CSC1023 - ASSIGNMENT 2

**Project Requirement 4**

Python database connection –

try:  
 connection = mysql.connector.connect(  
 host="kpaeglis01.webhosting1.eeecs.qub.ac.uk",  
 port=3306,  
 database="kpaeglis01",  
 user="kpaeglis01",  
 password="0QDR4w20nlpCK7Cz"  
 )  
  
 if connection.is\_connected():  
 print("Connected to mySQL database")  
 while True:  
 display\_menu()  
 choice = input("Enter your choice: ")  
  
 if choice == "1":  
 view\_table("applicants")  
 elif choice == "2":  
 view\_table("application")  
 elif choice == "3":  
 view\_table("job")  
 elif choice == "4":  
 insert\_table()  
 elif choice == "5":  
 execute\_query()  
 elif choice == "6":  
 print("Exiting the program.")  
 break  
 else:  
 print("Invalid choice. Please try again.")  
except Error as e:  
 print("Error connecting to mySQL:", e)  
  
finally:  
 if 'connection' in locals() and connection.is\_connected():  
 connection.close()  
 print("mySQL connection closed")

The connection is done by trying the connection, if successful, it will display the message “Connected to mySQL database”, and then display a menu to choose from. If unsuccessful it will give display the message “Error connecting to mySQL: ” followed by the exception, when it’s closed after successful connection it will display the message “mySQL connection closed”.

A screenshot of a computer

Description automatically generated

**Project Requirement 3**

Query 1 – WHERE

The recruitment company wants to send a online Northern Irish themed weekly newsletter for students/applicants residing in Northern Ireland and ROI.

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A screenshot of a computer program

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A screenshot of a computer screen

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A screenshot of a computer

Description automatically generated

Query 2 – Aggregate Function

Query 2 – Aggregate Functions

Macrosoft wants to prioritise English and Welsh applicants for Macrosoft jobs to work in their London office and are counted based on their county. So they would like to see how many applicants have applied from mainland UK.

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A screenshot of a computer program

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A close-up of a computer screen

Description automatically generated

Query 3 – JOIN

Keinos is urgently trying to hire a new C++ Web Developer in Belfast to support their current project, as one of the C++ Web Developers was unexpectedly hospitalised for necrotising fasciitis and need to prioritise applicants for that specific role.

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A screenshot of a computer program

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A screenshot of a computer

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Query 4 – Filtering Records

All applications submitted on the month of March 2024.

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A table with numbers and letters

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A screenshot of a computer

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Project Requirement 4.1, accessing views in console.

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