c.Crs_Id and sc.Std_Id=s.Std_Id ;

select * from YMF.Display_student_and_his_Courses

```

Crs_Name	Std_Name
C#	Yehia Zakaria
HTML	Yehia Zakaria
Bootstrap	Yehia Zakaria
SQL	Yehia Zakaria
C#	Mohamed Foly
HTML	Mohamed Foly
CSS	Mohamed Foly
Bootstrap	Mohamed Foly
SQL	Mohamed Foly
Python	Abdo goda
HTML	Abdo goda
CSS	Abdo goda
C#	Mahmoud Abu Def
HTML	Mahmoud Abu Def
CSS	Mahmoud Abu Def
Bootstrap	Mahmoud Abu Def
SQL	Mahmoud Abu Def
Python	Abdo goda
HTML	Abdo goda
CSS	Abdo goda

### YMF.Display\_student\_and\_his\_Courses

## Triggers:



### correct\_Exam\_For\_Student:

correct exam for student and display success or not.



### correct\_Exam\_For\_Student\_Update:

if student update answer correct exam for student and display success or not.

## Users:

*Admin : manage all database tables and objects*

*supervisor : manage branch*

*-Student : see exam in specific time and answer*

**-Instructor:** *create exam and can create question and select student to Take exam*

## Functions:

- ***YMF.Student\_Status\_Result***  
*Check and return result and status success or not*
- ***YMF.select\_Exam\_To\_Student\_in\_specific\_Date:***  
*Display student that has exam and date of exam*