
ITI



Online Examination System

ITI

11/30/2021

Notice: This document constitutes graduation project information of Information Technology Institute *ITI, Intensive Code Camp, Business Intelligence Track, Q1 2021 2022*

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Table of History

VERSION NO.	UPDATES DESCRIPTION	UPDATED BY	UPDATE DATE	NOTES
v1.0	SRS created	Salma Malh	Created 30/10/21	Recorded 30/10/2021
V1.0	SRS modified	Salma Malh	15/11/21	
V1.0	SRS finished	Salma Malh	30/11/2021	Last version



Business Summary

Purpose:

Constructing a fully automated examination system in order to perform online exams by instructors and students, in addition, to be automatically corrected based on stored questions and their model answers, using desktop and web apps.

Starting with designing and building SQL database, in addition to building software solutions, ending with system reports and dashboards.

System dimensions and scope:

- ❖ Desktop app
- ❖ Reporting app
- ❖ Web app
- ❖ Dashboards

System users:

- ❖ Student
- ❖ Instructor
- ❖ Manager



System Entities & Attributes:

- | | | |
|--------------|--------------------|---------------------|
| ❖ Student | ❖ Topic | ❖ Exam_Taken |
| ❖ Department | ❖ Exam | ❖ Student_Course |
| ❖ Instructor | ❖ Question | ❖ Student_Phone |
| ❖ Course | ❖ Question_Choices | ❖ Instructor_Course |

Out of the scope:

- ❖ API
- ❖ Third-Party Tools

Technologies and Tools:

- | | | |
|-------------------------------|-----------------|-----------|
| ❖ Microsoft SQL Server | ❖ T-SQL | ❖ PyCharm |
| ❖ SQL Server Reporting System | ❖ Visual Studio | |
| SSIS | ❖ C# | |
| | ❖ Python | |
| | ❖ Power BI | |

Detailed Requirement

In order for the system to simulate what will actually happen; The application have to be implemented with the following features:

Description	<p>Through these applications, users can use one or more:</p> <ul style="list-style-type: none">● Examination Desktop App Through this application, student can:<ul style="list-style-type: none">— Login to take a particular exam— Register to make a new account— Take an exam— Display and preview the exam result— View the following pop-up buttons:<ul style="list-style-type: none">▪ About ITI▪ Support▪ Before Exam● Examination Web App Through this application, student can:<ul style="list-style-type: none">— Login to take a particular exam— Register to make a new account— Take an exam— Display and preview the exam result— View the following pop-up buttons:<ul style="list-style-type: none">▪ About ITI▪ Support▪ Before Exam● Reporting App Through this application, ITI staff can:<ul style="list-style-type: none">— Display system reports— Login as instructor— Login as manager— View the following pop-up buttons:<ul style="list-style-type: none">▪ About ITI▪ Support▪ How it works
Actors	<ul style="list-style-type: none">● Student● Instructor● Manager
Pre-condition	<p>❖ Pop-up Buttons</p> <ul style="list-style-type: none">● About ITI● Support● Before Exam

❖ Login Page

Login is required to make student able to take an exam, where the user is required to enter the following information to be able to log in:

1. Student Email *

- Text box
- Required

2. Student Password *

- Text box
- Required

3. Normal Login

- Button
- The student moves to the “Choose an Exam” screen.

4. Social Login

- Facebook Button
- Twitter Button
- The student moves to the “Choose an Exam” screen.

❖ Registration Page

The user is required to provide the system with the following information for the possibility of registering a new account:

1. Student First Name *

- Text box
- Required

2. Student Middle Name *

- Text box
- Required

3. Student Last Name *

- Text box
- Required

4. Student Gender *

- Radio Button
- Required

5. Student DOB

- Date Picker
- Required

6. Student City *

- Drop Down List
- Required

	<p>7. Student Street</p> <ul style="list-style-type: none"> — Text box — Required <p>8. Student Zip code</p> <ul style="list-style-type: none"> — Text box — Required — Accept only numeric <p>9. Student Email *</p> <ul style="list-style-type: none"> — Text box — Required — Must include @ sign <p>10. Student Password *</p> <ul style="list-style-type: none"> — Text box — Required <p>11. Re-enter your Password *</p> <ul style="list-style-type: none"> — Text box — Required <p>12. Register</p> <ul style="list-style-type: none"> — Button — The student moves to the “Home” screen.
--	--

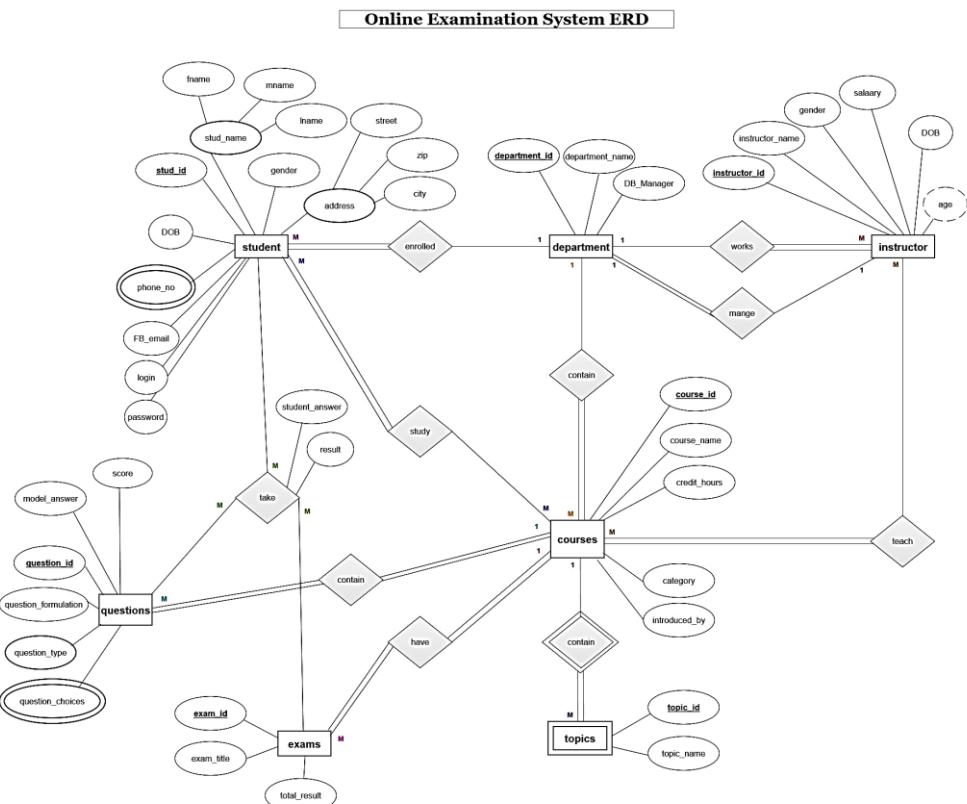
Process for Examination Desktop App	No.	Process Name	Steps	
			1.	2.
	1	<u>Choose an Exam</u>	<p>Welcoming message:</p> <ul style="list-style-type: none"> — Title 	<p>Choose an exam:</p> <ul style="list-style-type: none"> — Exam lists — Radio Buttons to choose one of the exams

			No.	Steps
2	<u>Exam Screen</u>		1.	Exam Title: → Data show
			2.	Question List: → Question number → Question formulation → Question choices radio buttons
			3.	Submit Button: → When user press on, the student moves to the “Result” or “Your Score” screen. → Score appears as a percentage number Close Button: → When user press on, the application will close.
Pre-condition				<p>❖ <u>Pop-up Buttons</u></p> <ul style="list-style-type: none"> • About ITI • Support <p>❖ <u>Login as instructor</u></p> <p>❖ <u>Or login as manager</u></p> <p>Login is required to display system reports:</p> <ol style="list-style-type: none"> 1. User ID * <ul style="list-style-type: none"> → Text box → Required 2. Name * <ul style="list-style-type: none"> → Text box → Required 3. Login <ul style="list-style-type: none"> → Button → The ITI staff moves to the “Choose a Report to Display” screen. → All reports appear according to different authorities.
Process for Reporting Desktop App	No.	Process Name	Steps	
1	<u>Choose a Report to Display</u>		1.	Welcoming message: → Title
			2.	Choose a report: → Report lists

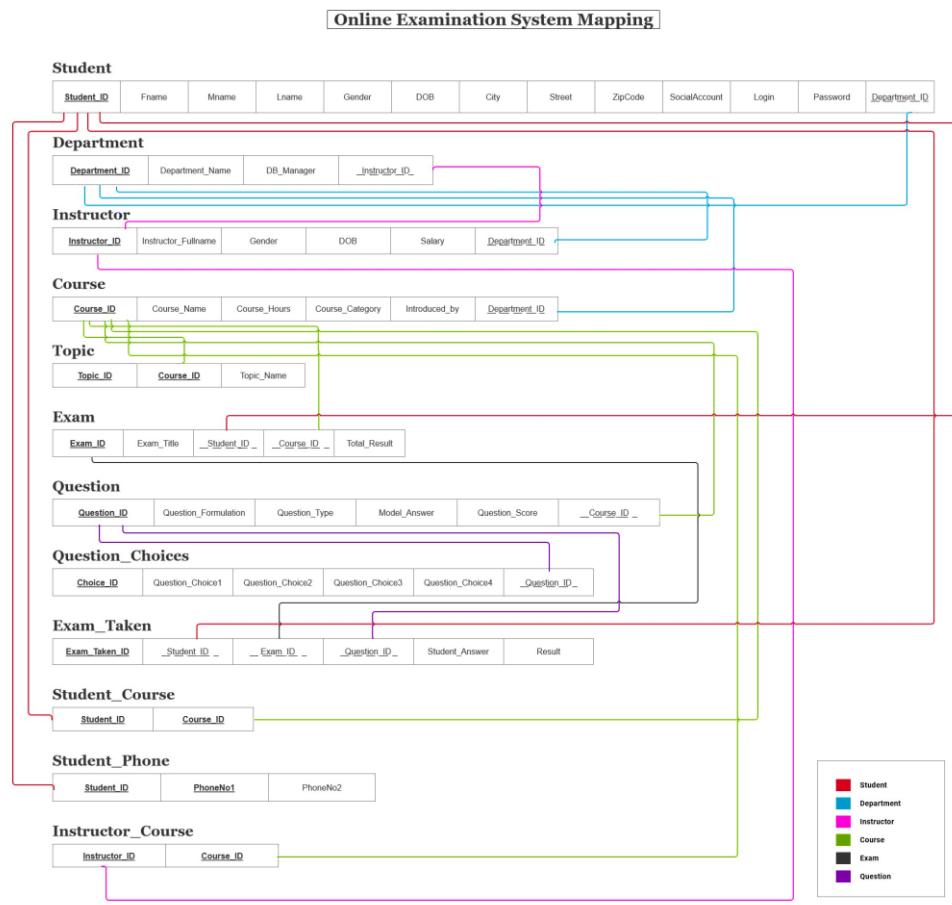
				<ul style="list-style-type: none"> → Buttons to choose one of the reports <p>Notice:</p> <ul style="list-style-type: none"> → 4 reports appear to user who login as an instructor → 6 reports appear to user who login as a manager
			3.	<p>Previous button:</p> <ul style="list-style-type: none"> → The user moves to the “Login” screen. <p>Next Button:</p> <ul style="list-style-type: none"> → The user moves to the “Report” screen.
	2	Report Screen	No.	Steps
		1.	Report Title:	<ul style="list-style-type: none"> → Data show
		2.	Report Table:	<ul style="list-style-type: none"> → Appears according to button names
		3.	Close Report:	<ul style="list-style-type: none"> → When user press on, the application will close.
Process for Examination web App		No.	Process Name	Steps
		1.	Choose an Exam	<p>Welcoming message:</p> <ul style="list-style-type: none"> → Title
		2.		<p>Choose an exam:</p> <ul style="list-style-type: none"> → Exam lists → Radio Buttons to choose one of the exams
		3.		<p>Choose an exam:</p> <ul style="list-style-type: none"> → Exam lists → Radio Buttons to choose one of the exams
		4.		<p>Previous button:</p> <ul style="list-style-type: none"> → The student moves to the “Login” screen. <p>Next Button:</p> <ul style="list-style-type: none"> → The student moves to the “Exam” screen.
	2	No.	Exam Screen	Steps
		1.		<p>Exam Title:</p> <ul style="list-style-type: none"> → Data show

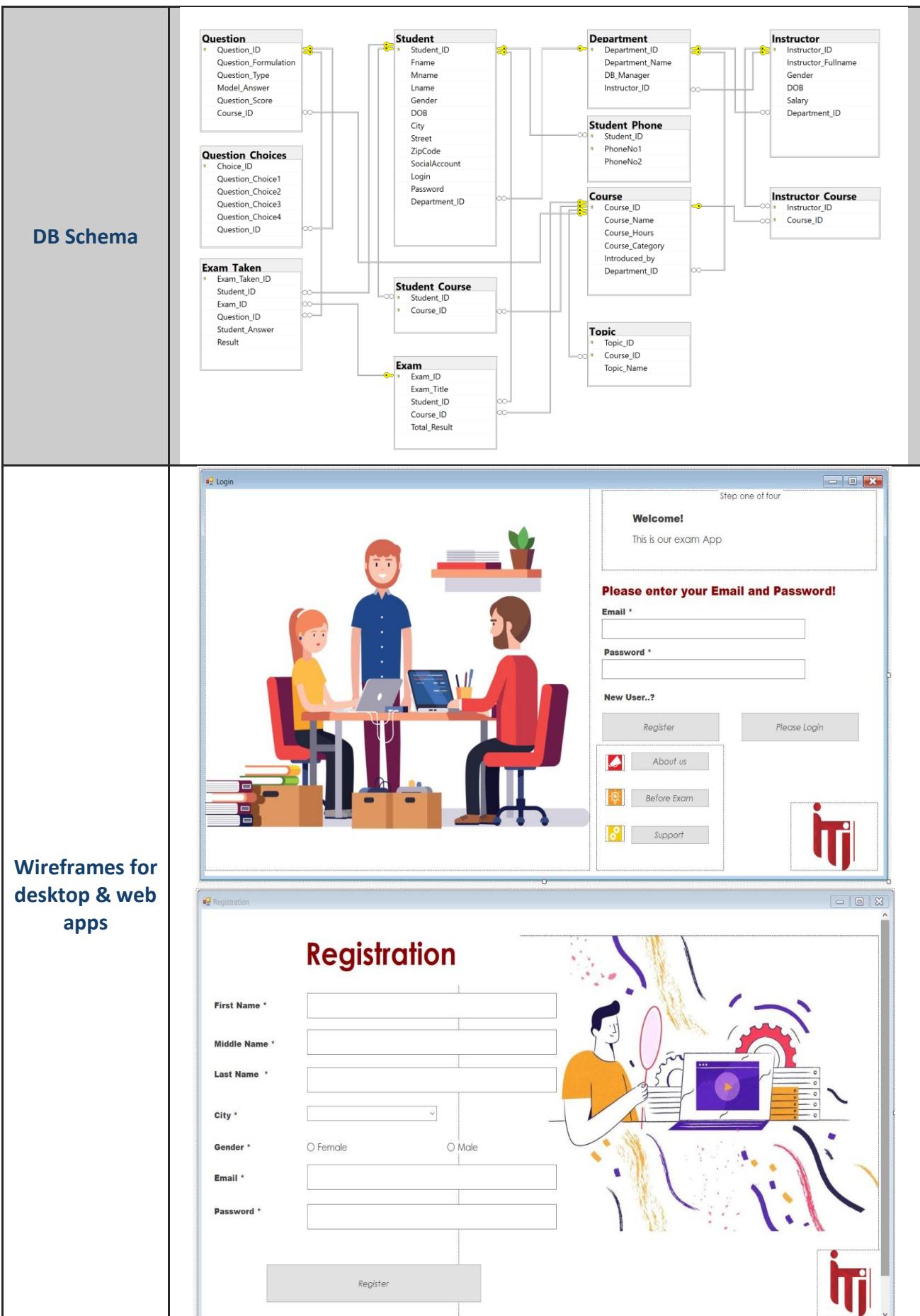
			2.	Question List: <ul style="list-style-type: none">→ Question number→ Question formulation→ Question choices radio buttons		
			3.	Submit Button: <ul style="list-style-type: none">→ When user press on, the student moves to the “Result” or “Your Score” screen.→ Score appears as a percentage number Close Button: <ul style="list-style-type: none">→ When user press on, the application will close.		
Post-condition	<ul style="list-style-type: none">• Sign out					
Design Notes and Constraints	<ul style="list-style-type: none">• There is an * after each of the labels for the required field in black.• It turns red in case of saving without entering.• When entering and exiting the control, it returns to the black color.					
Validation	No.	Control	Action	Event	Message	Type
Documentation files	<ul style="list-style-type: none"> • https://drive.google.com/drive/folders/1Usel3gexUkhzvN8A0-F17m0oBYozF4 • Pdf files:  <div style="display: flex; justify-content: space-around; margin-top: 10px;">  coursesform.pdf  examination_app documentation.pdf  examination_app documentation.sql  examination_app(m ain).pdf  exampage.pdf </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;">  loginform.pdf  registration.pdf  scoreform.pdf  SQLQuery_SP.sql  Examination_System .bak </div> <div style="text-align: center; margin-top: 10px;">  Dashboards.pbix </div>					

ERD



Mapping





Form1

Step two of four

Hello *StudentName*

Please choose your enrolled course

Register Login Choose course Take exam View results

SQL
Python
C#

Enter my exam

label11 exam

Exam no. label14

label1
label2
label3
label4
label5
label6
label7
label8
label9
label10

1	<input type="radio"/> radioButton1	<input type="radio"/> radioButton2	<input type="radio"/> radioButton3	<input checked="" type="radio"/> radioButton4
2	<input type="radio"/> radioButton6	<input type="radio"/> radioButton5	<input type="radio"/> radioButton7	<input checked="" type="radio"/> radioButton8
3	<input type="radio"/> radioButton10	<input type="radio"/> radioButton9	<input type="radio"/> radioButton11	<input checked="" type="radio"/> radioButton12
4	<input type="radio"/> radioButton14	<input type="radio"/> radioButton13	<input checked="" type="radio"/> radioButton15	<input type="radio"/> radioButton16
5	<input type="radio"/> radioButton18	<input type="radio"/> radioButton17	<input type="radio"/> radioButton19	<input checked="" type="radio"/> radioButton20
6	<input type="radio"/> radioButton22	<input type="radio"/> radioButton21	<input type="radio"/> radioButton23	<input checked="" type="radio"/> radioButton24
7	<input type="radio"/> radioButton24	<input type="radio"/> radioButton25	<input type="radio"/> radioButton27	<input checked="" type="radio"/> radioButton28
8	<input type="radio"/> radioButton30	<input type="radio"/> radioButton29	<input type="radio"/> radioButton31	<input checked="" type="radio"/> radioButton32
9	<input type="radio"/> radioButton34	<input type="radio"/> radioButton33	<input type="radio"/> radioButton35	<input checked="" type="radio"/> radioButton36
10	<input type="radio"/> radioButton38	<input type="radio"/> radioButton37	<input type="radio"/> radioButton39	<input checked="" type="radio"/> radioButton40

View Results

Form1

Step four of four

Result

Your result is: ----- %

Finish



Online Examination System

Email *

Password *

Remember me

[Forgot your password?](#)

Login

Don't have an account

Register



Online Examination System

Fname *

Mname *

Lname *

Gender *

Male Female

City *

Street

Zip code

Date of Birth

Email *

Password *

Confirm password *

Accept terms and policy

Register

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INSTRUCTOR NAME

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Qualifications

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INSTRUCTOR NAME

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Qualifications

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SQL Exam

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Wireframes for reporting app

Welcome!
This is our ITI app version for instructors and managers

Please enter your name and ID!

Name *

ID *

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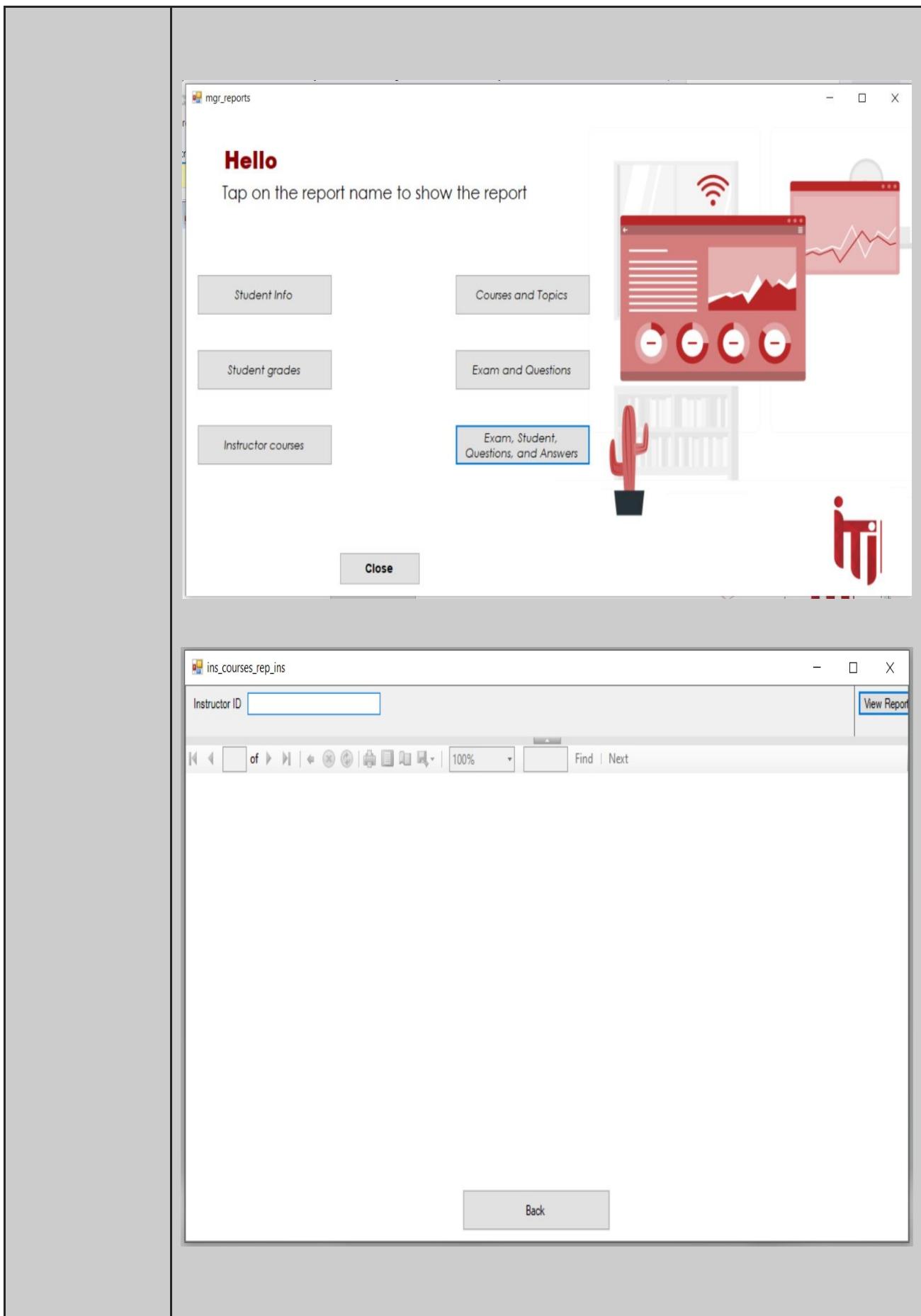
Hello

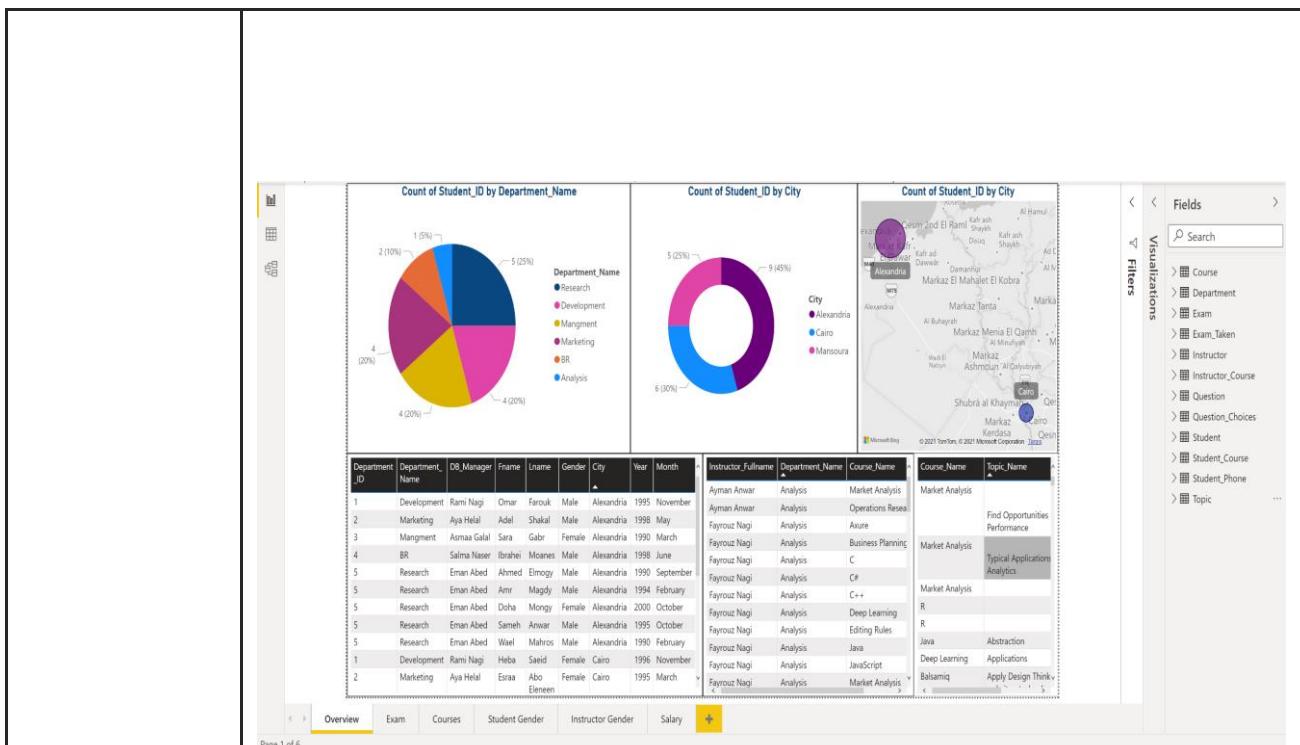
Tap on the report name to show the report

[Instructor courses](#) [Exam and Questions](#)

[Courses and Topics](#) [Exam, Student, Questions, and Answers](#)

[Close](#)





Reports

The report includes a Q&A interface with the following text:

Ask a question about your data
Try one of these to get started

- total result
- show measure
- show students
- number of exams
- top questions by question score

Show all suggestions

Below the interface is a data table:

Exam_ID	Course_Name	Frame	Lname	Question_Formulation	Model_Answer	Student_Answer	Result
1	SQL	Salma	Malh	The keyword LIKE can be used in a WHERE clause to refer to a range of values.	False	False	1
1	SQL	Salma	Malh	A dynamic view is one whose contents materialize when referenced.	True	True	1
1	SQL	Salma	Malh	Each index consumes extra storage space and also requires overhead maintenance time whenever indexed data change value.	True	False	0
1	SQL	Salma	Malh	SQL is a data sublanguage.	True	True	1
1	SQL	Salma	Malh	The ADD command is used to enter one row of data or to add multiple rows as a result of a query.	False	False	1
1	SQL	Salma	Malh	What does this SQL database language design do?	Maintain the data in relational	Maintain the data in relational	1

At the bottom, there is a navigation bar with tabs: Overview, Exam, Courses, Student Gender, Instructor Gender, Salary, and a plus sign.



