

ITI Examination System

(Database Documentation)

Track: **Power BI Development**

Branch: **Fayoum**

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Mar. 2025

Acknowledgment

We extend our deepest gratitude to the Information Technology Institute (ITI) for providing us with the opportunity, resources, and guidance to develop this project. A special appreciation to our **instructors and mentors** for their invaluable guidance, support, and inspiration throughout this journey.

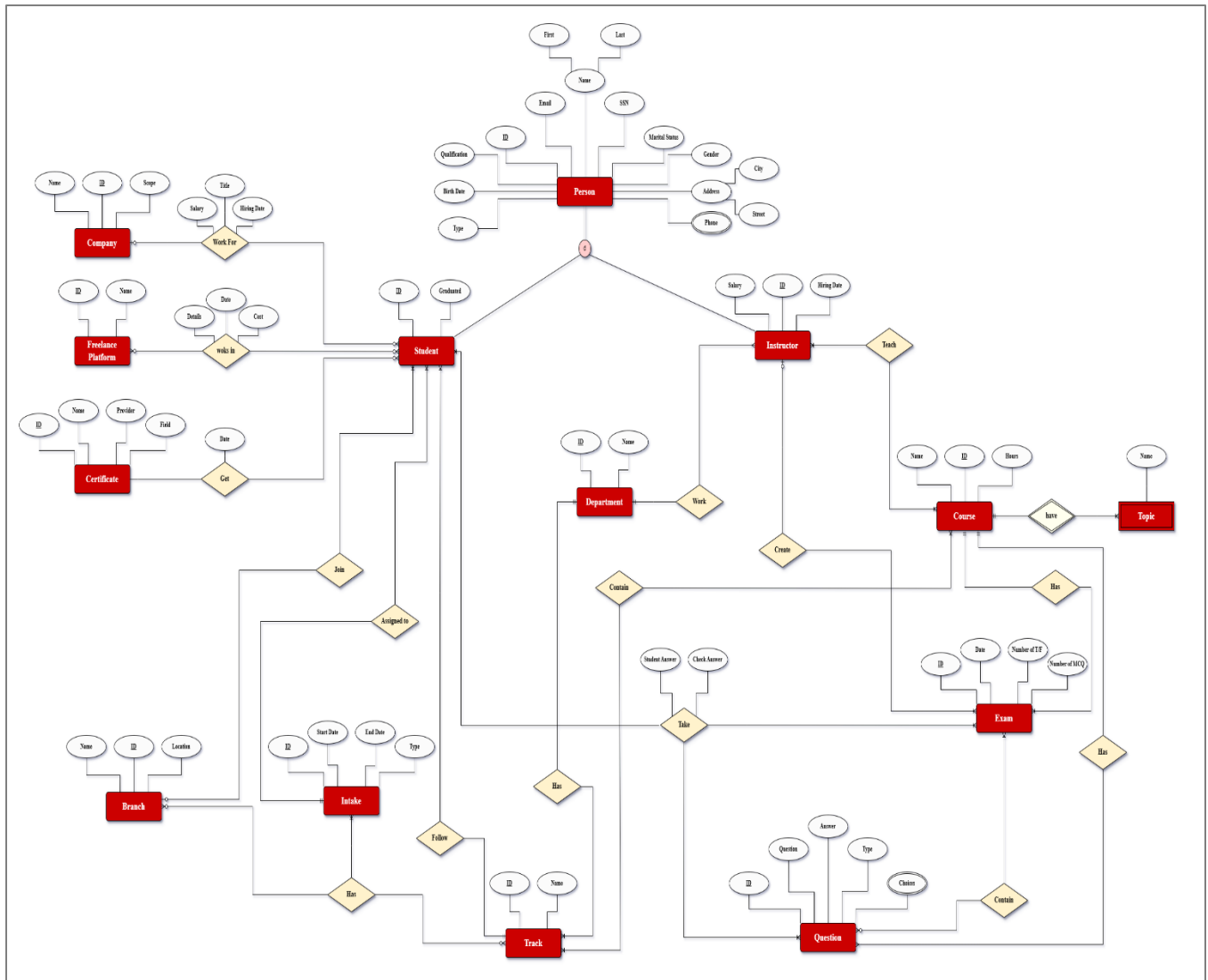
We also extend our gratitude to our **peers**, whose collaboration and insights enriched our learning experience.

Thank you all for your support and encouragement.

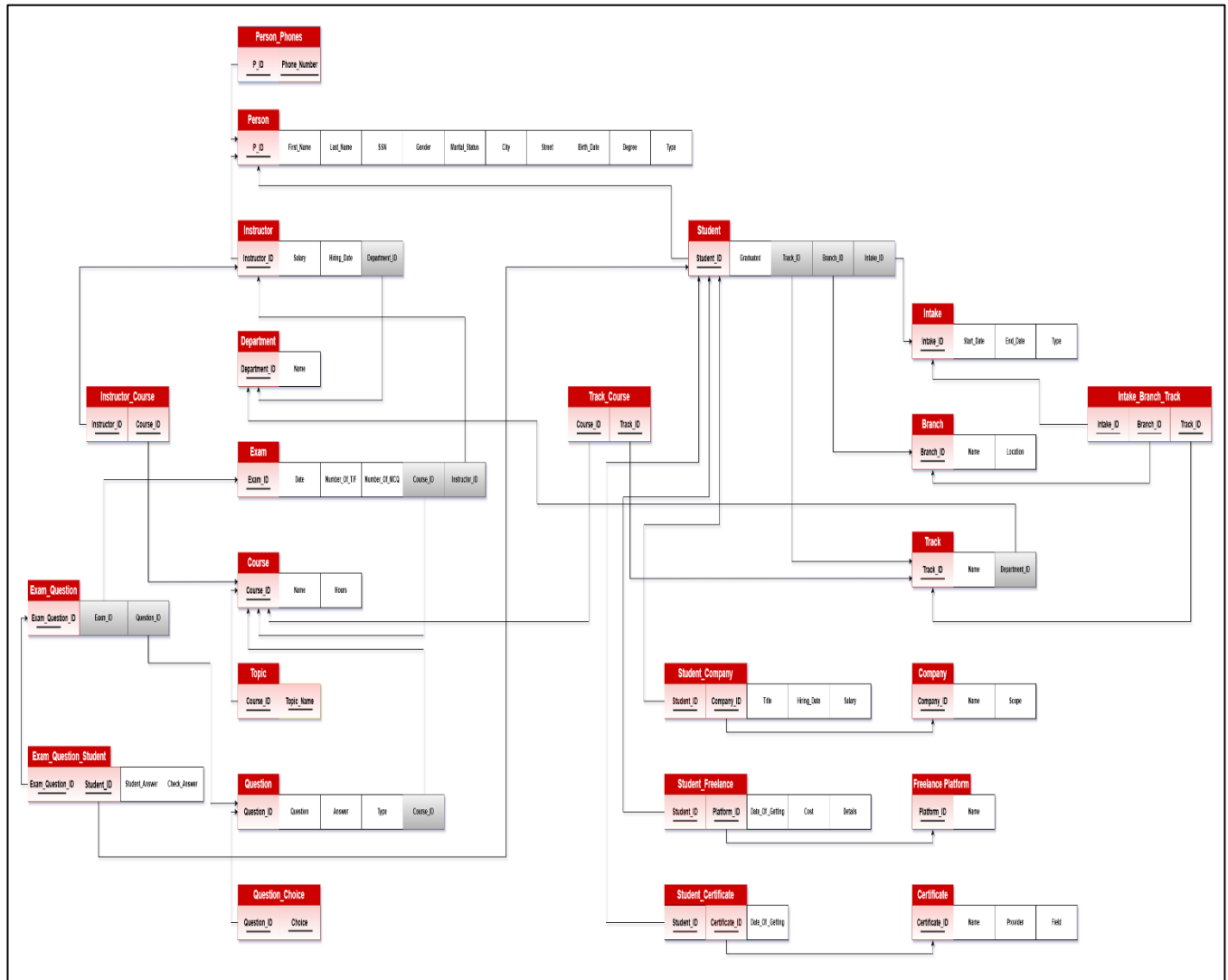
Table Of Content

1. ERD.....	4
2. Mapping.....	5
3. Schema.....	6
4. Database Tables.....	7
5. Stored Procedures.....	20

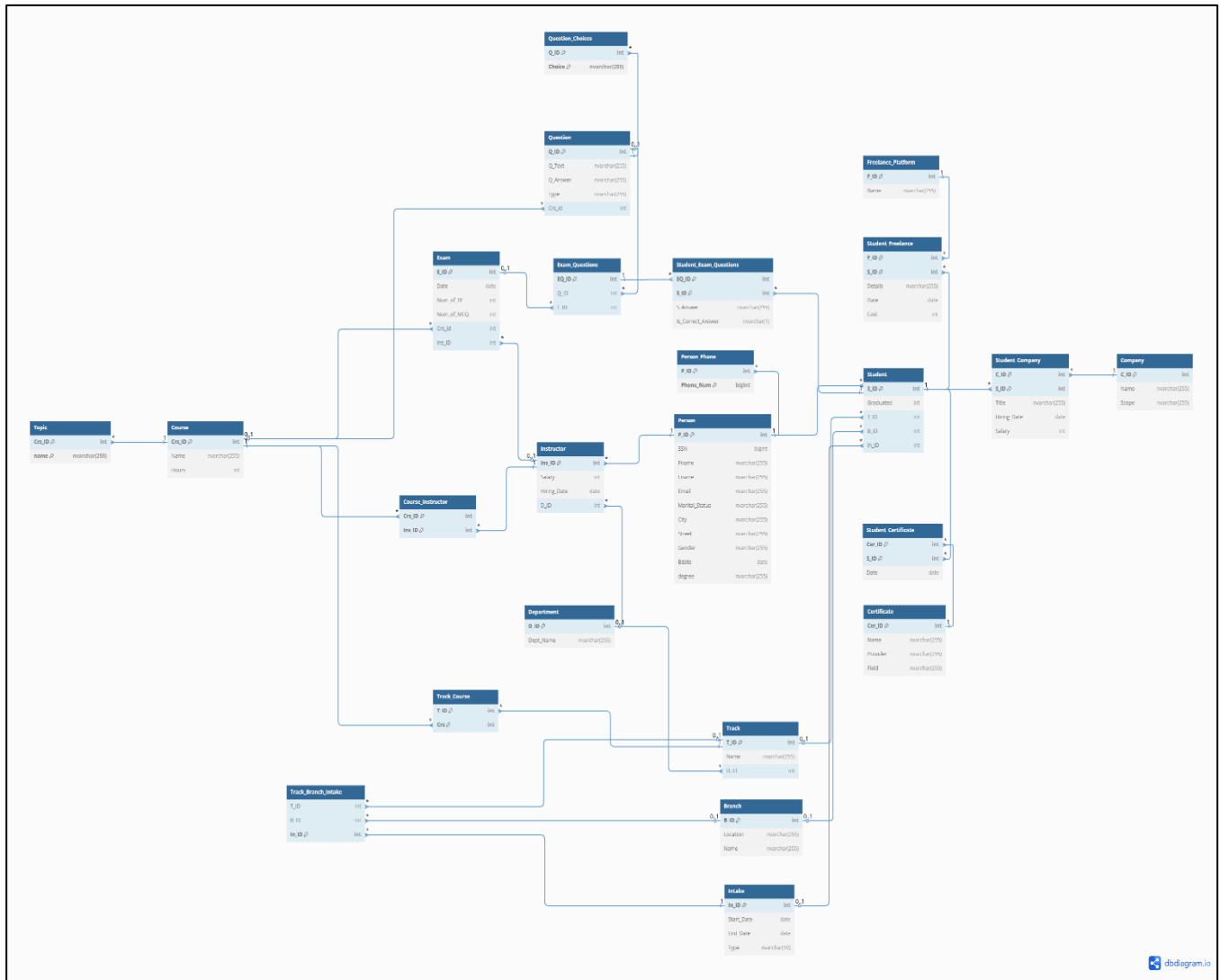
ERD



Mapping



Schema



Database Tables

1	dbo.Branch
2	dbo.Certificate
3	dbo.Company
4	dbo.Course
5	dbo.Course_Instructor
6	dbo.Department
7	dbo.Exam
8	dbo.Exam_Question
9	dbo.FreelancePlatform
10	dbo.Instructor
11	dbo.Intake
12	dbo.Person
13	dbo.Person_Phone
14	dbo.Question
15	dbo.Question_Choices
16	dbo.Student
17	dbo.Student_Certificate
18	dbo.Student_Company
19	dbo.Student_Exam_Questions
20	dbo.Student_Freelance
21	dbo.Topic
22	dbo.Track
23	dbo.Track_Branch_Intake
24	dbo.Track_Course

1- dbo.Branch

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	B_ID	int	<input type="checkbox"/>
	Location	nvarchar(255)	<input type="checkbox"/>
	Name	nvarchar(255)	<input type="checkbox"/>

2- dbo.Certificate

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	Cer_ID	int	<input type="checkbox"/>
	Name	nvarchar(255)	<input type="checkbox"/>
	Provider	nvarchar(255)	<input type="checkbox"/>
	Field	nvarchar(255)	<input checked="" type="checkbox"/>

3- dbo.Company

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	C_ID	int	<input type="checkbox"/>
	Name	nvarchar(255)	<input type="checkbox"/>
	Scope	nvarchar(255)	<input checked="" type="checkbox"/>

Constraints:

```
CHECK (([Scope]='International' OR [Scope]='Local'))
```


4- dbo.Course

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	Crs_ID	int	<input type="checkbox"/>
	Name	nvarchar(255)	<input type="checkbox"/>
	Hours	int	<input type="checkbox"/>

Constraints:

CHECK ((([Hours]>(0))))

5- dbo.Course_Instructor

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	Crs_ID	int	<input type="checkbox"/>
▶ 🔑	Ins_ID	int	<input type="checkbox"/>

Foreign keys:

Crs_ID → dbo.Course.Crs_ID

Ins_ID → dbo.Instructor.Ins_ID

6- dbo.Department

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	D_ID	int	<input type="checkbox"/>
	Dept_Name	nvarchar(255)	<input type="checkbox"/>

7- dbo.Exam

Columns:

	Column Name	Data Type	Allow Nulls
▶	E_ID	int	<input type="checkbox"/>
	Date	date	<input checked="" type="checkbox"/>
	Num_of_TF	int	<input type="checkbox"/>
	Num_of_MCQ	int	<input type="checkbox"/>
	Crs_id	int	<input type="checkbox"/>
	Ins_ID	int	<input type="checkbox"/>

Foreign keys:

Crs_id → dbo.Course.Crs_ID

Ins_ID → dbo.Instructor.Ins_ID

Constraints:

CHECK ((([Num_of_TF]+[Num_of_MCQ])=(10)))

CHECK (([Num_of_MCQ]>=(0)))

CHECK (([Num_of_TF]>=(0)))

8- dbo.Exam_Questions

Columns:

	Column Name	Data Type	Allow Nulls
▶	EQ_ID	int	<input type="checkbox"/>
	E_ID	int	<input type="checkbox"/>
	Q_ID	int	<input type="checkbox"/>

Foreign keys:

E_ID → dbo.Exam.E_ID

Q_ID → dbo.Question.Q_ID

9- dbo.FreelancePlatform

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	F_ID	int	<input type="checkbox"/>
	Name	nvarchar(255)	<input type="checkbox"/>

10- dbo.Instructor

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	Ins_ID	int	<input type="checkbox"/>
	Salary	int	<input type="checkbox"/>
	Hiring_Date	date	<input checked="" type="checkbox"/>
	D_ID	int	<input type="checkbox"/>

Foreign keys:

Ins_ID → dbo.Person.P_ID

D_ID → dbo.Department.D_ID

Constraints:

CHECK ((([Salary]>(0))))

11- dbo.Intake

Columns:

	Column Name	Data Type	Allow Nulls
PK	In_ID	int	<input type="checkbox"/>
	Start_Date	date	<input checked="" type="checkbox"/>
	End_Date	date	<input checked="" type="checkbox"/>
	Type	nvarchar(10)	<input type="checkbox"/>

Constraints:

CHECK ((([Start_Date]<[End_Date])))

12- dbo.Person

Columns:

	Column Name	Data Type	Allow Nulls
PK	P_ID	int	<input type="checkbox"/>
	SSN	bigint	<input type="checkbox"/>
	Fname	nvarchar(255)	<input type="checkbox"/>
	Lname	nvarchar(255)	<input type="checkbox"/>
	Email	nvarchar(255)	<input type="checkbox"/>
	Marital_Status	nvarchar(255)	<input type="checkbox"/>
	City	nvarchar(255)	<input type="checkbox"/>
	Street	nvarchar(255)	<input checked="" type="checkbox"/>
	Gender	nvarchar(255)	<input type="checkbox"/>
	Bdate	date	<input checked="" type="checkbox"/>
	Degree	nvarchar(255)	<input type="checkbox"/>

Constraints:

```
CHECK ((([Gender]='Female' OR [Gender]='Male'))
```

```
CHECK ((([Marital_Status]='Divorced' OR [Marital_Status]='Single' OR [Marital_Status]='Married'))
```

13- dbo.Person_Phone

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	P_ID	int	<input type="checkbox"/>
🔑	Phone_Num	bigint	<input type="checkbox"/>

Foreign Keys:

P_ID → dbo.Person.P_ID

Constraints:

```
CHECK ((([Phone_Num]>(0))))
```

14- dbo.Question

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	Q_ID	int	<input type="checkbox"/>
	Q_Text	nvarchar(255)	<input type="checkbox"/>
	Q_Answer	nvarchar(255)	<input type="checkbox"/>
	Type	nvarchar(255)	<input type="checkbox"/>
	Crs_id	int	<input type="checkbox"/>

Foreign Keys:

Crs_id → dbo.Course.Crs_ID

Constraints:

```
CHECK ((([Type]='True/False' OR [Type]='MCQ')))
```

15- dbo.Question_Choices

Columns:

	Column Name	Data Type	Allow Nulls
PK	Q_ID	int	<input type="checkbox"/>
	Choice	nvarchar(255)	<input type="checkbox"/>

Foreign Keys:

Q_ID → dbo.Question.Q_ID

16- dbo.Student

Columns:

	Column Name	Data Type	Allow Nulls
PK	S_ID	int	<input type="checkbox"/>
	Graduated	bit	<input type="checkbox"/>
	T_ID	int	<input type="checkbox"/>
	B_ID	int	<input type="checkbox"/>
	In_ID	int	<input type="checkbox"/>

Foreign Keys:

S_ID → dbo.Person.P_ID

T_ID → dbo.Track.T_ID

B_ID → dbo.Branch.B_ID

In_ID → dbo.Intake.In_ID

17- dbo.Student_Certificate

Columns:

	Column Name	Data Type	Allow Nulls
PK	Cer_ID	int	<input type="checkbox"/>
FK	S_ID	int	<input type="checkbox"/>
	Date	date	<input checked="" type="checkbox"/>

Foreign Keys:

Cer_ID → dbo.Certificate.Cer_ID

S_ID → dbo.Student.S_ID

18- dbo.Student_Company

Columns:

	Column Name	Data Type	Allow Nulls
PK	C_ID	int	<input type="checkbox"/>
FK	S_ID	int	<input type="checkbox"/>
	Title	nvarchar(255)	<input type="checkbox"/>
	Hiring_Date	date	<input checked="" type="checkbox"/>
	Salary	int	<input checked="" type="checkbox"/>

Foreign Keys:

C_ID → dbo.Company.C_ID

S_ID → dbo.Student.S_ID

Constraints:

CHECK ((([Salary]>(0))))

19- dbo.Student_Exam_Questions

Columns:

	Column Name	Data Type	Allow Nulls
PK	EQ_ID	int	<input type="checkbox"/>
FK	S_ID	int	<input type="checkbox"/>
	S_Answer	nvarchar(255)	<input checked="" type="checkbox"/>
	Is_Correct_Answer	bit	<input checked="" type="checkbox"/>

Foreign Keys:

EQ_ID → dbo.Exam_Questions.EQ_ID

S_ID → dbo.Student.S_ID

20- dbo.Student_Freelance

Columns:

	Column Name	Data Type	Allow Nulls
PK	F_ID	int	<input type="checkbox"/>
FK	S_ID	int	<input type="checkbox"/>
	Details	nvarchar(255)	<input type="checkbox"/>
	Date	date	<input checked="" type="checkbox"/>
	Cost	int	<input type="checkbox"/>

Foreign Keys:

F_ID → dbo.FreelancePlatform.F_ID

S_ID → dbo.Student.S_ID

Constraints:

CHECK ((([Cost]>(0))))

21- dbo.Topic

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	Crs_ID	int	<input type="checkbox"/>
🔑	Name	nvarchar(255)	<input type="checkbox"/>

Foreign Keys:

Crs_ID → dbo.Course.Crs_ID

22- dbo.Track

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	T_ID	int	<input type="checkbox"/>
	Name	nvarchar(255)	<input type="checkbox"/>
	D_ID	int	<input type="checkbox"/>

Foreign Keys:

D_ID → dbo.Department.D_ID

23- dbo.Track_Branch_Intake

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	T_ID	int	<input type="checkbox"/>
🔑	B_ID	int	<input type="checkbox"/>
🔑	In_ID	int	<input type="checkbox"/>

Foreign Keys:

T_ID → dbo.Track.T_ID

B_ID → dbo.Branch.B_ID

In_ID → dbo.Intake.In_ID

24- dbo.Track_Course

Columns:

	Column Name	Data Type	Allow Nulls
▶ 🔑	T_ID	int	<input type="checkbox"/>
🔑	Crs_ID	int	<input type="checkbox"/>

Foreign Keys:

T_ID → dbo.Track.T_ID

Crs_ID → dbo.Course.Crs_ID

Stored Procedures

CRUD Stored Procedures:

- **Select**

1	dbo.Select_Certificates
2	dbo.Select_Companies
3	dbo.select_dep
4	dbo.select_free
5	dbo.Select_Instructor
6	dbo.Select_Person
7	dbo.Select_Student
8	dbo.select_top
9	dbo.SelectFromPerson_Phone
10	dbo.SelectFromQuestion
11	dbo.SelectFromQuestion_Choices
12	dbo.SelectFromTrack
13	dbo.GetBranchByID
14	dbo.GetExamByID
15	dbo.Get_All_Courses
16	dbo.Get_All_intakes

1- dbo.Select_Certificates

Description:

Select from table Certificate.

Parameters:

No Parameters

2- dbo.Select_Companies

Description:

Select from table Company.

Parameters:

No Parameters

3- dbo.select_dep

Description:

Select from table Department.

Parameters:

Name	Data Type
@dep_name	nvarchar(max)

4- dbo.select_free

Description:

Select from table FreelancePlatform.

Parameters:

Name	Data Type
@free_name	nvarchar(max)

5- dbo.Select_Instructor

Description:

Select from table Instructor.

Parameters:

Name	Data Type
@Ins_ID	Int

6- dbo.Select_Person

Description:

Select from table Person.

Parameters:

Name	Data Type
@P_ID	Int

7- dbo.Select_Student

Description:

Select from table Student.

Parameters:

Name	Data Type
@S_ID	Int

8- dbo.select_top

Description:

Select from table Topic.

Parameters:

Name	Data Type
@crs_id	Int

9- dbo.SelectFromPerson_Phone

Description:

Select from table Person_Phone.

Parameters:

Name	Data Type
@person_id	Int

10- dbo.SelectFromQuestion

Description:

Select from table Question.

Parameters:

Name	Data Type
@question_id	Int

11- dbo.SelectFromQuestion_Choices

Description:

Select from table Question_Choices.

Parameters:

Name	Data Type
@question_id	Int

12- dbo.SelectFromTrack

Description:

Select from table Track.

Parameters:

Name	Data Type
@track_id	Int

13- dbo.GetBranchByID

Description:

Select from table Branch.

Parameters:

Name	Data Type
@B_ID	Int

14- dbo.GetExamByID

Description:

Select from table Exam.

Parameters:

Name	Data Type
@E_ID	Int

15- dbo.Get_All_Courses

Description:

Select from table Course.

Parameters:

No Parameters

15- dbo.Get_All_intakes

Description:

Select from table Intake.

Parameters:

No Parameters

- **Insert**

1	dbo.Insert_Certificate
2	dbo.Insert_Company
3	dbo.Insert_Course
4	dbo.insert_dep
5	dbo.insert_free
6	dbo.Insert_Instructor
7	dbo.Insert_Intake
8	dbo.Insert_Person
9	dbo.Insert_Student
10	dbo.insert_top
11	dbo.InsertBranch
12	dbo.InsertExam
13	dbo.InsertIntoPerson_Phone
14	dbo.InsertIntoQuestion
15	dbo.InsertIntoQuestion_Choices
16	dbo.InsertIntoTrack

1- dbo.Insert_Certificate

Description:

Insert into table Certificate.

Parameters:

Name	Data Type
@Cer_ID	Int
@Name	NVARCHAR(20)
@Provider	NVARCHAR(20)
@Field	NVARCHAR(20)

2- dbo.Insert_Company

Description:

Insert into table Company.

Parameters:

Name	Data Type
@C_ID	Int
@Name	NVARCHAR(20)
@Scope	NVARCHAR(20)

3- dbo.Insert_Course

Description:

Insert into table Course.

Parameters:

Name	Data Type
@Course_Name	NVARCHAR(255)
@Hours	Int

4- dbo.insert_dep

Description:

Insert into table Department.

Parameters:

Name	Data Type
@dep_name	NVARCHAR(MAX)

5- dbo.insert_free

Description:

Insert into table FreelancePlatform.

Parameters:

Name	Data Type
@free_name	NVARCHAR(MAX)

6- dbo.Insert_Instructor

Description:

Insert into table Instructor.

Parameters:

Name	Data Type
@Ins_ID	Int
@D_ID	Int
@Salary	Int
@Hiring_Date	Date

7- dbo.Insert_Intake

Description:

Insert into table Intake.

Parameters:

Name	Data Type
@Start_Date	Date
@End_Date	Date
@Type	NVARCHAR(10)

8- dbo.Insert_Person

Description:

Insert into table Person.

Parameters:

Name	Data Type
@SSN	Int
@Fname	NVARCHAR(20)
@Lname	NVARCHAR(20)
@Email	NVARCHAR(100)
@City	NVARCHAR(20)

@Street	NVARCHAR(20)
@Gender	NVARCHAR(20)
@Bdate	Date
@Degree	NVARCHAR(100)
@Marital_State	NVARCHAR(10)

9- dbo.Insert_Student

Description:

Insert into table Student.

Parameters:

Name	Data Type
@S_ID	Int
@Graduated	NVARCHAR(20)
@T_ID	Int
@B_ID	Int
@In_ID	Int

10- dbo.insert_top

Description:

Insert into table Topic.

Parameters:

Name	Data Type
@crs_id	Int
@top_name	NVARCHAR(MAX)

11- dbo.InsertBranch

Description:

Insert into table Branch.

Parameters:

Name	Data Type
@Location	NVARCHAR(20)
@Name	NVARCHAR(30)

12- dbo.InsertExam

Description:

Insert into table Exam.

Parameters:

Name	Data Type
@Date	Date
@Num_of_TF	Int
@Num_of_MCQ	Int
@Crs_id	Int
@Ins_ID	Int

13- dbo.InsertIntoPerson_Phone

Description:

Insert into table Person_Phone.

Parameters:

Name	Data Type
@person_id	Int
@phone	Bigint

14- dbo.InsertIntoQuestion

Description:

Insert into table Question.

Parameters:

Name	Data Type
@question	NVARCHAR(200)
@answer	NVARCHAR(100)
@type	NVARCHAR(10)
@course_id	Int

15- dbo.InsertIntoQuestion_Choices

Description:

Insert into table Question_Choices.

Parameters:

Name	Data Type
@question_id	Int
@choice	NVARCHAR(100)

16- dbo.InsertIntoTrack

Description:

Insert into table Track.

Parameters:

Name	Data Type
@name	NVARCHAR(50)
@department_id	Int

- **Update**

1	dbo.Update_Certificate
2	dbo.Update_Company
3	dbo.Update_Course
4	dbo.update_dep
5	dbo.update_free
6	dbo.Update_Instructor
7	dbo.Update_Intake
8	dbo.Update_Person
9	dbo.Update_Student
10	dbo.update_top
11	dbo.UpdateBranch
12	dbo.UpdateExam
13	dbo.UpdatePerson_Phone
14	dbo.UpdateQuestion
15	dbo.UpdateQuestion_Choices
16	dbo.UpdateTrack

1- dbo.Update_Certificate

Description:

Update table Certificate.

Parameters:

Name	Data Type
@Cer_ID	Int
@Name	NVARCHAR(20)
@Provider	NVARCHAR(20)
@Field	NVARCHAR(20)

2- dbo.Update_Company

Description:

Update table Company.

Parameters:

Name	Data Type
@C_ID	Int
@Name	NVARCHAR(20)
@Scope	NVARCHAR(20)

3- dbo.Update_Course

Description:

Update table Course.

Parameters:

Name	Data Type
@Crs_ID	Int
@Course_Name	NVARCHAR(255)
@Course_Description	NVARCHAR(500)
@Credit_Hours	Int

4- dbo.update_dep

Description:

Update table Department.

Parameters:

Name	Data Type
@dep_name	NVARCHAR(MAX)
@upd_name	NVARCHAR(MAX)

5- dbo.update_free

Description:

Update table FreelancePlatform.

Parameters:

Name	Data Type
@free_name	NVARCHAR(MAX)
@upd_name	NVARCHAR(MAX)

6- dbo.Update_Instructor

Description:

Update table Instructor.

Parameters:

Name	Data Type
@Ins_ID	Int
@D_ID	Int
@Salary	Int
@Hiring_Date	Date

7- dbo.Update_Intake

Description:

Update table Intake.

Parameters:

Name	Data Type
@In_ID	Int
@Start_Date	Date
@End_Date	Date
@Type	NVARCHAR(10)

8- dbo.Update_Person

Description:

Update table Person.

Parameters:

Name	Data Type
@P_ID	Int
@SSN	Int
@Fname	NVARCHAR(20)
@Lname	NVARCHAR(20)
@Email	NVARCHAR(200)
@City	NVARCHAR(20)
@Street	NVARCHAR(20)
@Gender	NVARCHAR(20)
@Bdate	Date
@Degree	NVARCHAR(100)
@Marital_State	NVARCHAR(10)

9- dbo.Update_Student

Description:

Update table Student.

Parameters:

Name	Data Type
@S_ID	Int
@T_ID	Int
@B_ID	Int
@In_ID	Int
@Graduated	NVARCHAR(20)

10- dbo.update_top

Description:

Update table Topic.

Parameters:

Name	Data Type
@crs_id	Int
@top_name	NVARCHAR(MAX)
@upd_name	NVARCHAR(MAX)

11- dbo.UpdateBranch

Description:

Update table Branch.

Parameters:

Name	Data Type
@B_ID	Int
@Location	NVARCHAR(20)
@Name	NVARCHAR(30)

12- dbo.UpdateExam

Description:

Update table Exam.

Parameters:

Name	Data Type
@E_ID	Int
@Date	Date
@Num_of_TF	Int
@Num_of_MCQ	Int
@Crs_id	Int
@Ins_ID	Int

13- dbo.UpdatePerson_Phone

Description:

Update table Person_Phone.

Parameters:

Name	Data Type
@person_id	Int
@old_phone	Bigint
@new_phone	Bigint

14- dbo.UpdateQuestion

Description:

Update table Question.

Parameters:

Name	Data Type
@question_id	Int
@question	NVARCHAR(200)
@answer	NVARCHAR(100)
@type	NVARCHAR(10)
@course_id	Int

15- dbo.UpdateQuestion_Choices

Description:

Update table Question_Choices.

Parameters:

Name	Data Type
@question_id	Int
@old_choice	NVARCHAR(100)
@new_choice	NVARCHAR(100)

16- dbo.UpdateTrack

Description:

Update table Track.

Parameters:

Name	Data Type
@track_id	Int
@new_name	NVARCHAR(50)
@new_department_id	Int

- **Delete**

1	dbo.Delete_Certificate
2	dbo.Delete_Company
3	dbo.Delete_Course
4	dbo.del_dep
5	dbo.del_free
6	dbo.Delete_Instructor
7	dbo.Delete_Intake
8	dbo.Delete_Person
9	dbo.Delete_Student
10	dbo.del_top
11	dbo.DeleteBranch
12	dbo.DeleteExam
13	dbo.DeleteFromPerson_Phone
14	dbo.DeleteFromQuestion
15	dbo.DeleteFromQuestion_Choices
16	dbo.DeleteFromTrack

1- dbo.Delete_Certificate

Description:

Delete from table Certificate.

Parameters:

Name	Data Type
@Cer_ID	Int

2- dbo.Delete_Company

Description:

Delete from table Company.

Parameters:

Name	Data Type
@C_ID	Int

3- dbo.Delete_Course

Description:

Delete from table Course.

Parameters:

Name	Data Type
@Course_ID	Int

4- dbo.del_dep

Description:

Delete from table Department.

Parameters:

Name	Data Type
@dep_name	NVARCHAR(MAX)

5- dbo.del_free

Description:

Delete from table FreelancePlatform.

Parameters:

Name	Data Type
@free_name	NVARCHAR(MAX)

6- dbo.Delete_Instructor

Description:

Delete from table Instructor.

Parameters:

Name	Data Type
@Ins_ID	Int
@D_ID	Int

7- dbo.Delete_Intake

Description:

Delete from table Intake.

Parameters:

Name	Data Type
@In_ID	Int

8- dbo.Delete_Person

Description:

Delete from table Person.

Parameters:

Name	Data Type
@P_ID	Int

9- dbo.Delete_Student

Description:

Delete from table Student.

Parameters:

Name	Data Type
@S_ID	Int

10- dbo.del_top

Description:

Delete from table Topic.

Parameters:

Name	Data Type
@crs_id	Int
@top_name	NVARCHAR(MAX)

11- dbo.DeleteBranch

Description:

Delete from table Branch.

Parameters:

Name	Data Type
@B_ID	Int

12- dbo.DeleteExam

Description:

Delete from table Exam.

Parameters:

Name	Data Type
@E_ID	Int

13- dbo.DeleteFromPerson_Phone

Description:

Delete from table Person_Phone.

Parameters:

Name	Data Type
@person_id	Int
@phone	Bigint

14- dbo.DeleteFromQuestion

Description:

Delete from table Question.

Parameters:

Name	Data Type
@question_id	Int

15- dbo.DeleteFromQuestion_Choices

Description:

Delete from table Question_Choices.

Parameters:

Name	Data Type
@question_id	Int
@choice	NVARCHAR(100)

16- dbo.DeleteFromTrack

Description:

Delete from table Track.

Parameters:

Name	Data Type
@track_id	Int

Exam Stored Procedures:

1	dbo.GenerateExam
2	dbo.Exam_ans
3	dbo.Exam_Correction

1- dbo.GenerateExam

Description:

This stored procedure generates an exam based on the provided exam date, the number of True or False questions, the number of MCQ questions, the course ID, and the instructor ID who is creating the exam.

Parameters:

Name	Data Type
@ExamDate	Date
@NumMCQ	Int
@NumTF	Int
@Course_ID	Int
@Instructor_ID	Int

2- dbo.Exam_ans

Description:

This stored procedure records a student's exam submission by taking the student ID, the exam ID, and the ten answers provided for the exam.

Parameters:

Name	Data Type
@s_id	Int
@e_id	Int
@ans1	NVARCHAR(MAX)
@ans2	NVARCHAR(MAX)
@ans3	NVARCHAR(MAX)
@ans4	NVARCHAR(MAX)
@ans5	NVARCHAR(MAX)
@ans6	NVARCHAR(MAX)
@ans7	NVARCHAR(MAX)

@ans8	NVARCHAR(MAX)
@ans9	NVARCHAR(MAX)
@ans10	NVARCHAR(MAX)

3- dbo.Exam_Correction

Description:

This stored procedure grades a student's exam by taking the student ID and the exam ID, then evaluates the student's answers and returns the final score.

Parameters:

Name	Data Type
@s_id	Int
@ex_id	Int

Reports Stored Procedures:

1	dbo.GetStudentsByDepartment
2	dbo.GetStudentGrades
3	dbo.ins_info
4	dbo.crs_topics
5	dbo.GetExamQuestions
6	dbo.show_qu

1- dbo.GetStudentsByDepartment

Description:

This stored procedure retrieves all departments along with the students enrolled in each department without requiring any input parameters.

Parameters:

No Parameters.

2- dbo.GetStudentGrades

Description:

This stored procedure takes the student ID and returns the grades of the student in all courses.

Parameters:

Name	Data Type
@StudentID	Int

3- dbo.ins_info

Description:

This stored procedure takes the instructor ID and returns the names of the courses they teach along with the number of students enrolled in each course.

Parameters:

Name	Data Type
@ins_ID	Int

4- dbo.crs_topics

Description:

This stored procedure takes the course ID and returns its topics.

Parameters:

Name	Data Type
@course_id	Int

5- dbo.GetExamQuestions

Description:

This stored procedure takes the exam ID and returns the questions included in the exam along with their choices.

Parameters:

Name	Data Type
@ex_id	Int

6- dbo.show_qu

Description:

This stored procedure takes the exam ID and the student ID, then returns the questions in the exam along with the student's answers.

Parameters:

Name	Data Type
@exam_id	Int
@stu_id	Int