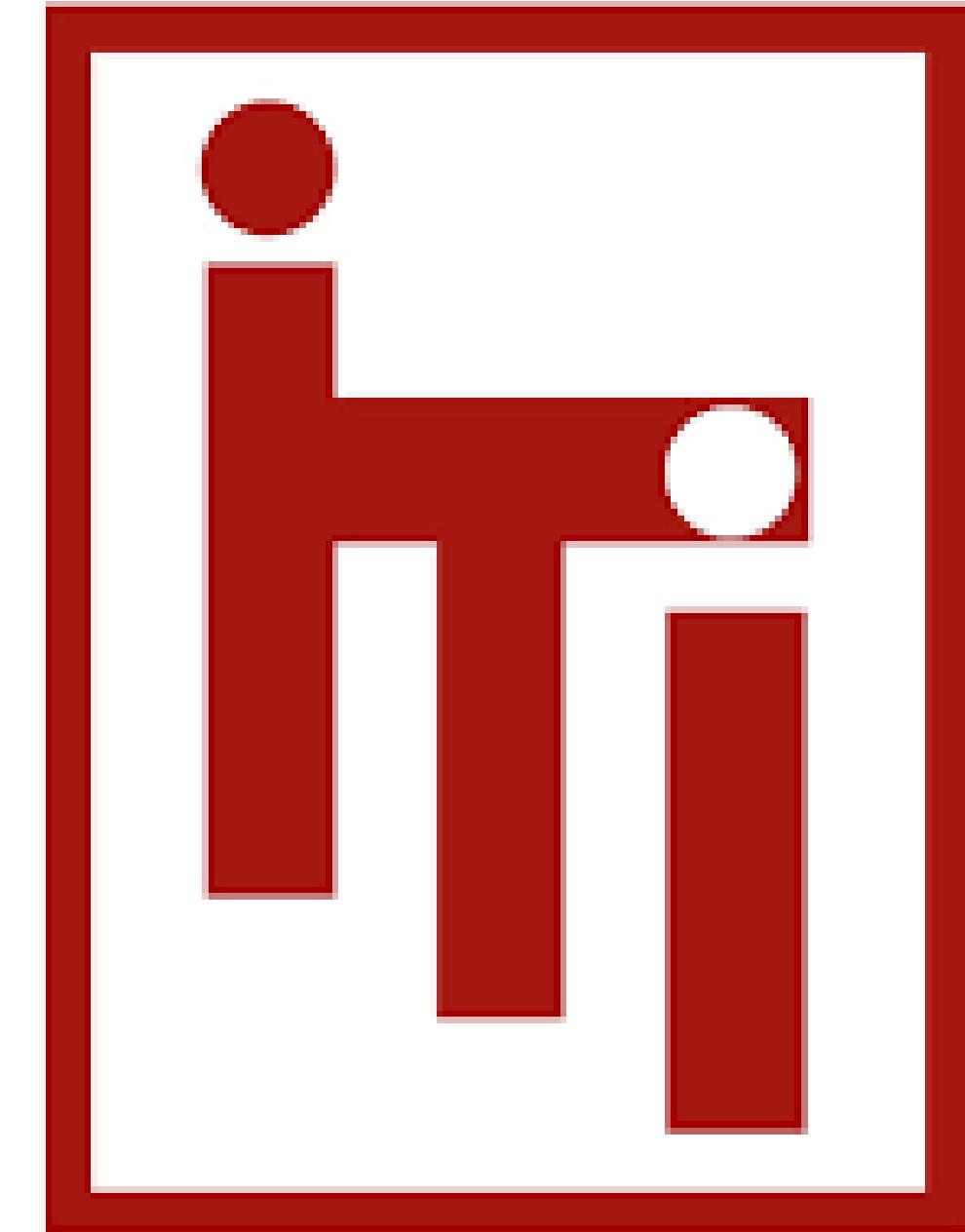


**Information
Technology
Institute**



Examination System



Navigation



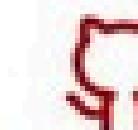
Menna Elzeweidy



in



Mohamed Qadri



in



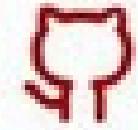
Sara Eldamarany



in



Taher Moaz



in



Doaa Ibrahim



in

Team Members



INTRODUCTION

This project presents an Examination System designed to assist instructors in efficiently creating exams using a dynamic question pool.

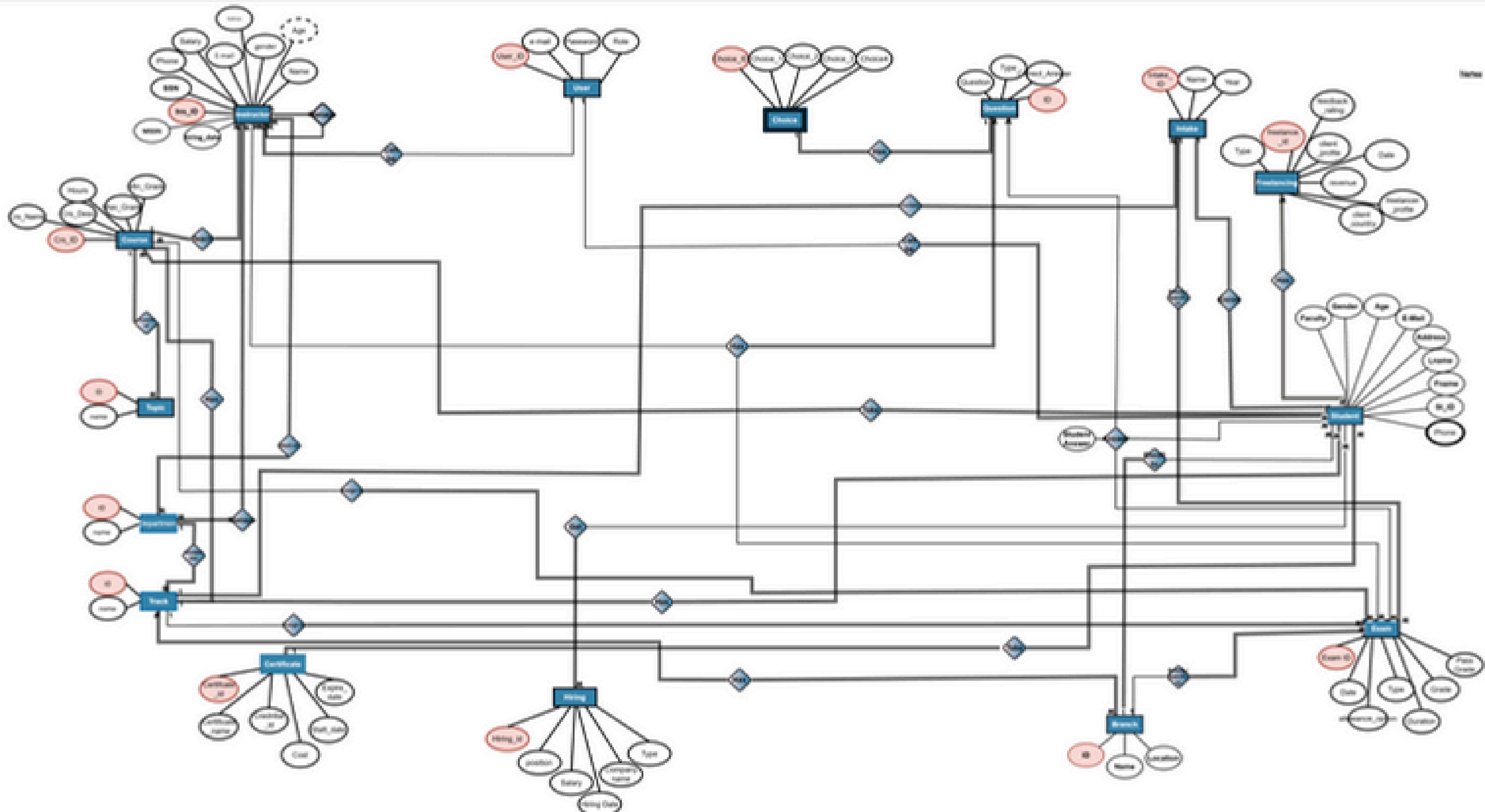
The system allows instructors to:

- Select questions by course, topic and type
- Build exams quickly and consistently
- Save time and reduce manual effort

By streamlining the exam creation process, this system enhances both academic workflow and assessment quality.



Examination System (ERD)



– For a higher-quality view of the diagram, [click here](#).

Examination System Mapping



– For a higher-quality view of the diagram, [click here](#).



Database

Edit View Query Project Tools Window Help



New Query | Execute | Save | Save All | Close | Print | Help | Options |

Final_Project2

Execute | Save | Save All | Close | Print | Help | Options |

Object Explorer

Connect ▾

PC-T1QADRI (SQL Server 16.0.1)

- Databases
 - System Databases
 - Database Snapshots
- 1
- 2
- 3
- Excel
- Examination
- examination system
- Final_Project1
- Final_Project2
 - Database Diagrams
 - dbo.Final_Diagram
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Query Store
 - Service Broker
 - Storage
 - Security
 - Server Objects
 - Replication
 - Always On High Availability
 - Management
 - Integration Services Catalog
 - SQL Server Agent (Agent XP)
 - XEvent Profiler

```
ALTER TABLE [student] ADD FOREIGN KEY ([user_id]) REFERENCES [users] ([userId])
GO

ALTER TABLE [student] ADD FOREIGN KEY ([intake_id]) REFERENCES [Intake] ([intake_id])
GO

ALTER TABLE [student] ADD FOREIGN KEY ([track_id]) REFERENCES [Track] ([track_id])
GO

ALTER TABLE [student] ADD FOREIGN KEY ([certificate_id]) REFERENCES [Certificate] ([certificate_id])
GO

ALTER TABLE [student] ADD FOREIGN KEY ([branch_id]) REFERENCES [Branch] ([branch_id])
GO
---floddf,edf1
ALTER TABLE [Hiring] ADD FOREIGN KEY ([stu_id]) REFERENCES [student] ([stu_id])
GO

ALTER TABLE [Instructor] ADD FOREIGN KEY ([MGR_SSN]) REFERENCES [Instructor] ([ins_id])
GO

ALTER TABLE [Instructor] ADD FOREIGN KEY ([user_id]) REFERENCES [users] ([userId])
GO

ALTER TABLE [Ins_Dep] ADD FOREIGN KEY ([ins_id]) REFERENCES [Instructor] ([ins_id])
GO

ALTER TABLE [Ins_Dep] ADD FOREIGN KEY ([Dept_id]) REFERENCES [Department] ([Dept_id])
GO

ALTER TABLE [Instructor_Phone] ADD FOREIGN KEY ([instructor_id]) REFERENCES [Instructor] ([ins_id])
GO
```

80%

Connected (1/1)

PC-T1QADRI (16.0 RTM) PC-T1\El-Wattaneya (73) Final_Project2 00:00:00 0 rows

Ready

Ln 15

Col 26

Ch 26

INS

Type here to search



16°C 10:16 AM



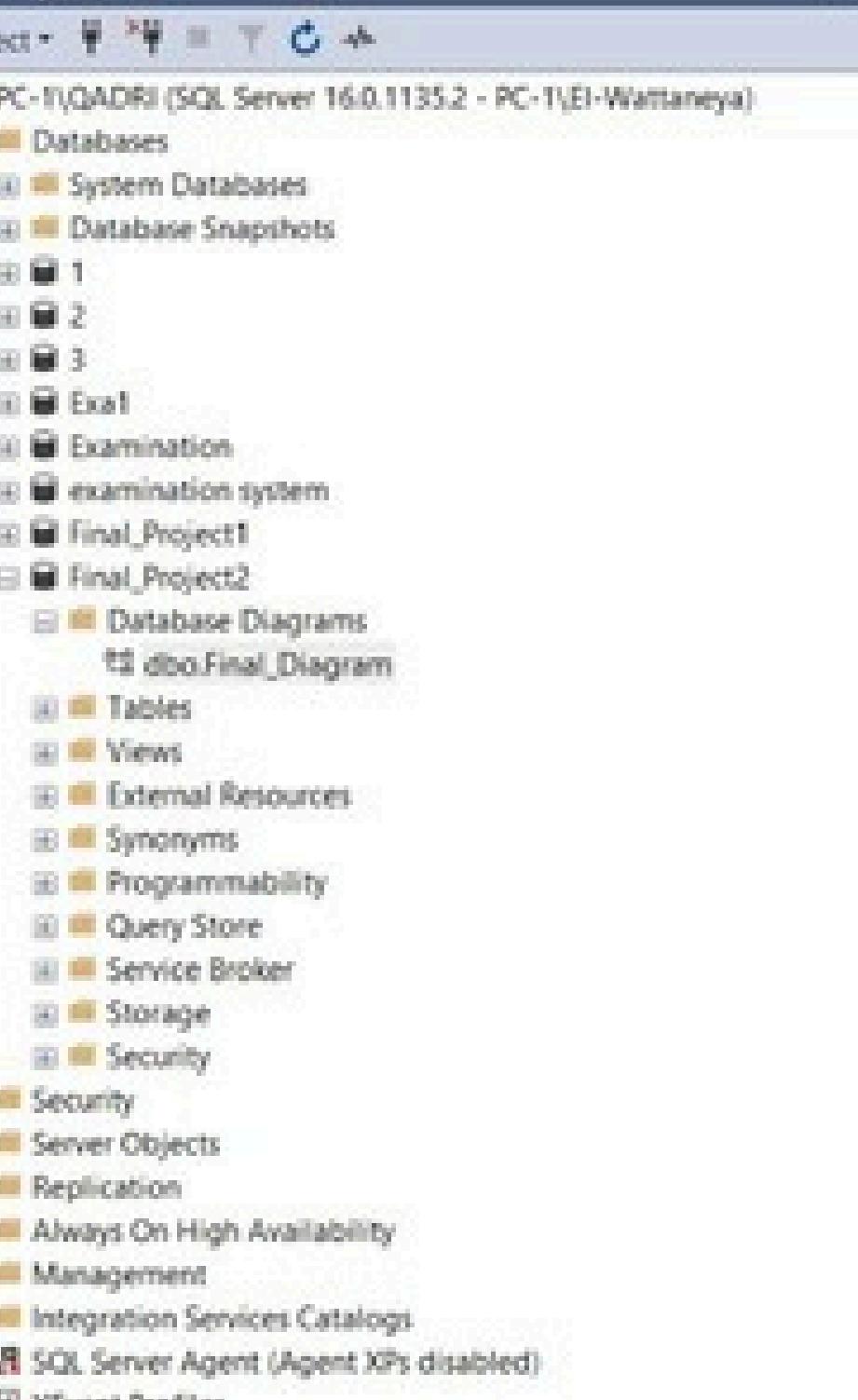
342 AM

3/25/2025

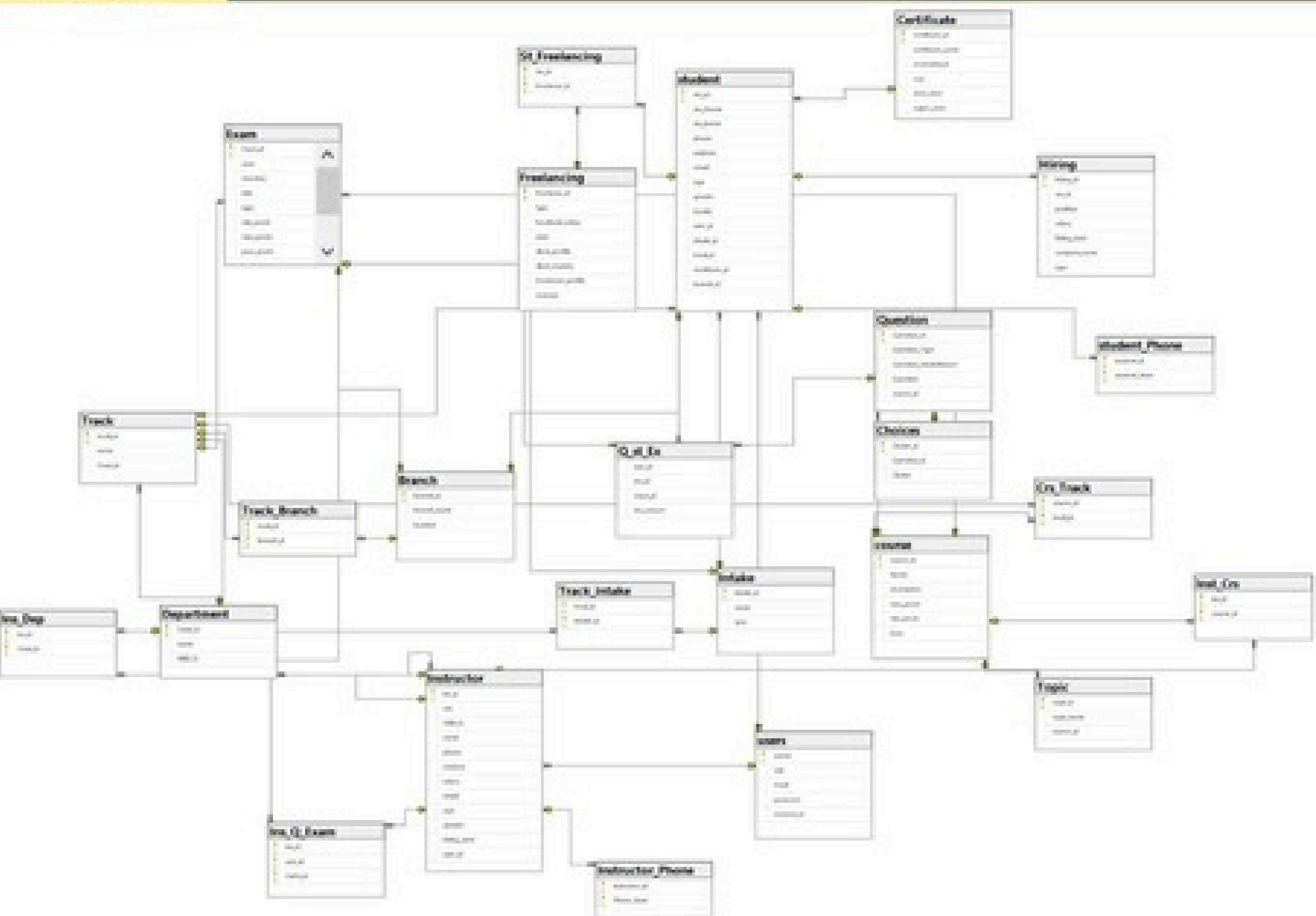
Edit View Project Table Designer Tools Window Help



Explorer



PC-1\QADRI\Final_P_12 - Final_Diagram*

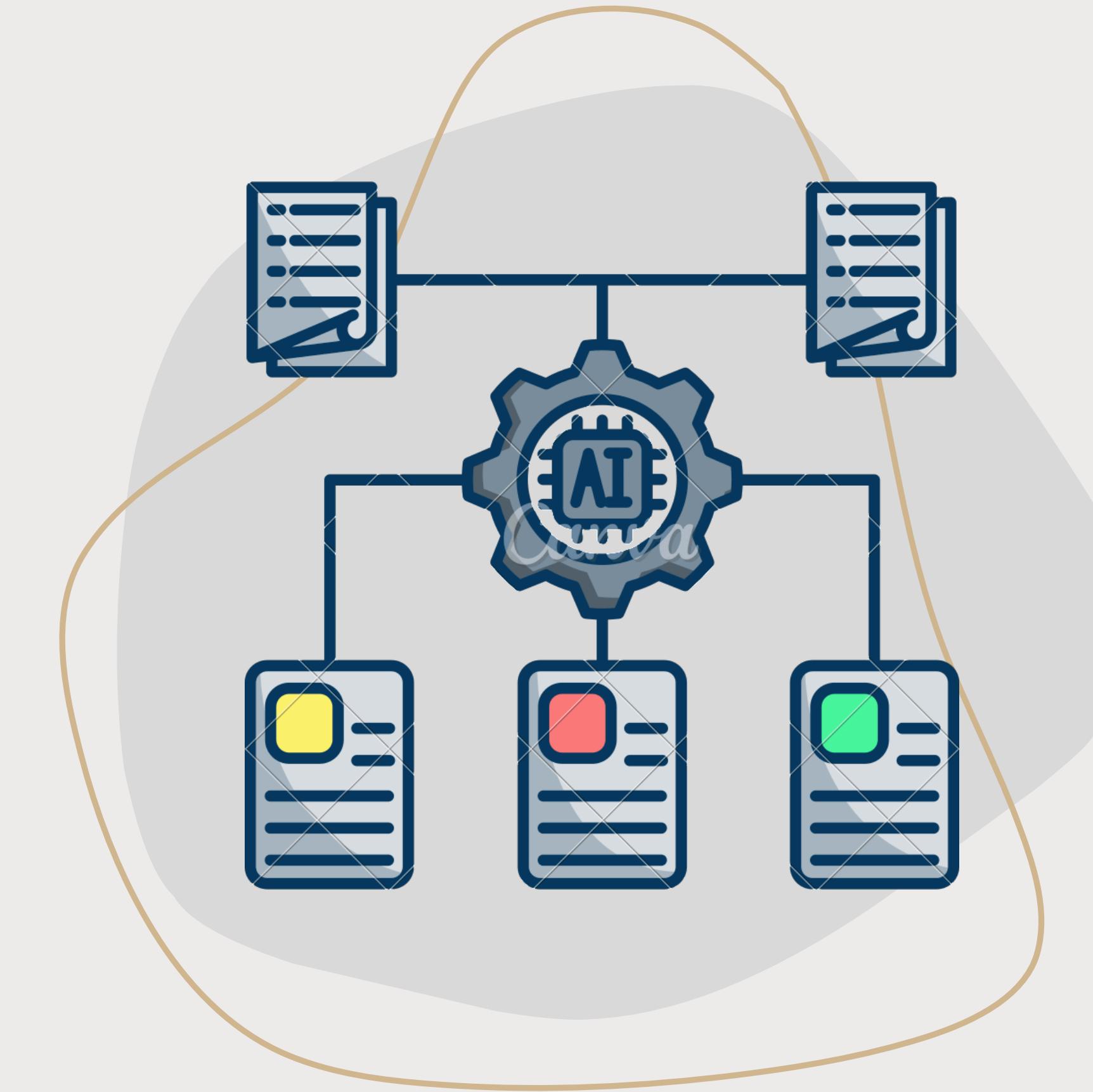


DATA GENERATION

Generate data using AI tools
and Python then insert relational
data into csv files.

Tools Used:

- Mockaroo
- Python
- Excel

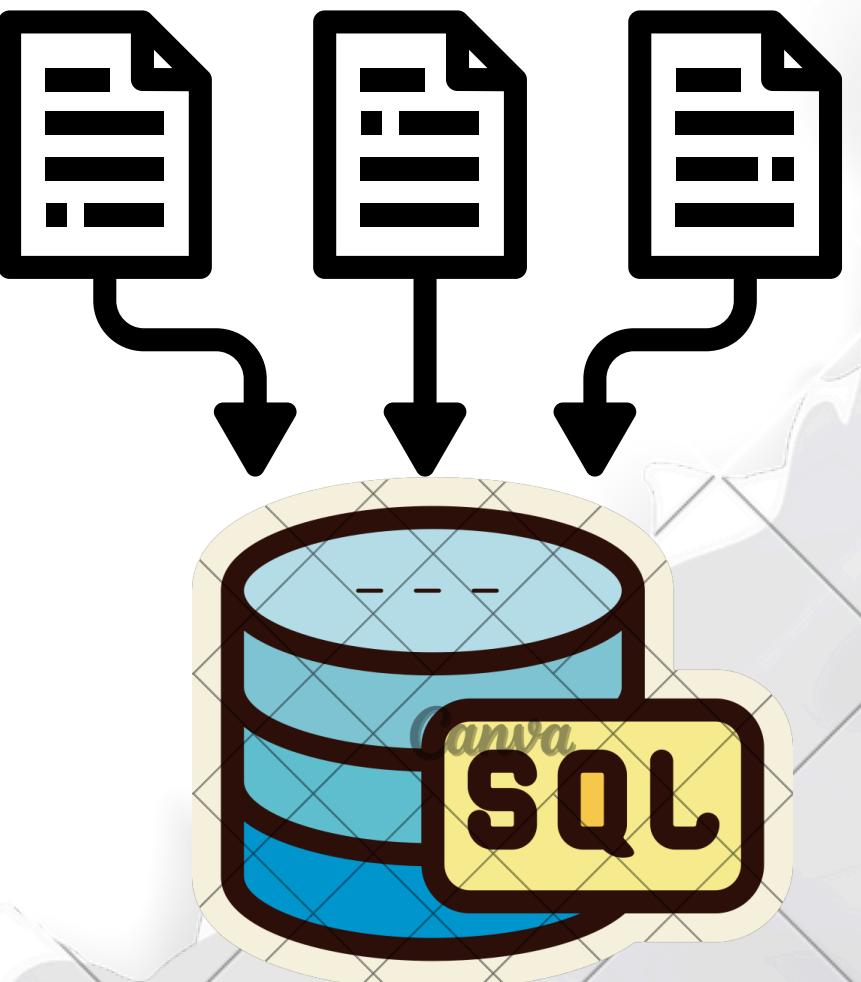


DATA INSERTION

There are multiple methods that are used to import data from CSV-generated files into a Microsoft SQL Server database.

Used techniques:

- INSERT INTO Statements (Manual Insertion)
- Bulk Insert
- SQL Server Import and Export Wizard

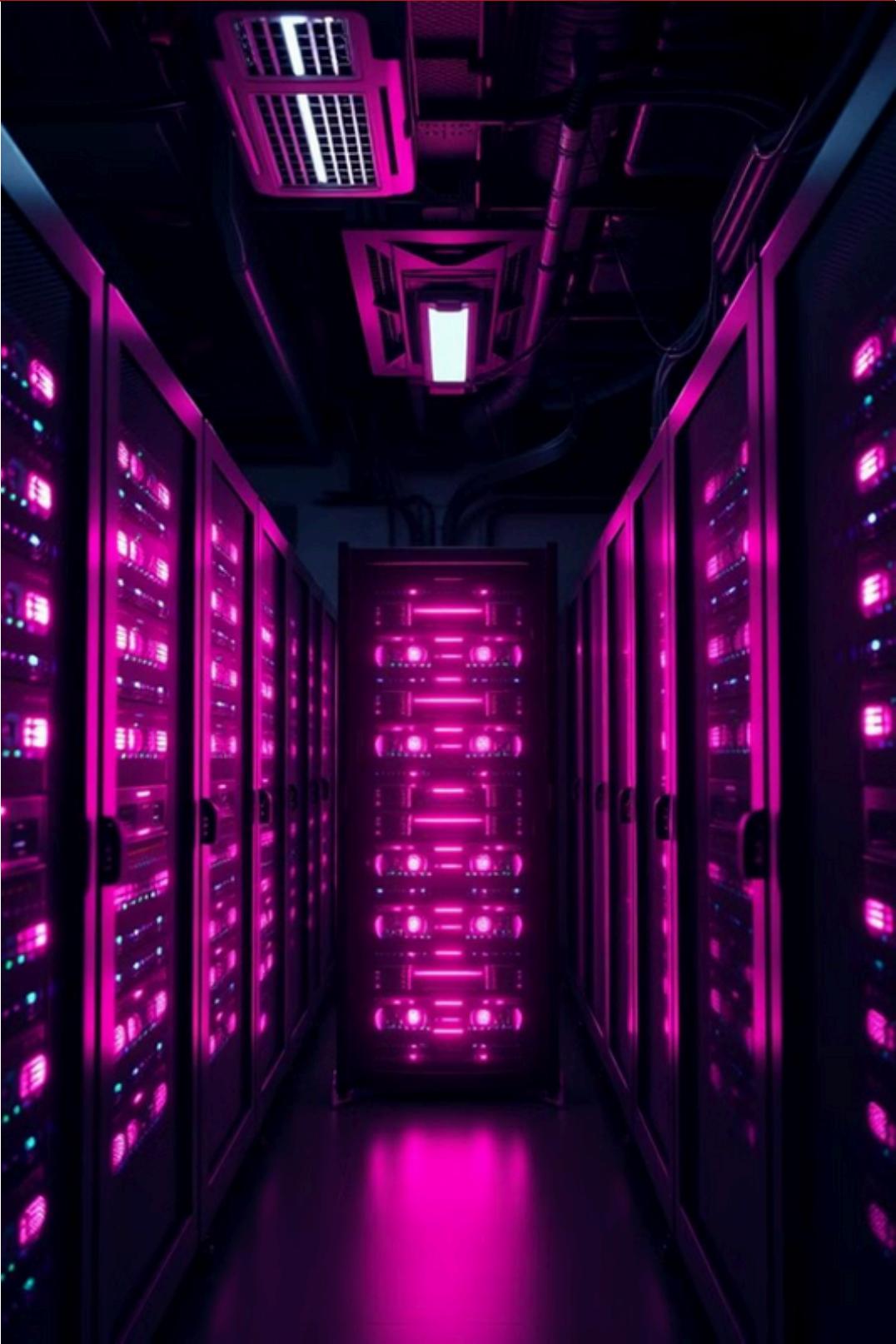


AUTOMATING CRUD OPERATIONS WITH STORED PROCEDURES

Our database automation initiative streamlines CRUD operations for 25 tables.

We aim to reduce development time and improve data consistency.

Automated procedures reduce query execution time.



STORED PROCEDURES

Key Stored Procedure



Exam Generation



Exam Answers



Exam Correction



dit View Query Project Tools Window Help

New Query Execute

Final_Project2

Proc1sql - PC-T1\Q1\El-Wattaneya (70) Schema.sql - PC-T1\El-Wattaneya (73) PC-T1QADRI.Final_P_02 - Final_Diagram

```
CREATE PROCEDURE GetStudentByDepartment
@Dept_ID INT
AS
SELECT c.*
FROM student c
JOIN track t ON c.track_id = t.track_id
WHERE t.dept_id = @Dept_ID
```

GO

```
-- Report 1: Get any details from course with student
SELECT s.course_id AS Name , s.Name , st.student_id , j.track_id , t.track_id
FROM track t ON t.track_id = s.track_id
JOIN student st ON st.student_id = s.id
JOIN course s ON s.id = st.course_id
GROUP BY s.Name
```

-- Report 2: Courses taught by instructor and student count
ALTER PROCEDURE GetInstructorCourses
@Dept_ID INT
AS
SELECT c.Name AS Course_Name , COUNT(s.student_id) AS Student_Count
FROM track t
JOIN course c ON c.course_id = t.course_id
LEFT JOIN student s ON s.track_id IN (SELECT track_id FROM track WHERE course_id = c.course_id)
GROUP BY c.Name

GO

```
-- Report 3: Topics of a given course
ALTER PROCEDURE GetCourseTopics
@course_id INT
AS
SELECT topic_name FROM topics WHERE course_id = @course_id
```

GO

```
-- Report 4: Questions and choices of an exam
ALTER PROCEDURE GetExamQuestions
@Exam_ID INT
AS
SELECT Question_ID , Question_Text , Description , Choice_ID , Choice_Text
FROM questions
WITH (NOLOCK)
ORDER BY Question_ID
```

```
FOR Question q
SELECT Exam_Q.Exam_ID , q.Question_ID , Exam.exam_id
LEFT JOIN Exam_Exam e ON q.Question_ID = e.Question_ID
LEFT JOIN Exam_Exam ee ON Exam_Exam.Exam_ID = Exam_Exam.Exam_ID
WHERE Exam_Exam.Exam_ID = Exam.Exam_ID
```

```
SELECT
    q.Question_ID ,
    q.Question_Text ,
    MAX(CASE WHEN e.Choice_ID = 1 THEN 1 ELSE 0 END) AS Choice1 ,
    MAX(CASE WHEN e.Choice_ID = 2 THEN 1 ELSE 0 END) AS Choice2 ,
    MAX(CASE WHEN e.Choice_ID = 3 THEN 1 ELSE 0 END) AS Choice3 ,
    MAX(CASE WHEN e.Choice_ID = 4 THEN 1 ELSE 0 END) AS Choice4
```

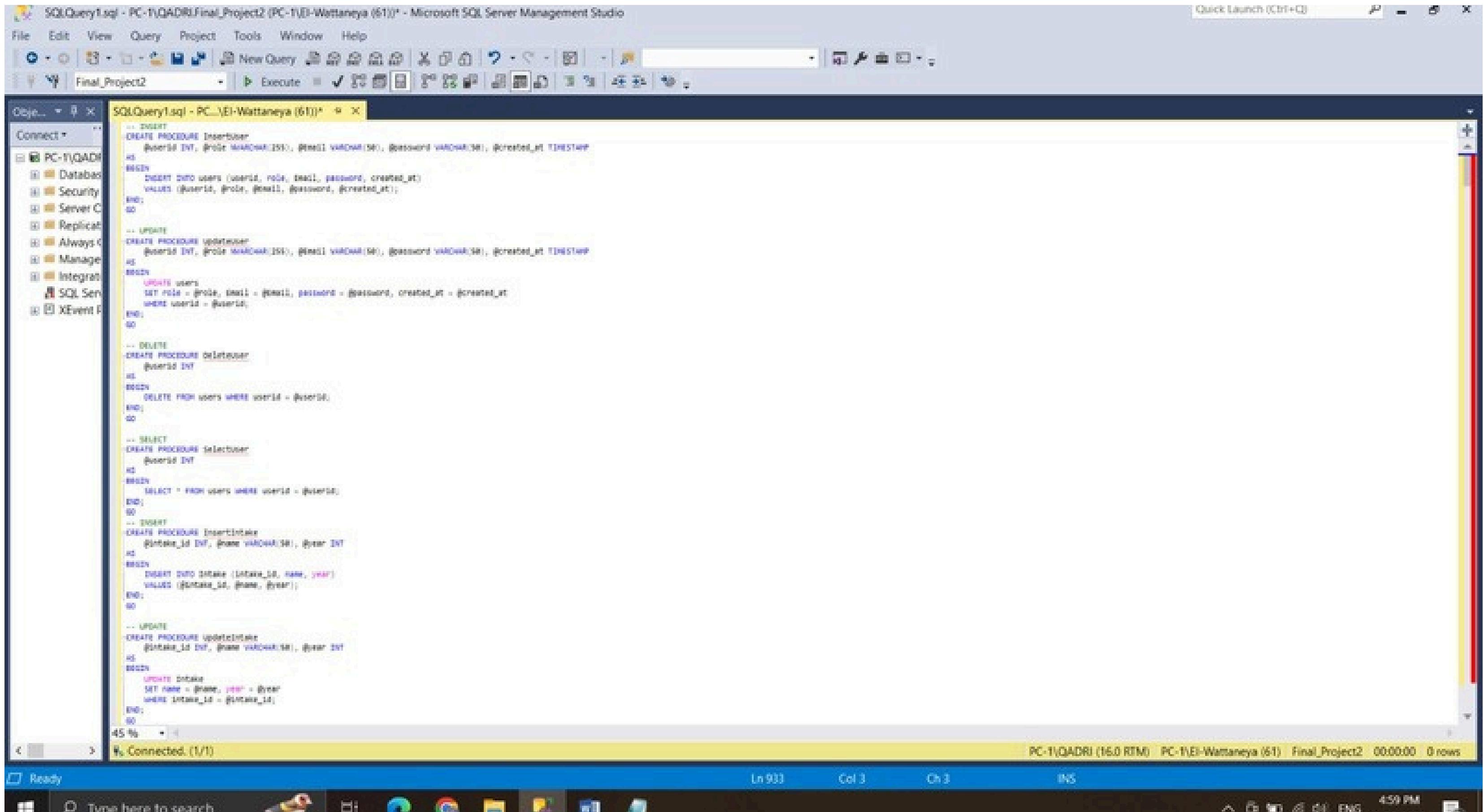
```
FOR Question q
SELECT Exam_Q.Exam_ID , q.Question_ID , Exam.exam_id
LEFT JOIN Exam_Exam e ON q.Question_ID = e.Question_ID
LEFT JOIN Exam_Exam ee ON Exam_Exam.Exam_ID = Exam_Exam.Exam_ID
WHERE Exam_Exam.Exam_ID = Exam.Exam_ID
```

37 %

Connected. (1/1)

PC-T1QADRI (16.0 RTM) PC-T1\El-Wattaneya (70) Final_Project2 00:00:00 0 rows

Sara Eldamarany



File Edit View Query Project Tools Window Help

New Query Execute ✓

Final_Project2

SQLQuery1.sql - PC-1\El-Wattaneya (32) Proc1.sql - PC-1\El-Wattaneya (70) Schema.sql - PC-1\El-Wattaneya (73) PC-1\QADRI\Final_P.t2 - Final_Diagram

```
alter PROCEDURE GetStudentExamScore
    @StudentID INT,
    @ExamID INT
AS
BEGIN
    SET NOCOUNT ON;
    SELECT
        qse.stu_id,
        qse.Exam_ID,
        SUM(CASE
            WHEN qse.Stu_Answer = q.Question_ModelAnswer THEN 1 -- Counting correct answers
            ELSE 0
        END) AS FinalDegree
    FROM
        Q_St_Ex qse JOIN question q ON qse.que_Id = q.Question_ID
    WHERE
        qse.stu_id = @StudentID AND qse.Exam_ID = @ExamID -- Filtering by StudentID and ExamID
    GROUP BY
        qse.stu_id, qse.Exam_ID;
END;
exec GetStudentExamScore 368 , 1
GO
Alter PROCEDURE GetExamAnswer
    @StudentID INT,
    @ExamID INT
AS
BEGIN
    SET NOCOUNT ON;
    DECLARE @T VARCHAR(50) = "Correct Answer";
    DECLARE @F VARCHAR(50) = "Wrong Answer";

    SELECT
        qse.stu_id,
        qse.stu_answer,
        qse.Exam_ID,
        CASE
            WHEN qse.Stu_Answer = q.Question_ModelAnswer THEN @T
            ELSE @F
        END AS Answer_Status
    FROM Q_St_Ex qse JOIN question q ON qse.que_Id = q.Question_ID
    WHERE
        qse.stu_id = @StudentID AND qse.Exam_ID = @ExamID;
END;
GO
```

60 %

% Connected. (1/1)

PC-1\QADRI (16.0 RTM) PC-1\El-Wattaneya (32) Final_Project2 00:00:00 0 rows

Ready

Type here to search



Edit View Query Project Tools Window Help



Final_Project2



Execute



```
SQLQuery1.sql - PC-1\E-Wattaneya (52)* | Proc1.sql - PC-1\QADRI\E-Wattaneya (70)* | Schema.sql - PC-1\QADRI\E-Wattaneya (73) | PC-1\QADRI\Final_P_02 - Final_Diagram*
```

```
ALTER PROCEDURE Exam_Generation
    @Exam_Title VARCHAR(50),
    @Exam_Duration INT,
    @Exam_Date DATE,
    -- @Questions_Nums INT,
    @Exam_Grade INT,
    @Course_ID INT,
    @Track_ID INT,
    @Branch_ID INT,
    @Exam_ID INT
AS
BEGIN
    INSERT INTO Exam (Date, Duration, Title, Max_Grade, Course_ID, Track_ID, Branch_ID, Exam_ID)
    VALUES (@Exam_Date, @Exam_Duration, @Exam_Title, @Exam_Grade, @Course_ID, @Track_ID, @Branch_ID, @Exam_ID)
END
GO
--select * from Exam
ALTER PROCEDURE GETQuestion
    @Exam_ID INT ,
    @Ins_ID INT
AS
BEGIN
    Insert into Ins_Q_Exam (Ins_ID , que_id , Exam_ID) select top 10 @Ins_ID , q.Question_ID , @Exam_ID from Question q
    order by NEWID()
END
GO
exec GETQuestion 69 , 1
select * from Ins_Q_Exam where Exam_ID = 69

-- exec GETQuestion 69 , 1

EXEC Exam_Generation
    @Exam_Title = 'SQL Basics Exam',
    @Exam_Duration = 60,
    @Exam_Date = '2024-01-01',
    @Exam_Grade = 100,
    @Course_ID = 1,
    @Track_ID = 2,
    @Branch_ID = 3,
    @Exam_ID = 69; -- @Ins_ID = 1, @que_id = 1, @Exam_ID = 69
```

60%



% Connected: (1/1)

PC-1\QADRI (16.0 RTM) PC-1\E-Wattaneya (52) Final_Project2 000000

SSRS



Microsoft®
SQL Server®
Reporting Services

SSRS:REPORT 1

<Select a Value>

<Select a Value>

Software Development & Programming

Artificial Intelligence & Data Science

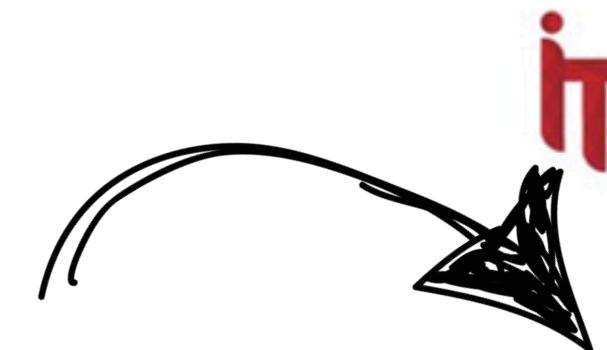
Cybersecurity & Networks

Multimedia & Graphic Design

Embedded Systems & IoT

Business & IT Management

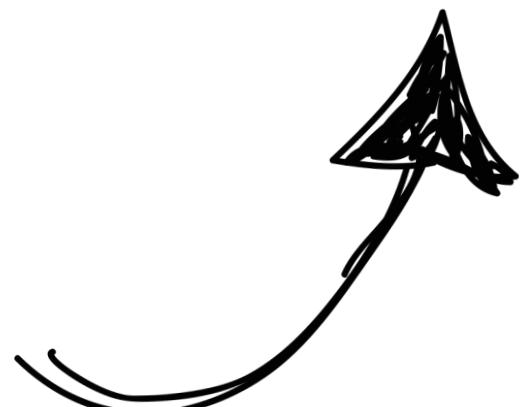
QA Engineering & Validation



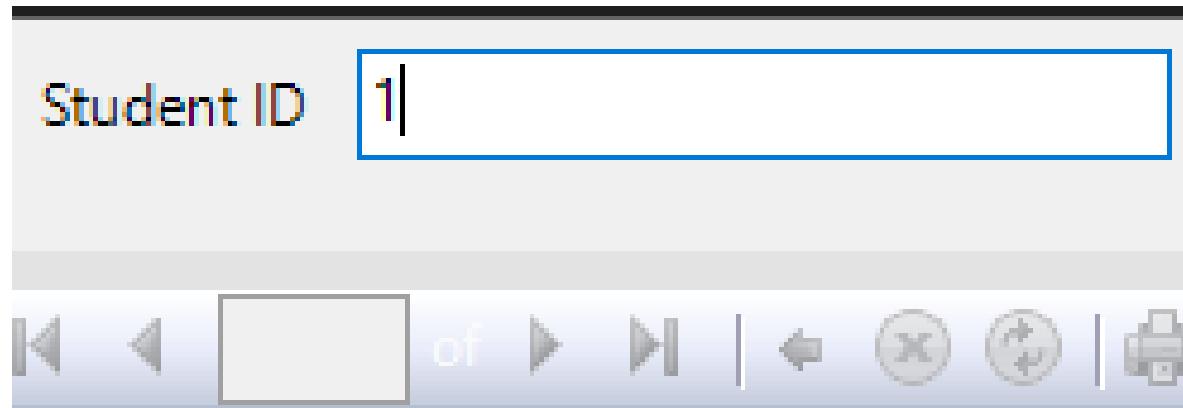
Students Information

Student id	Full name	Phone	Age	Gender	Branch	Certificate	Intake
392	Army Jakubovicz	433 368 3657	29	Male	Mansoura	Certified Ethical Hacker (CEH)	Intake 32
393	Rosette Caldecutt	289 548 1985	26	Female	Mansoura	AWS Certified Data Analytics	Intake 33
394	Ainslie Gerge	898 467 5171	23	Female	Mansoura	Microsoft Power BI Data Analyst	Intake 34
395	Lonny Gemson	668 736 0733	26	Male	Mansoura	Google Associate Cloud Engineer	Intake 35
396	Yasmin O.Corren	193 804 1163	23	Female	Mansoura	Scrum Master Certified (SMC)	Intake 36
397	Terry Drust	582 172 3895	24	Male	Mansoura	Certified Information Systems Security Professional (CISSP)	Intake 37
398	Tersina Linfitt	321 513 1362	25	Female	Mansoura	AWS Certified DevOps Engineer	Intake 38
399	Lorianna Zapata	660 446 8607	27	Female	Mansoura	Certified Kubernetes Administrator (CKA)	Intake 39
400	Aidan Mounsey	747 562 7891	22	Female	Mansoura	Data Science with Python	Intake 40
401	Robin Novik	443 794 1290	26	Male	Mansoura	Microsoft Certified: Azure Fundamentals	Intake 41
402	Peyter Luck	951 806 8682	27	Male	Mansoura	AWS Certified Solutions Architect	Intake 42
403	Vail Lanaway	739 839 1211	23	Male	Mansoura	Microsoft Certified: Azure Fundamentals	Intake 43
736	Trisha Willers	886 994 1356	28	Female	Aswan	Scrum Master Certified (SMC)	Intake 16

Student Information



SSRS:REPORT 2



Student ID

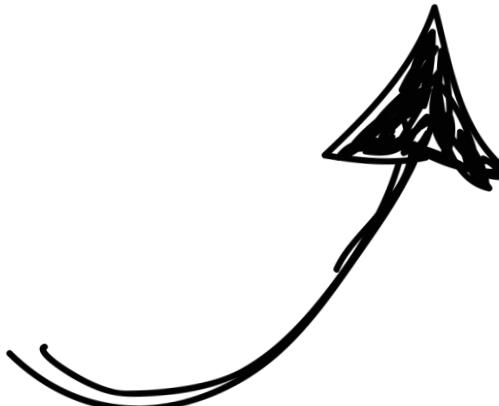
of | |



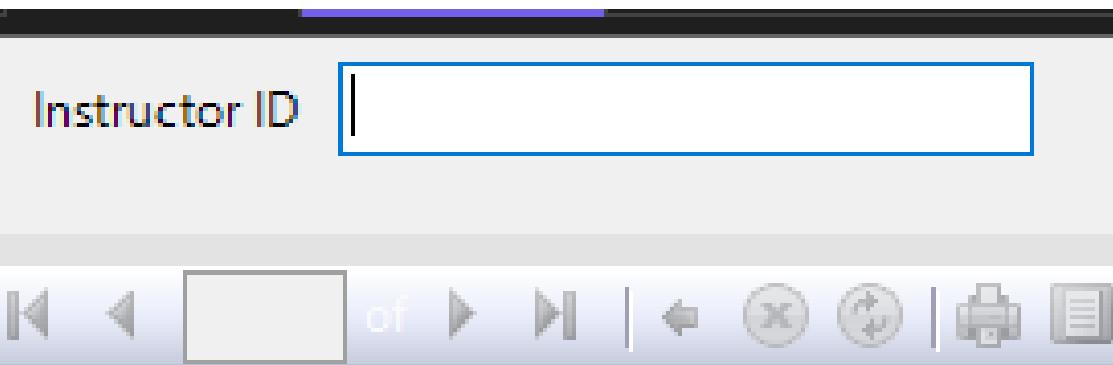
Student Grade

Course name	Grade Percentage
Cyber Security	50%
OS	100%
Cloud Deployment with Azure	66%
GraphQL & REST API Integration	100%
Presentation Skills	58%
3D Motion Design	100%

Student
Grade



SSRS:REPORT 3



Instructor ID

Navigation buttons: Back, Forward, Home, Print, etc.

Instructor
Course



Instructor

Instrucor Stirling

Department Software Development & Programming

Course Name	Number of Students
Presentation Skills	750



SSRS:REPORT 4

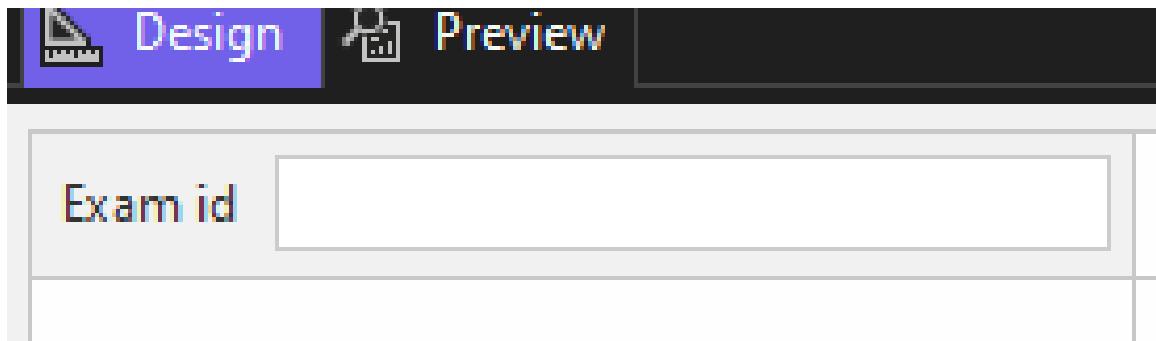


A screenshot of the Microsoft SQL Server Reporting Services (SSRS) report configuration interface. It shows a parameter named "Course id" with a data type of "Int". Below the parameter, there is a toolbar with various icons for report navigation and management. A large black arrow points from the "Course Topics" section on the right towards this parameter field.

Course Topics

Course Topics	
Course	Java
Topic	
Principles: Encapsulation, Inheritance, Polymorphism, Abstraction	
Classes & Objects	
Constructors & Destructors	
Interfaces & Abstract Classes	
Static & Dynamic Binding	
Design Patterns (Singleton, Factory, etc.)	
Exception Handling	
File Handling	
Object-Oriented Analysis & Design (OOAD)	
Unit Testing in OOP	

SSRS:REPORT 5



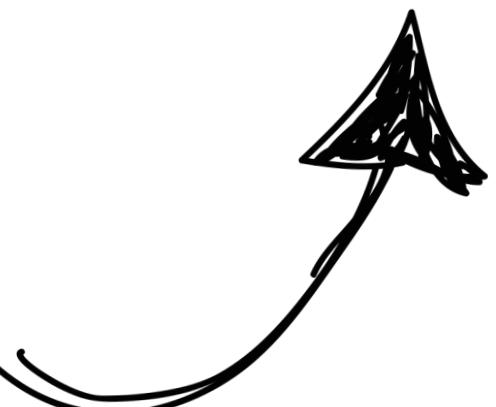
1. What is OLAP used for in BI?

- A. Data entry
- B. Online analysis of multidimensional data
- C. Predictive analysis
- D. Real-time data processing

2. In the context of BI, what is a "data mart"?

- A. A small data warehouse used for specific business functions
- B. A data model
- C. A data cleaning technique
- D. A data integration tool

Exam Questions



SSRS:REPORT 6



A screenshot of the Microsoft SQL Server Reporting Services (SSRS) Design View. It shows two input fields: 'Student ID' and 'Exam ID'. Below these fields is a toolbar with various icons for navigating and previewing the report. A large black arrow points from the left side of the slide towards this screenshot.

Student answer

No	Question	Student answer	Answer Status
1	What is OLAP used for in BI?	Online analysis of multidimensional data	Correct Answer
2	In the context of BI, what is a "data mart"?	A small data warehouse used for specific business functions	Correct Answer
3	Garbage Collection is manual process.	FALSE	Correct Answer
4	There is an equivalent join expression that can be substituted for all subquery expressions.	TRUE	Correct Answer
5	SELECT DISTINCT is used if a user wishes to see duplicate columns in a query.	FALSE	Correct Answer
6	The semicolon terminates a SQL statement (and executes it).	TRUE	Correct Answer
7	Operating systems are a widely recognized example of system software.	TRUE	Correct Answer
8	Every Server control of ASP.NET must have an id?	TRUE	Correct Answer
9	A software engineer designs the user interface by applying an iterative process that draws on predefined design principles.	TRUE	Correct Answer
10	A white box test scales up well at different granularity levels of testing.	FALSE	Wrong Answer

Student
Exam
Answer

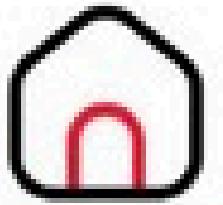
POWER BI

Visualization





Navigation



Filters



Governorate

All

faculty

All

gender

All

age

All



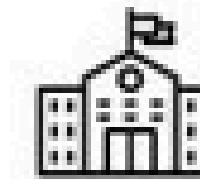
Number Of Students

1000



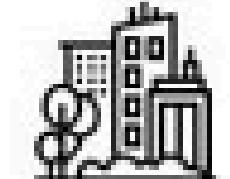
Number Of Faculties

80



Number Of Cities

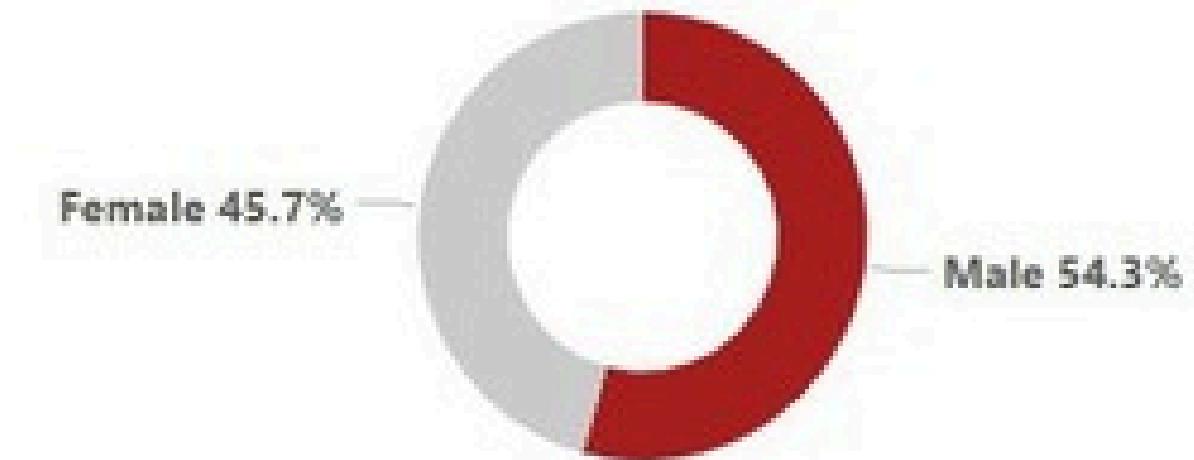
19



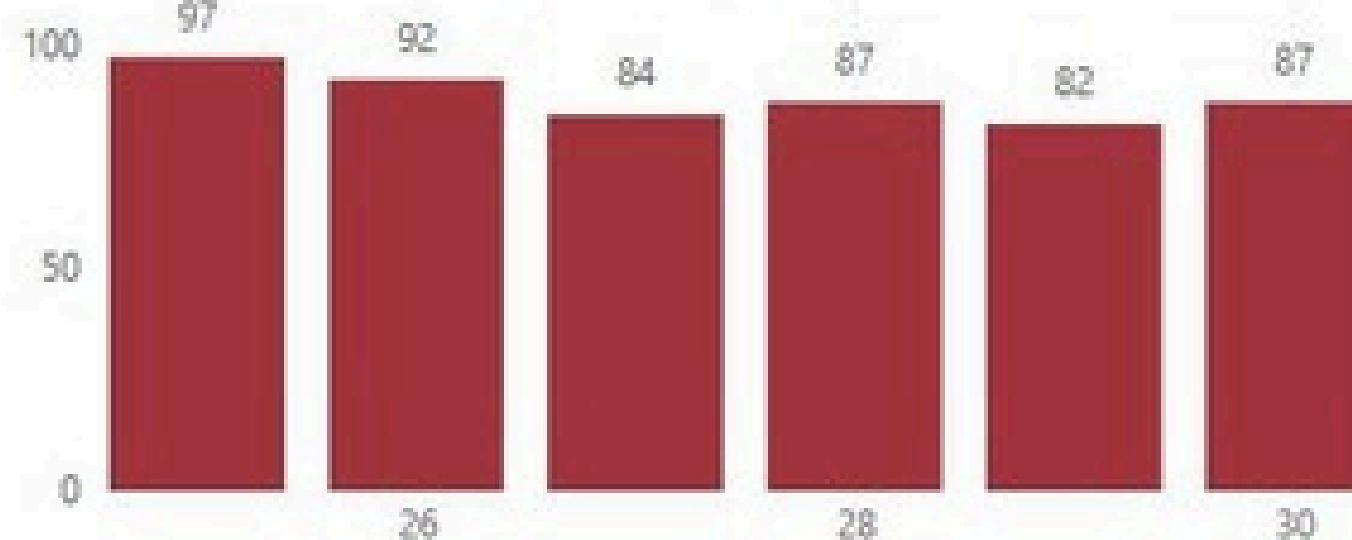
Major 5 Colleges Supplying Students



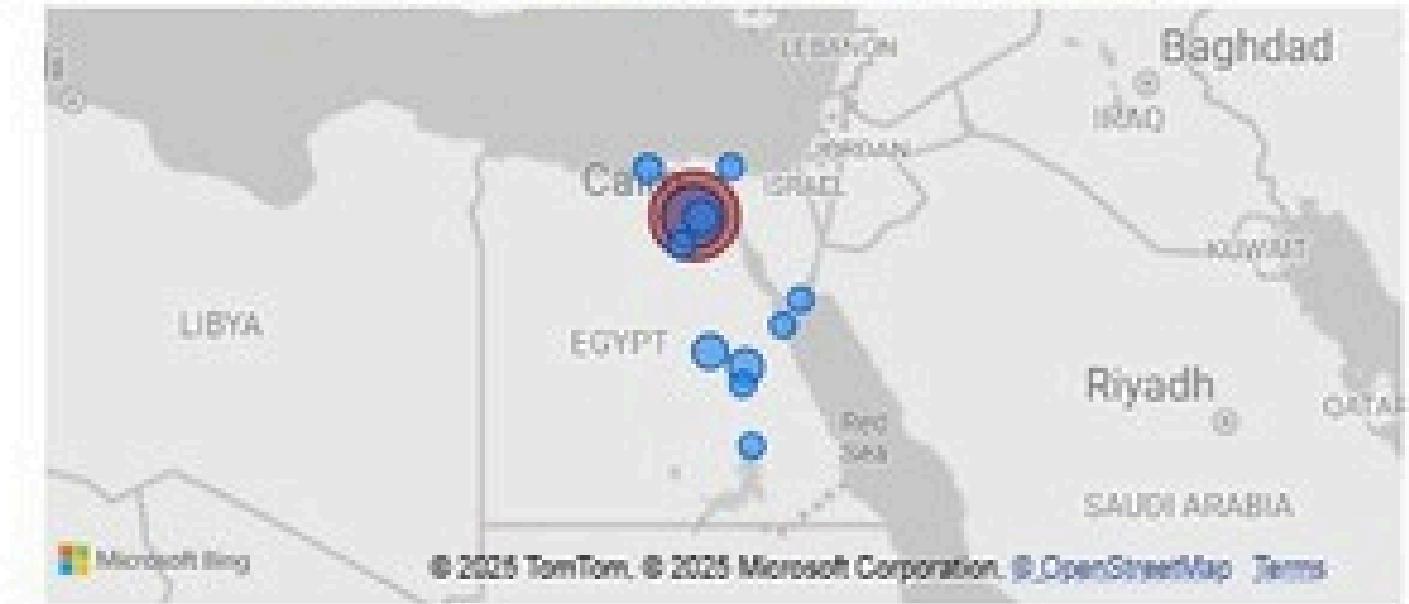
Gender Distribution of Students



Top 6 Age Groups of Students



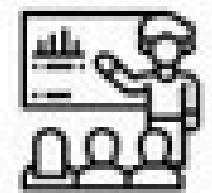
Student Distribution Across Governorates





Number Of Instructors

200



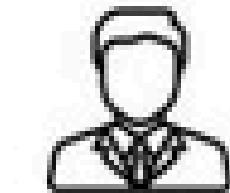
Average Instructor Age

39.56



Number Of Managers

8



Navigation



Filters

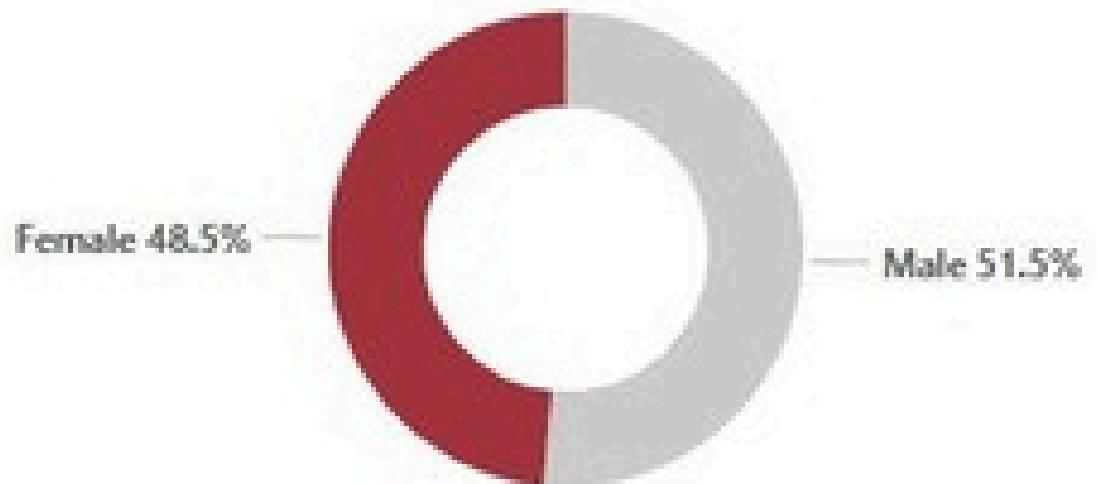
hiring_date

1/4/2010

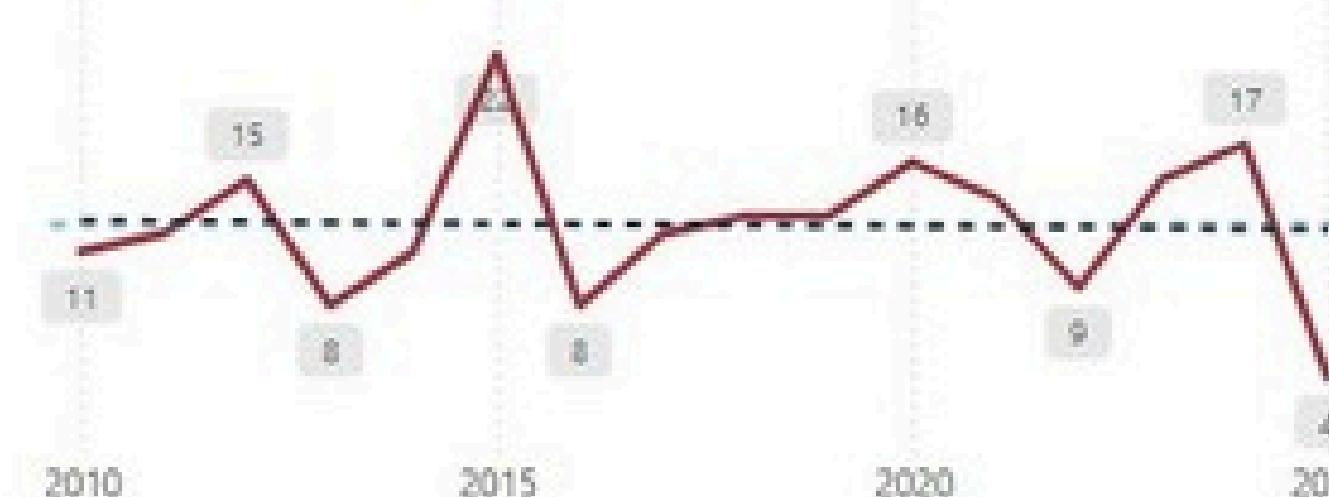
2/21/2025



Instructor By Gender



Number Of Instructors Over Years

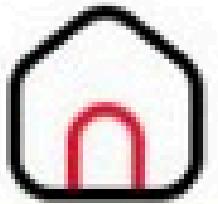


Instructor By City

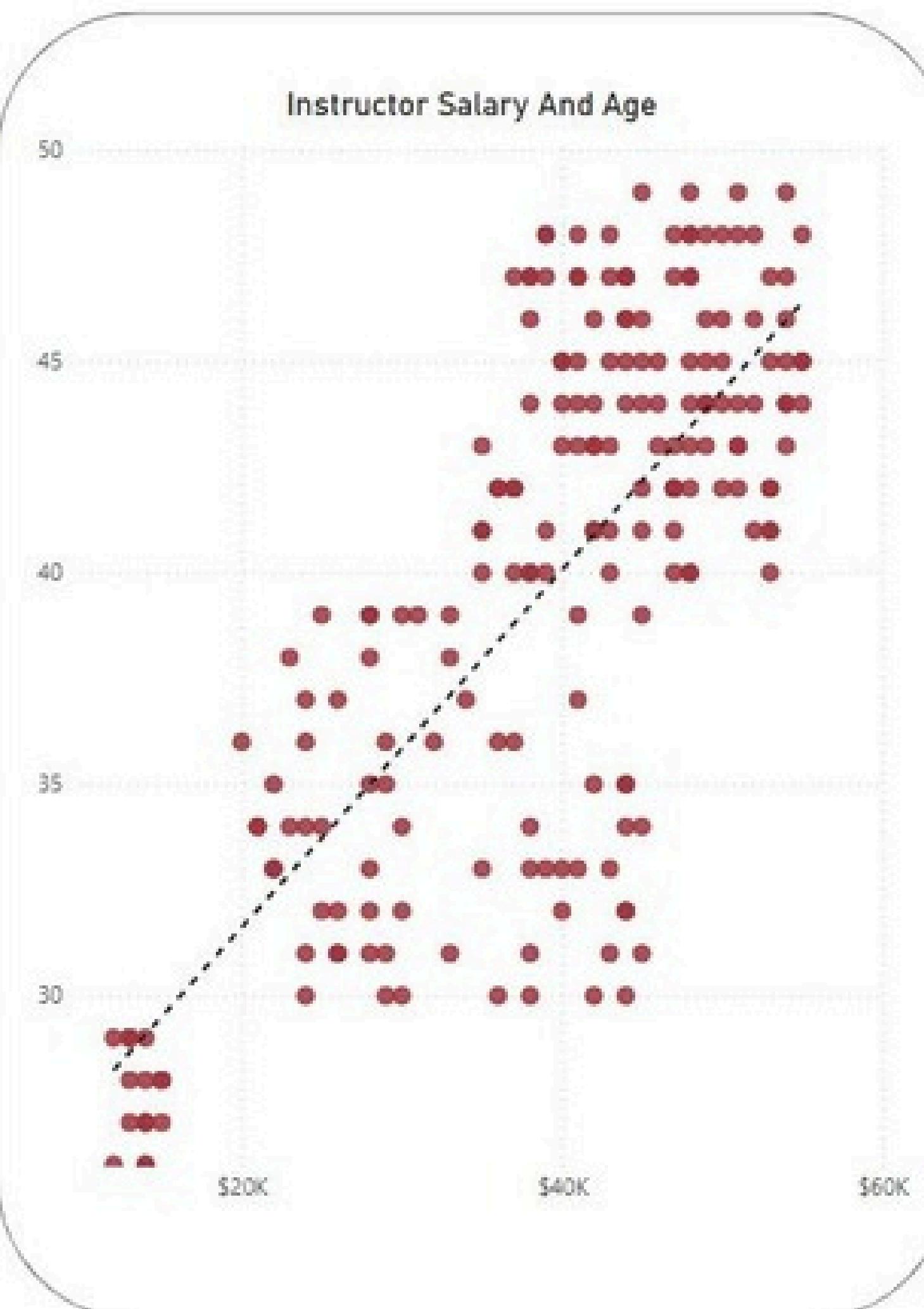




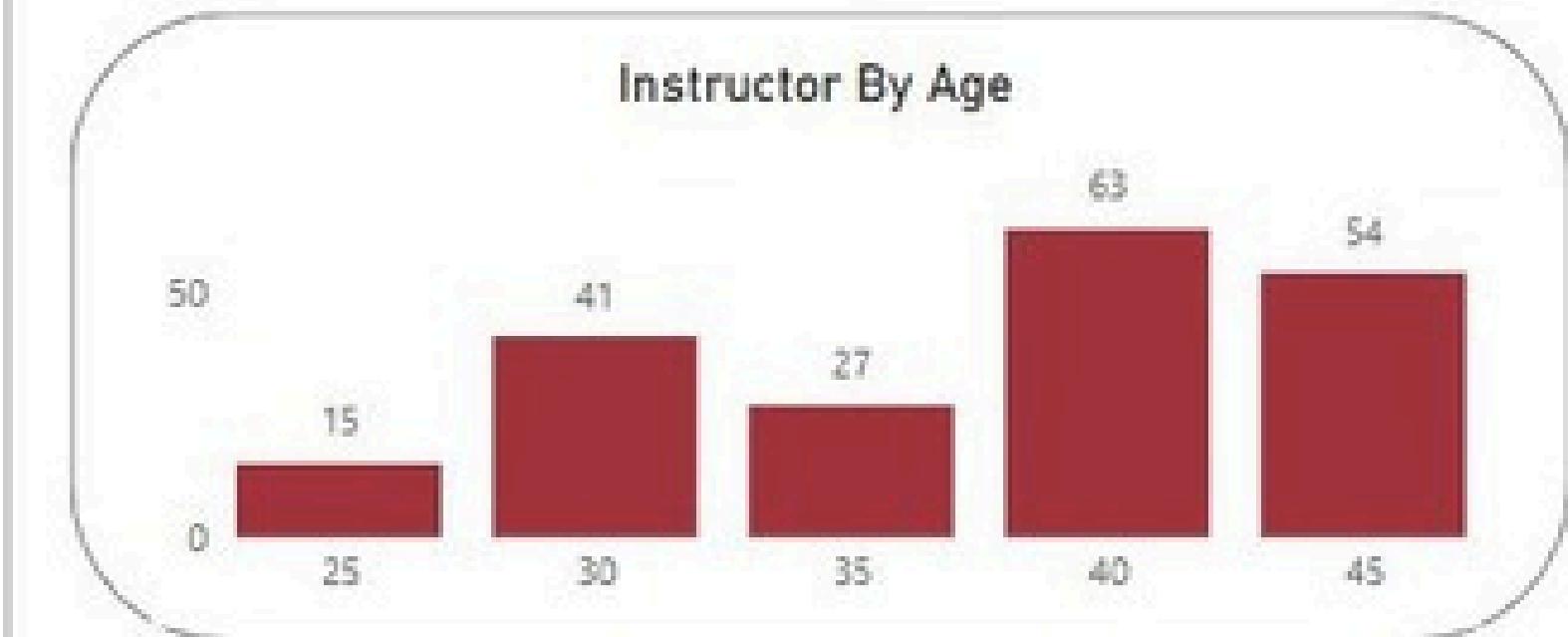
Navigation



Filters



correlation for age and salary





Average Minimum Grade

56.25

Average Maximum Grade

94.55

Average Course Duration

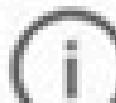
16



Navigation



Filters



Course ID	Exam Type	Exam Duration
33	Practical Coding Tasks	3
49	Practical CV Creation	3
10	Practical Design Tasks	3
36	Practical Tasks	3
37	Python Coding Tasks	3
54	Python ML Libraries	3
39	Sound Editing	3
4	SQL Queries	3
9	System Configuration Tasks	2
41	Visualization Tasks	3

Course ID	Track Name
47	Animation for Games & Apps
49	Animation for Games & Apps
50	Animation for Games & Apps
51	Animation for Games & Apps
52	Animation for Games & Apps
12	Business Intelligence & Data Engineering
37	Business Intelligence & Data Engineering
38	Business Intelligence & Data Engineering



Navigation



Filters



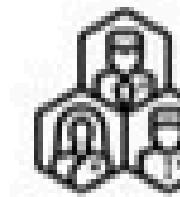
Department ▼

All ▼



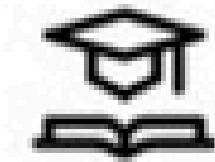
Number Of Departments

7

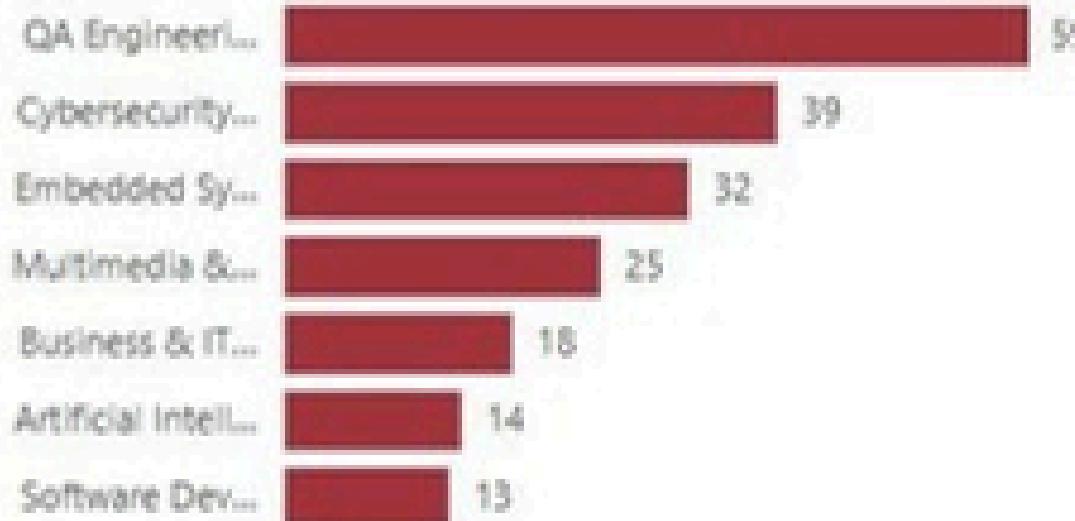


Number Of Tracks

18

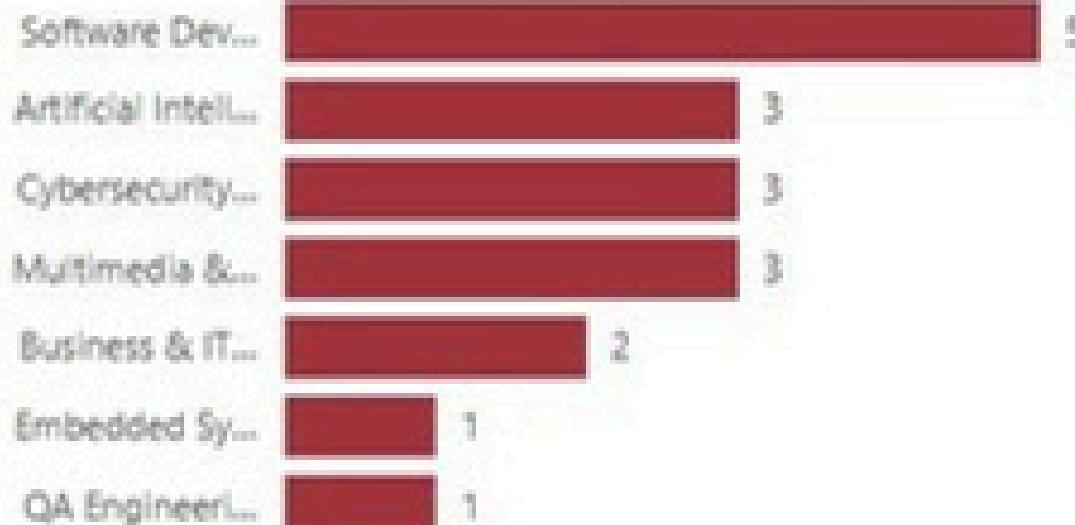


Instructor By Department



Dept Name	MGR ID	MGR Name	Salary	Instructors
QA Engineering & Validation	164	Emlyn	\$49,000	59
Software Development & Programming	9	Gregoor	\$47,000	13
Artificial Intelligence & Data Science	23	Janos	\$38,000	14
Cybersecurity & Networks	62	Ky	\$21,000	39
Embedded Systems & IoT	186	Livvie	\$50,000	32
Business & IT Management	122	Regan	\$41,000	18
Multimedia & Graphic Design	147	Royall	\$39,000	25

Tracks Per Department





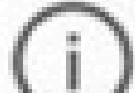
Navigation



Filters

Question Type

All



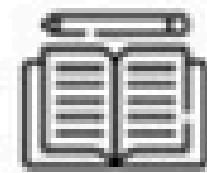
Number Of Questions

111



Number Of Courses

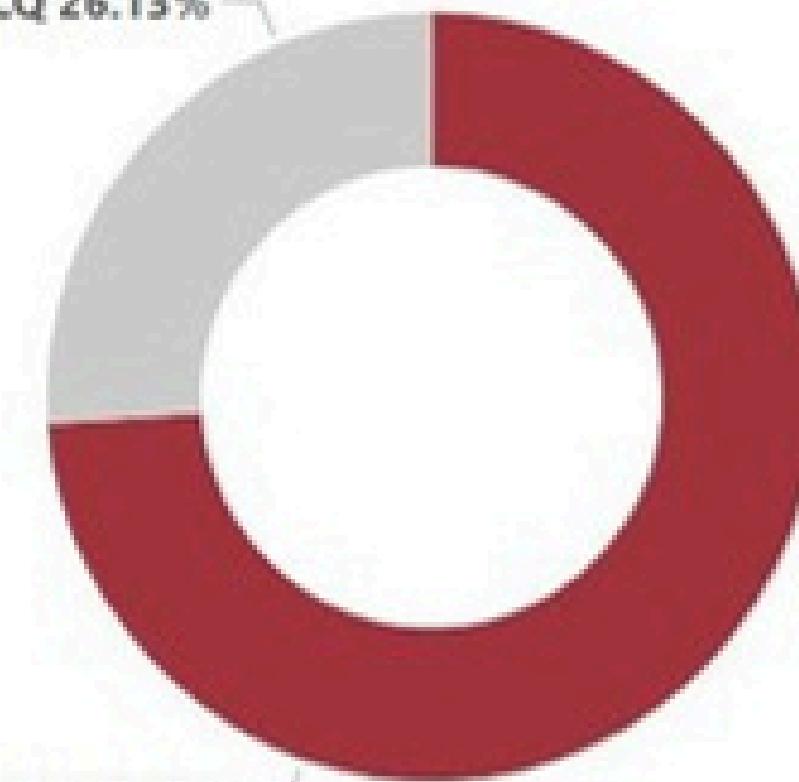
56



Course ID	Course Name	Question ID
1	Web Services	10
3	Web Services	22
5	Web Services	45
6	Web Services	53
7	Web Services	59
8	Web Services	69
8	Web Services	75
8	Web Services	78
9	Web Services	81
10	Web Services	93

Question Type

MCQ 26.13%



T/F 73.87%



Navigation



Filters

Date

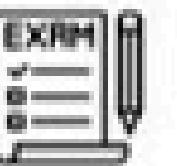
2/29/2016

2/20/2025



Number Of Exams

56



Average Pass Grade

70.36

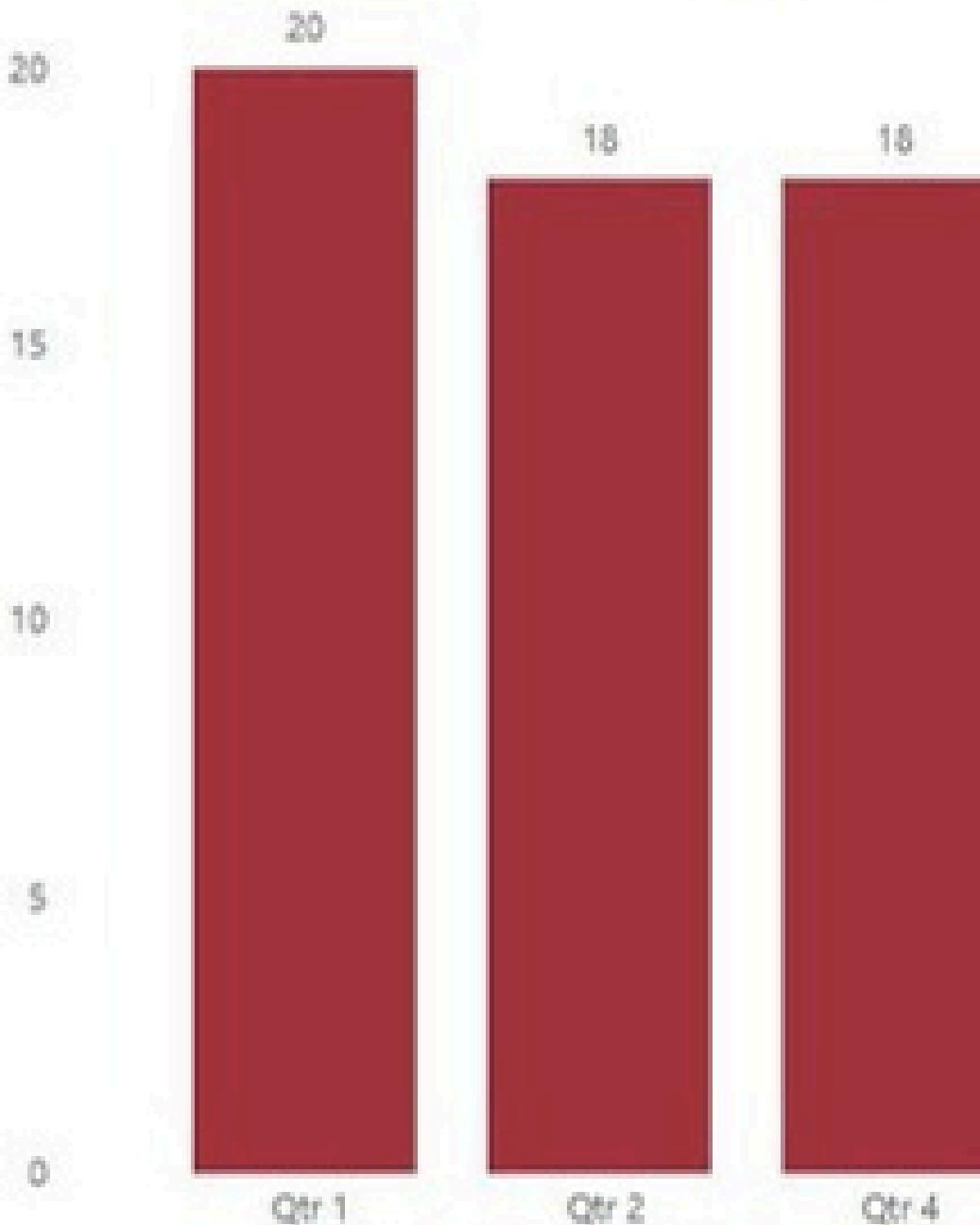


Average Exam Duration

2.94



Number Of Exams By Quarter



Track Name

Number Of Exams

using Python

Machine Learning & AI Development

Mobile App Development (Android & iOS)

Advanced Motion Graphics

Animation for Games & Apps

Cross-Platform App Development

Total

20

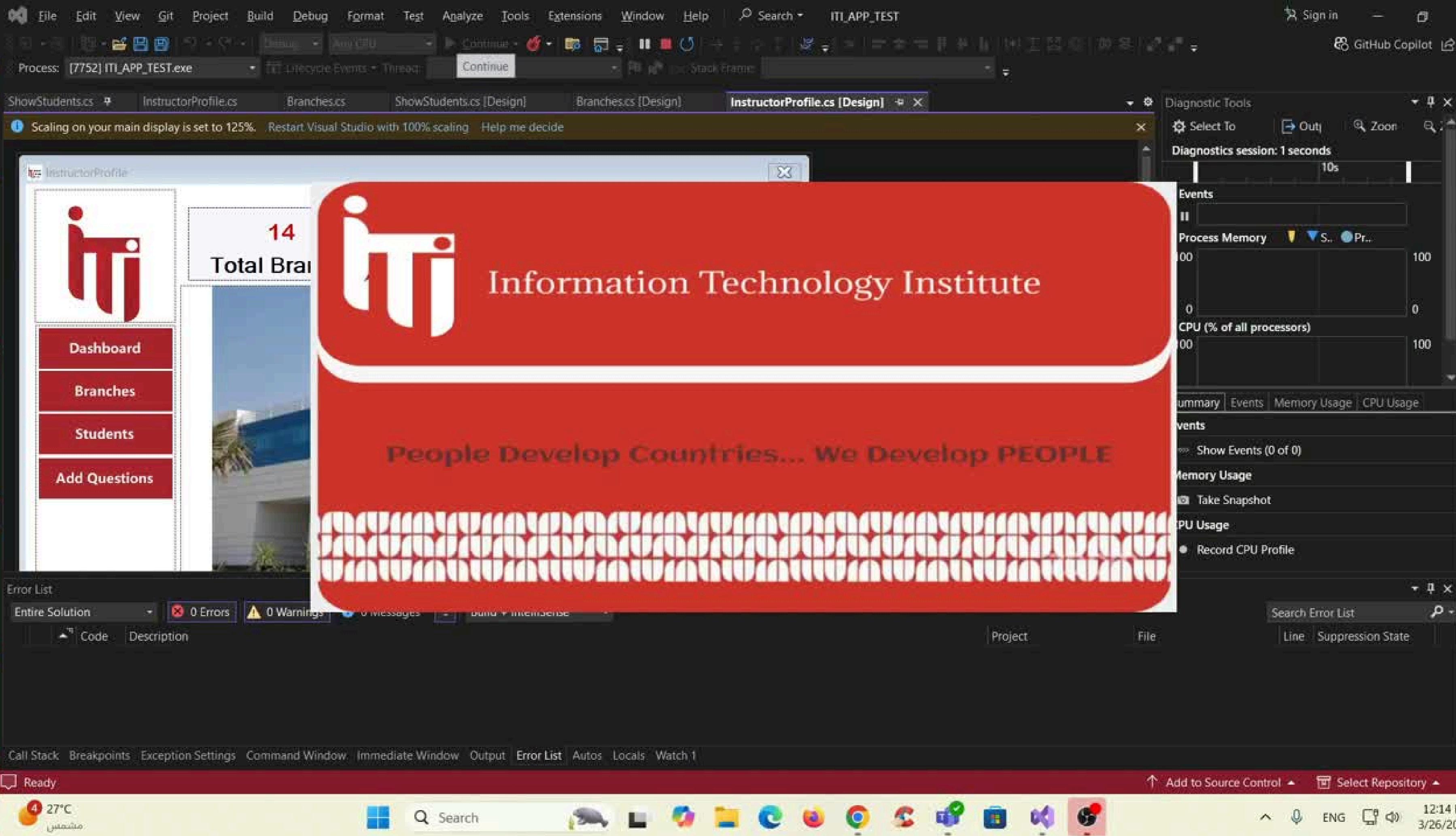
20

19

19

19

56





Information Technology Institute

People Develop Countries... We Develop PEOPLE

LoginForm

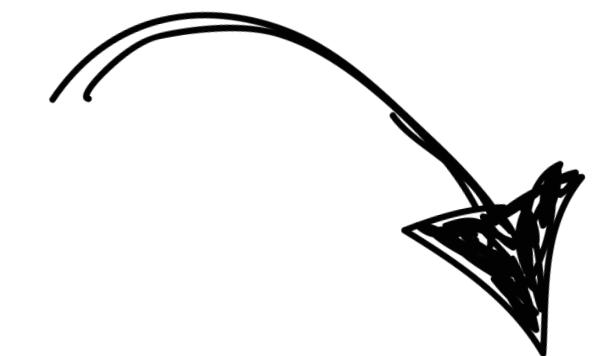
A screenshot of a Windows-style application window titled "LoginForm". The window has a red header bar with the title and a close button. The main content area is a light gray box containing a form. The form includes three text input fields: "Username" with value "Fernando3", "Password" with obscured value "*****", and "Role" with value "Student". Below the form is a large white "Login" button.

Username : Fernando3

Password : *****

Role : Student

Login



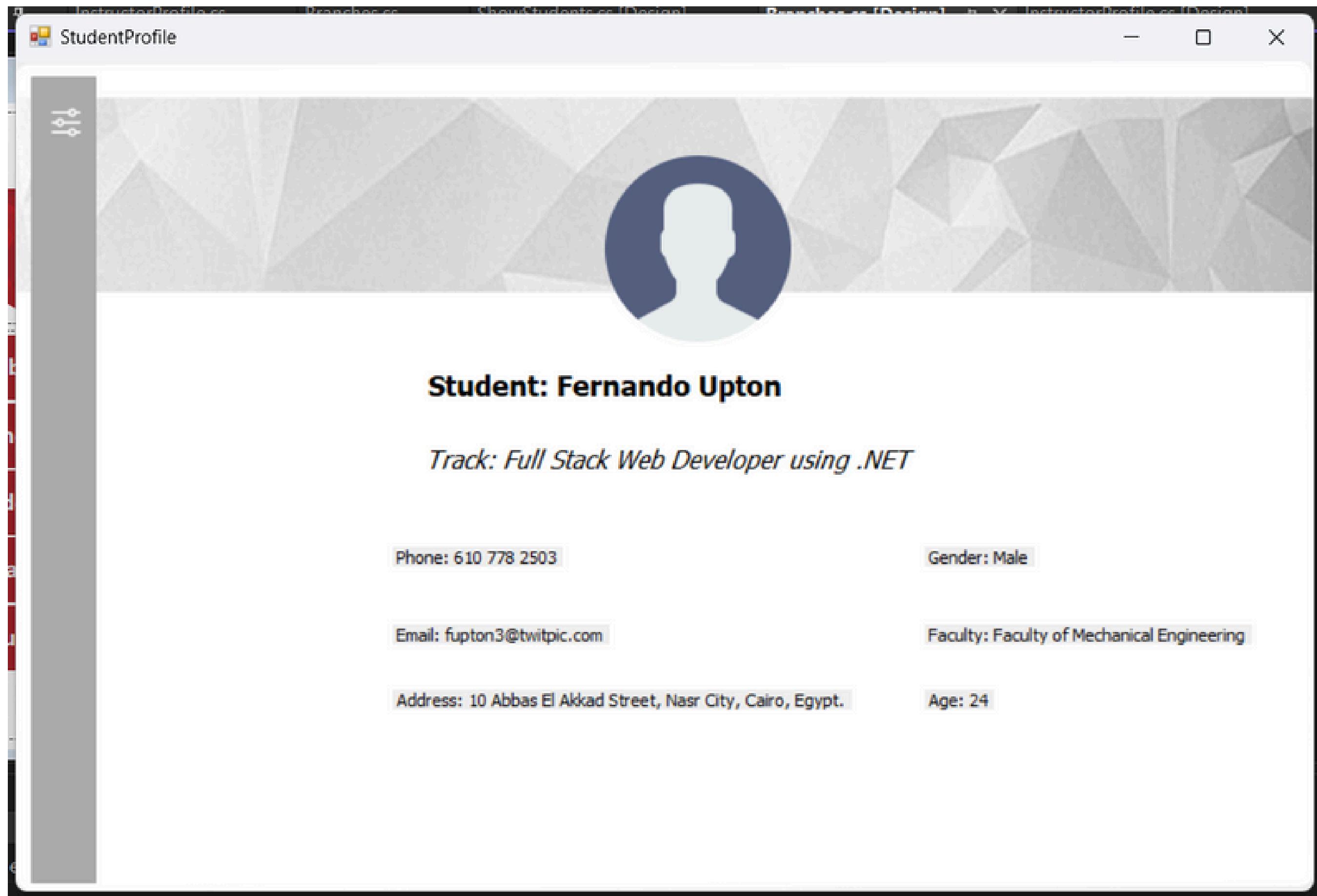
A screenshot of a cloned "LoginForm" window, identical in structure to the first one. It has a red header bar with the title and a close button. The main content area is a light gray box containing a form with the same three text input fields: "Username" (Fernando3), "Password" (zB2<W?gD7PwU), and "Role" (Student). Below the form is a large white "Login" button.

Username : Fernando3

Password : zB2<W?gD7PwU

Role : Student

Login



StudentProfile

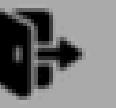


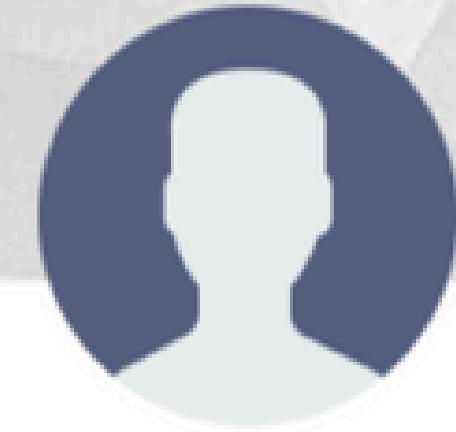
Student: Fernando Upton

Track: Full Stack Web Developer using .NET

Phone: 610 778 2503	Gender: Male
Email: fupton3@twitpic.com	Faculty: Faculty of Mechanical Engineering
Address: 10 Abbas El Akkad Street, Nasr City, Cairo, Egypt.	Age: 24

Log Out





Student: Fernando Upton

Track: Full Stack Web Developer using .NET

Courses :

- | | | | | | | | |
|---------|---------|--------|--------|---------|--------|--------|-------|
| 1. | 2. API | 3. | 4. | 5. | 6. C# | 7. | 8. |
| An... | Inte... | Asp... | ASP... | Buil... | Pro... | C++ | Cl... |
| 9. | 10. | 11. | 12. | 13. | 14. | 15. | 16. |
| Col... | Exc... | Gra... | Java | Jav... | Mon... | Pow... | SQ... |
| 17. | 18. | 19. | | | | | |
| Tabl... | Unit... | We... | | | | | |

Topics :

- | | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Adv... | Conn | Cre... | Data | Impl... | Intr... | Power | Power |
| Dat... | necting | Inte... | Impl... | Mo... | Row... | to P... | BI S... |
| | to | Mo... | Row... | Pro... | Pro... | Que... | |
| | Data | Pro... | Pro... | Pro... | Pro... | Que... | |
| | Sourc | Inte... | Row... | Row... | Row... | Que... | |
| | es & | Mo... | Pro... | Pro... | Pro... | Que... | |
| | ETL | Pro... | Pro... | Pro... | Pro... | Que... | |
| | Proces | Que... | Que... | Que... | Que... | Que... | |



TakeExam

Available Exams :

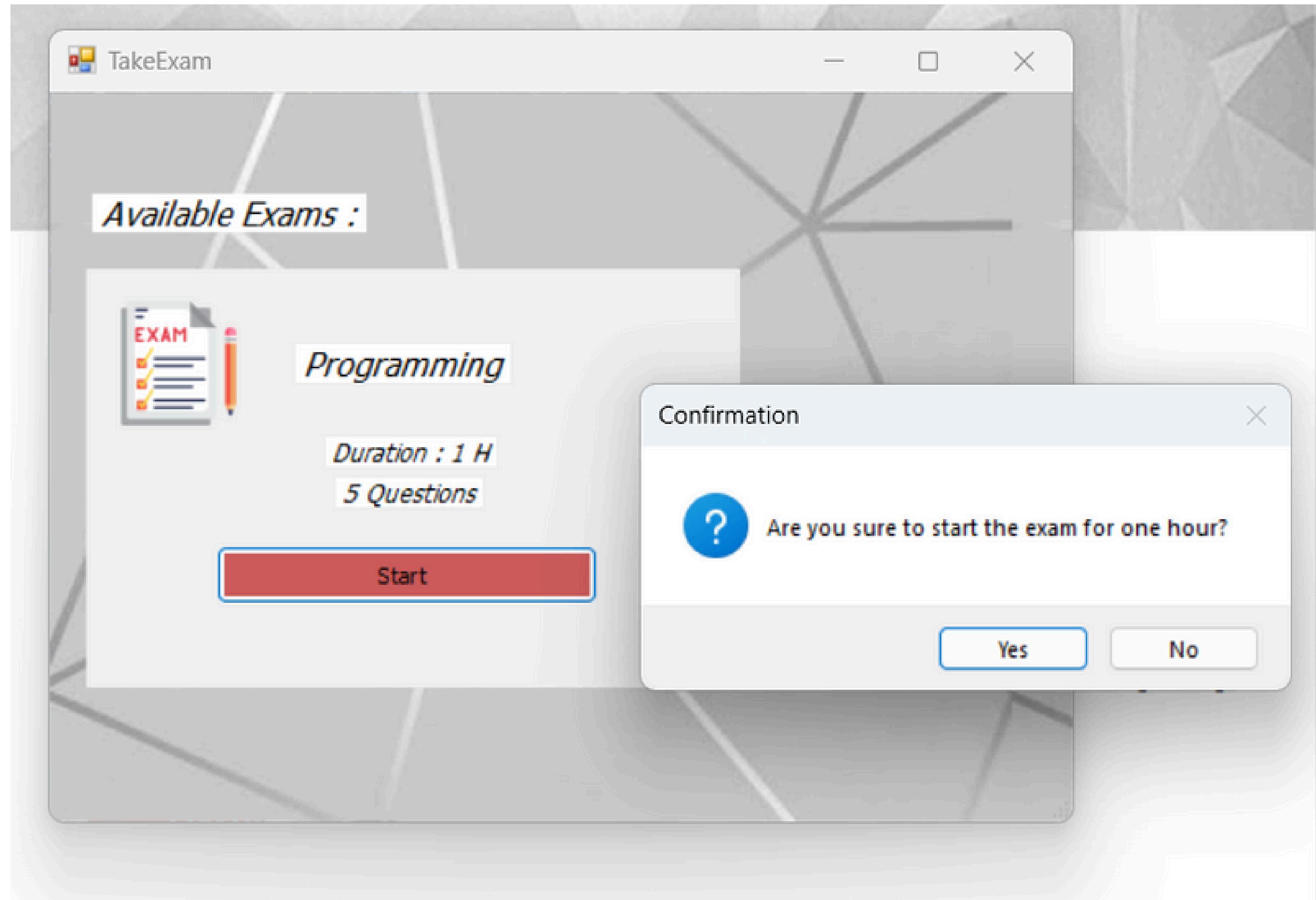


Programming

Duration : 1 H

5 Questions

Start



OpenExam

00:59:26

1- Inheritance feature of OOP indicates code reusability?

Answers:

True False

2 - Overloading << can show polymorphism?

Answers:

True False

3 - Assignment operator is evaluated Left to Right?

Answers:

True False

4 - Garbage Collection is manual process ?

Answers:

True False

5 - Variable name can begin with a letter "\$" or "_" ?

Answers:

True False

Submit

00:59:10

1 - Inheritance feature of OOP indicates code reusability?

Answers:

 True False

2 - Overloading << can show polymorphism?

Answers:

 True False

3 - Assignment operator is evaluated

Answers:

 True

4 - Garbage Collection is manual process

Answers:

 True

Quiz Result



You answered 4 question(s) out of 5
Your score: 40%

OK

5 - Variable name can begin with a letter "\$" or "_" ?

Answers:

 True False

Submit



Username :

A text input field containing the text "Nani199".

Password :

A password input field showing five asterisks. To its right is a small circular icon with a line through it, likely a clear or cancel button.

Role :

A dropdown menu showing the text "Instructor".

Login



- Dashboard
- Branches
- Students
- Exam
- Add Questions

14

Total Branches

200

Total Instructors

1000

Total Students





Dashboard

Branches

Students

Exam

Add Questions

Total Branches

	branch_id	branch_name	location
▶	1	Smart Village	Smart Village, K...
	2	Cairo University	Gamaa St, Oula,...
	3	New Capital	Building 4, Knowl...
	4	Fayoum	Al-Mashtal Distri...
	5	Alexandria	1 Mahmoud Sae...
	6	Mansoura	60 El-Gomhoury...
	7	Assiut	Assiut University...
	8	Ismailia	Ismailia-Suez Ca...
	9	Minya	Minia University ...
	10	Sohag	Sohag Universit...
	11	Aswan	Egypt Creativity...

Course

Java

Type

MCQ

Question :

What is the first step in the ETL process?

**Model Answer**

Extract

Choice (1)

Analyze

Choice (2)

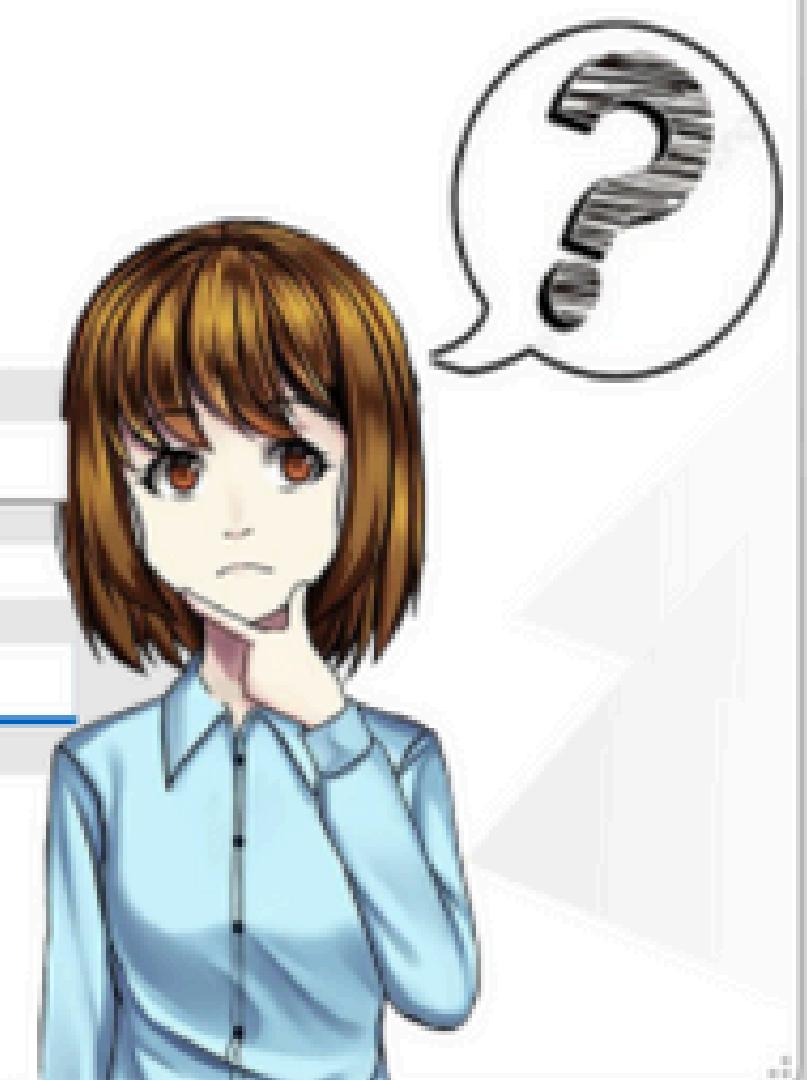
Load

Choice (3)

Extract

Choice (4)

Transform

 Add Question

AddQues

Course Java Type MCQ

Question : What is the first step in the ETL process?

Model Answer Extract

Choice (1) Analyze

Choice (2) Load

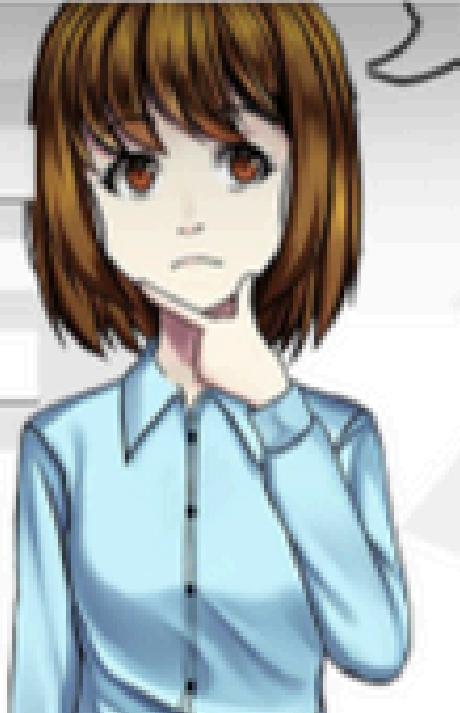
Choice (3) Extract

Choice (4) Transform

Add Question

Done , Question Num 114 Successfully added , and 4 Choices (ID from 287 to 290)

OK



	Question_ID	Question_Type	Question_ModelAnswer	Question	course_id
101	101	T/F	TRUE	text-decoration-line CSS property sets what kind of ...	11
102	102	T/F	TRUE	_____ is not among the eight principles foll...	11
103	103	T/F	FALSE	Upper Case Tools are CASE tools?	11
104	104	T/F	TRUE	Customer collaboration suits the Manifesto for Agile ...	11
105	105	T/F	TRUE	Software patch is defined as Emergency Fix.	11
106	106	T/F	TRUE	Democratic decentralized (DD) software developme...	11
107	107	T/F	TRUE	Attack actions compromise cyber security?	11
108	108	T/F	TRUE	Pharming is the hacking approach where cyber-crim...	11
109	109	T/F	TRUE	MITM is not a type of peer-to-peer cyber-crime?	12
110	110	T/F	TRUE	Buffer-overflow: A cyber-criminal or penetration test...	12
111	111	T/F	TRUE	Websites do Cyber attackers commonly target for f...	12
112	112	MCQ	java	java?	1
113	113	MCQ	oop	oop?	20
114	114	MCQ	Extract	What is the first step in the ETL process?	1

PROJECT IMPACT AND FUTURE OPPORTUNITIES

Saves Time

Automated grading reduces workload by 40%.



Ensures Data Integrity

99.99% data integrity achieved.



Enhances Security

Zero reported security breaches.

The project improved efficiency and data accuracy. It has also streamlined reporting. This project can integrate with other LMS platforms. There is opportunity for advanced analytics. We can expand functionality to support more types of assessment.



PROJECT CONCLUSION



Database Design

ERD and structured database setup.



Data Generation

Insertion of generated data.



Stored Procedures

Constraints for data integrity.



SSRS Reports

Power BI dashboards for decision-making.





THANKYOU

