



# **DATABASE SYSTEMS**

**SEMESTER PROJECT:**

**LINKEDIN JOB POSTS INSIGHTS**

# **LINKEDIN JOB POSTS INSIGHTS**

## **PROJECT SCOPE**

The LinkedIn Job Posts Insights project aims to revolutionize the job search and recruitment processes by developing a comprehensive job posting database that centralizes job listings and provides valuable insights. This project addresses the inefficiencies and fragmentation present in the current job market, enhancing the job search experience for job seekers and optimizing recruitment strategies for companies.

- **Centralized Job Listings:**

The centralization of job listings is crucial to overcoming the fragmented nature of the job market. By aggregating job postings from various sources, the database will provide users with a diverse and comprehensive array of job opportunities, ensuring that job seekers can find relevant openings and companies can reach a broader audience.

- **Enhanced Job Search Experience:**

The project aims to significantly improve the job search process by offering advanced search filters and personalized recommendations. Job seekers will benefit from robust search functionality, enabling them to filter job listings by job title, location, industry, seniority level, and other relevant criteria.

- **Data-Driven Market Insights:**

The project leverages data analytics to offer actionable insights into job market trends, salary benchmarks, and recruitment strategies. Companies can access a comprehensive analytics dashboard that displays key metrics such as time-to-fill, candidate quality, and hiring trends. By analyzing market data, businesses can stay ahead of the competition and make informed decisions.

- **Real-Time Updates and Notifications:**

To ensure users are always up-to-date, the platform will provide real-time notifications about new job postings and changes in application status. This feature will keep job seekers informed about relevant opportunities and allow companies to promptly respond to candidate applications.

- **Secure and Scalable Infrastructure:**

The database will be built on a secure and scalable infrastructure to handle a large volume of job listings and user interactions. Robust security measures will protect user data, ensuring compliance with data protection regulations. The platform architecture will be designed to scale, accommodating an increasing number of users and job listings without compromising performance.

- **User-Friendly Interface:**

A key aspect of the project is the development of an intuitive and easy-to-navigate interface for both job seekers and companies. The platform will feature a responsive design, accessible on various devices including desktops, tablets, and smartphones. The user experience will be seamless, with clear navigation and minimal learning curve. Additionally, integrated help and support features will assist users with any issues they may encounter.

# **GOALS AND OBJECTIVES**

These goals and objectives provide a comprehensive framework for developing the LinkedIn Job Posts Insights project. By achieving these objectives, stakeholders can make informed decisions, improve the recruitment process, enhance the job search experience, and contribute to the overall efficiency of the job market.

## **Business Performance**

- **Goal:** Assess the performance of the job market and recruitment strategies.
- **Objective:** Analyze job posting and application data to identify trends and improve hiring efficiency.

## **Consumer Behavior**

- **Goal:** Examine the behavior and preferences of job seekers.
- **Objective:** Study job seekers' search patterns and application behaviors to tailor recommendations and enhance the interface.

## **Recruitment Optimization**

- **Goal:** Optimize recruitment processes for companies.
- **Objective:** Automate candidate screening, interview scheduling, and provide analytics for refining recruitment strategies.

## **Market Insights**

- **Goal:** Provide actionable insights into job market dynamics.
- **Objective:** Generate reports on job market trends, salary benchmarks, and industry-specific hiring practices.

## **User Engagement**

- **Goal:** Enhance user engagement and satisfaction.
- **Objective:** Implement personalized job recommendations, real-time notifications, and develop a user-friendly interface.

## **Data Security**

- **Goal:** Ensure the security and privacy of user data.
- **Objective:** Implement robust security measures and ensure compliance with data protection regulations.

## **Scalability and Performance**

- **Goal:** Build a scalable and high-performance platform.
- **Objective:** Optimize infrastructure to handle growth and continuously monitor system performance.

## **Innovation and Development**

- **Goal:** Foster continuous innovation and development within the platform.
- **Objective:** Allocate resources for research and development to incorporate the latest technologies and trends in recruitment and job searching.

# **BASIC FEATURES**

The basic features of a LinkedIn Job Posting database typically include:

- **Centralized Job Listings**

The database aggregates job postings from various sources into a single, centralized platform. This consolidation allows users to access a diverse range of job opportunities without needing to search multiple websites.

- **Advanced Search Filters**

Job seekers can use advanced search filters to narrow down job opportunities based on criteria such as job title, location, seniority level, industry, and employment type. This feature enhances the efficiency and relevance of search results.

- **Real-Time Hiring Status**

The database provides up-to-date information on the hiring status of job postings. This real-time update allows job seekers to apply to positions that are actively hiring, improving their chances of securing employment.

- **Job Title Details**

Each job listing includes comprehensive details about the job title, including job name, hiring status, job function, employment type, and posting date. This information helps job seekers understand the role and its requirements.

- **Company Information**

The database includes detailed information about companies posting job titles, such as company name, industry, and location. This helps job seekers learn more about potential employers and their respective industries.

- **Seniority Levels**

Job titles are categorized by seniority levels (e.g., entry-level, associate, mid-senior), allowing job seekers to find positions that match their experience and career stage.

- **Experience Requirements**

Each job posting includes details about the required experience, such as skills, years of experience, expected salary, and educational degree. This helps job seekers determine if they meet the qualifications before applying.

- **Company-Job Relationship**

The database maintains relationships between companies and job titles, ensuring that each job posting is accurately linked to the company offering it. This association aids in organizing and retrieving job listings efficiently.

- **User-Friendly Interface**

The database offers a user-friendly interface that is easy to navigate for both job seekers and companies. This feature enhances user experience and encourages continuous use of the platform.

## **GUI FEATURES**

These GUI (Graphical User Interface) features provide basic CRUD (Create, Read, Update, Delete) operations for managing job postings and related records in the job posting database. The application interacts with the database to store, retrieve, update, and delete job information.

The backend represents a C# Windows Form application for managing job postings in the database system. It includes functionality to add, update, delete, and search records. Here are the features of this application:

- **Insert**

When the user clicks the "Add" button, the application inserts a new job posting record into the database using the values entered in the textboxes. The SQL INSERT statement is executed to add the record.

- **Update**

When the user clicks the "Update" button, the application updates an existing job posting record in the database based on the job title ID entered in the textbox. The SQL UPDATE statement is executed to modify the record.

- **Delete**

When the user clicks the "Delete" button, the application deletes a job posting record from the database based on the job title ID entered in the textbox. The SQL DELETE statement is executed to remove the record.

- **Search**

When the user clicks the "Search" button, the application retrieves job posting records from the database that match the job title ID entered in the textbox. The SQL SELECT statement is executed with a WHERE clause to fetch the relevant record(s).

- **Database Connection**

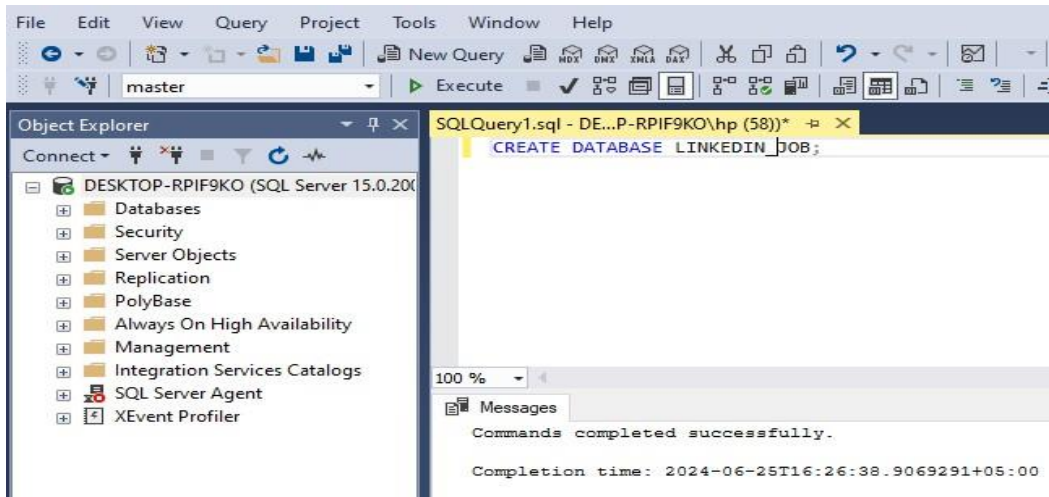
The application establishes a connection to the database using a SqlConnection object and the connection string specified in the code. This connection is used to execute SQL commands for CRUD operations.

- **User-Friendly Interface**

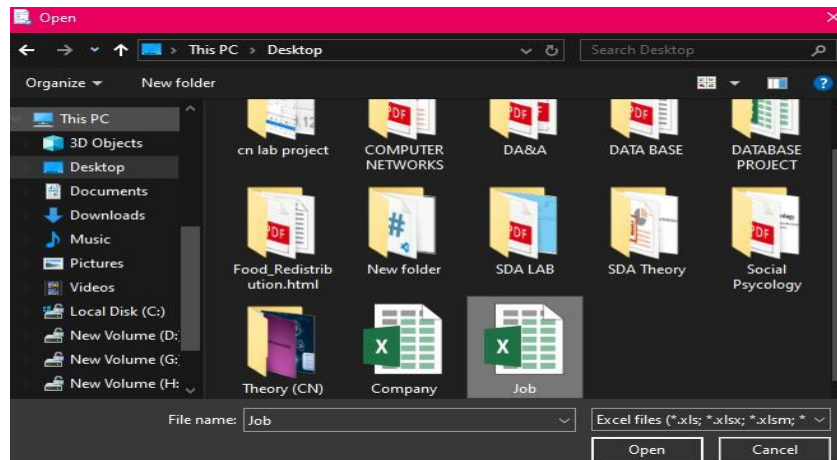
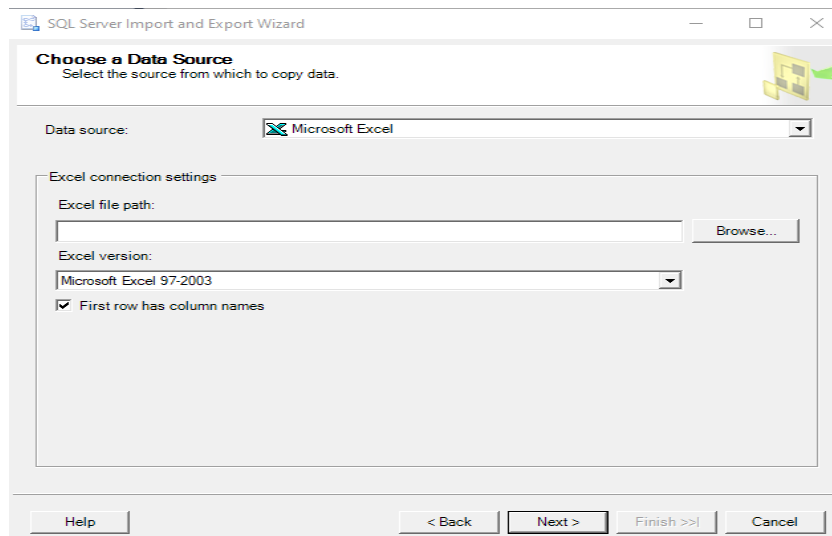
The application features a user-friendly interface with clearly labeled buttons and input fields. This ensures that users can easily navigate the application and perform CRUD operations without difficulty.

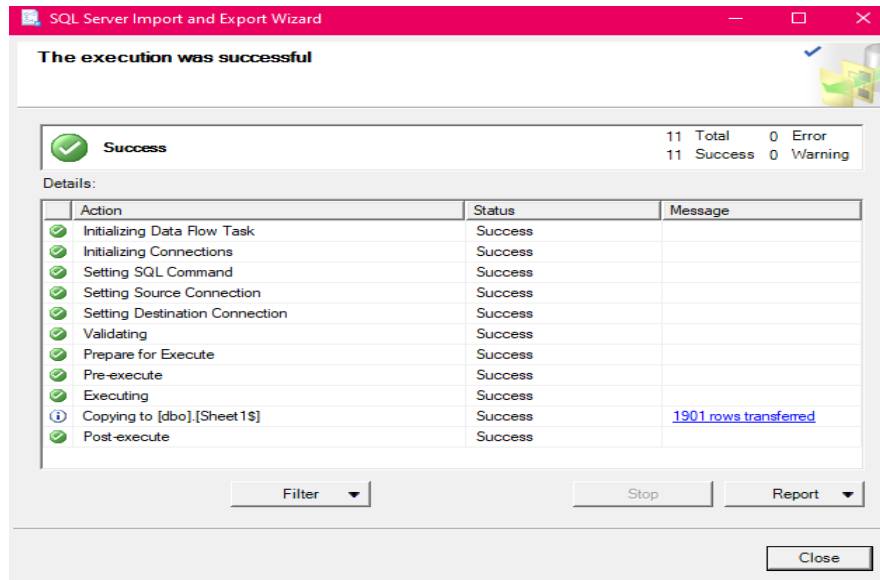


# CREATING DATABASE



# IMPORTING TABLES





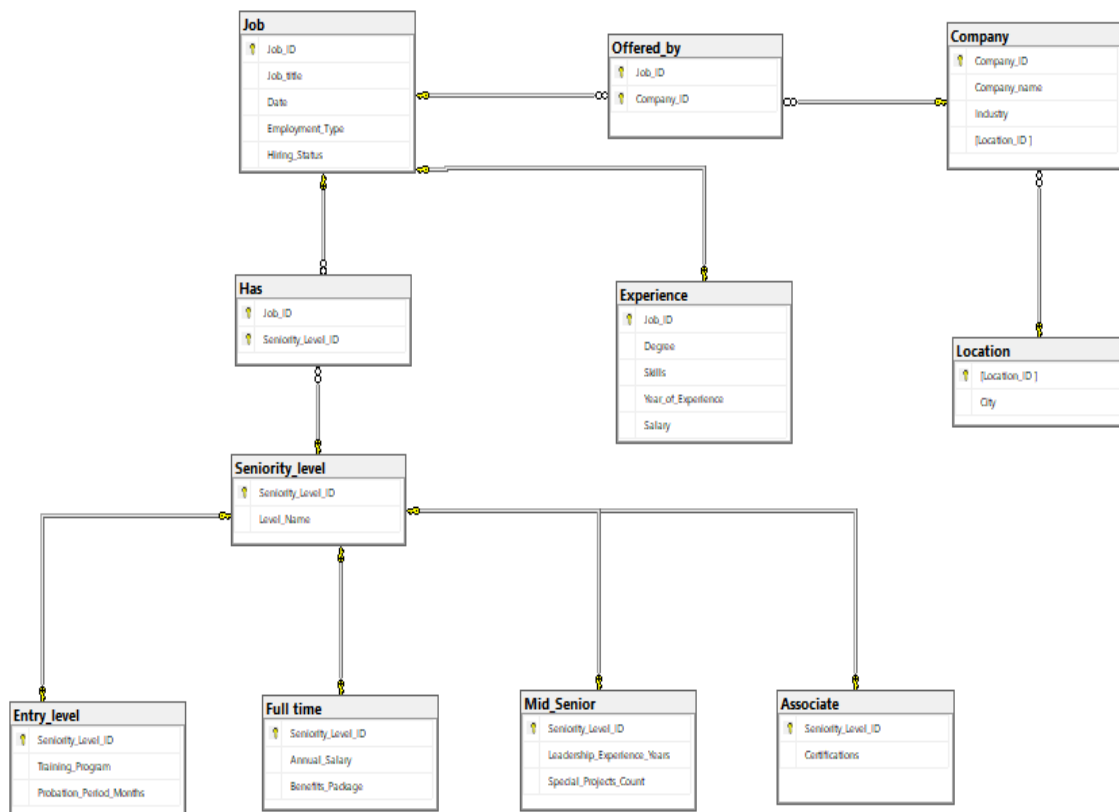
## IMPORTED TABLES



Results					
Messages					
	Job_ID	Job_title	Date	Employment_Type	Hiring_Status
1	1	Data Scientist	2023-04-13	Full-time	Be an early applicant
2	2	Data Scientist	2023-03-31	Part-time	Be an early applicant
3	3	Software Developer	2023-04-25	Full-time	Be an early applicant
4	4	Sr Data Analyst Immediate Need	2023-04-29	Full-time	Be an early applicant
5	5	1099 Account Manager - 46	2023-01-26	Full-time	Be an early applicant
6	6	Administration Executive	2023-02-24	Part-time	Actively Hiring
7	7	Administrative Support (I)	2023-03-28	Full-time	N J2
8	8	AI/ML Workloads Engineer	2023-03-31	Full-time	Actively Hiring
9	9	Assistant Manager- Customer Marketing	2023-02-10	Full-time	Actively Hiring
10	10	Assistant Project Manager	2023-03-01	Full-time	Actively Hiring
11	11	Associate Data scientist	2023-02-06	Full-time	Actively Hiring
12	12	Associate Vice President – Performance and Rewards	2023-04-06	Full-time	Actively Hiring

✓ Query executed successfully. DESKTOP-70DHDVV (15.0 RTM)

# RELATION BETWEEN TABLES



## CREATING USER INTERFACE

### FORM 1

#### CODE:

##### **FORM1.CS**

```
using form1;  
  
using System;  
  
using System.Windows.Forms;  
  
namespace WindowsFormsApp3  
{  
    public partial class Form3 : Form
```



```
{    public Form3()
    {
        InitializeComponent();
    }

    private void button2_Click(object sender, EventArgs e)
    {
        // Create and show Form1
        Form1 form1 = new Form1();
        form1.Show(); // Assuming Form1 is shown and not modal
        // Hide Form3
        this.Hide();
    }

    private void label1_Click(object sender, EventArgs e)
    {
        ShowForms();
    }

    private void ShowForms()
    {
        // Create and show Form1
        Form1 form1 = new Form1();
        form1.Show(); // Assuming Form1 is shown and not modal
        // After Form1 is closed, create and show Form2
        Form2 form2 = new Form2();
        form2.ShowDialog();
        // Close Form3
        this.Close();
    }
}
```

## **FORM1.DESIGNER.CS**

```
namespace WindowsFormsApp3
{
    partial class Form3
    {
        private System.ComponentModel.IContainer components = null;
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code
        private void InitializeComponent()
        {
            System.ComponentModel.ComponentResourceManager resources = new
            System.ComponentModel.ComponentResourceManager(typeof(Form3));

            this.button1 = new System.Windows.Forms.Button();
            this.button2 = new System.Windows.Forms.Button();
            this.label1 = new System.Windows.Forms.Label();
            this.SuspendLayout();
            this.button1.Font = new System.Drawing.Font("Times New Roman", 15.75F,
            System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

            this.button1.Location = new System.Drawing.Point(187, 240);

            this.button1.Name = "button1";

            this.button1.Size = new System.Drawing.Size(125, 46);

            this.button1.TabIndex = 0;
```

```
this.button1.Text = "Local User";

    this.button1.UseVisualStyleBackColor = true;

    // button2

    this.button2.Font = new System.Drawing.Font("Times New Roman", 15.75F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)(0)));
    this.button2.Location = new System.Drawing.Point(468, 232);
    this.button2.Name = "button2";
    this.button2.Size = new System.Drawing.Size(212, 54);
    this.button2.TabIndex = 1;
    this.button2.Text = "Adminnistrator";
    this.button2.UseVisualStyleBackColor = true;

    // label1

    this.label1.AutoSize = true;

    this.label1.Font = new System.Drawing.Font("Times New Roman", 27.75F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)(0)));
    this.label1.Location = new System.Drawing.Point(297, 93);
    this.label1.Name = "label1";
    this.label1.Size = new System.Drawing.Size(199, 42);
    this.label1.TabIndex = 2;
    this.label1.Text = "Select User ";
    this.label1.Click += new System.EventHandler(this.label1_Click);

    // Form3

    this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
    this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
    this.BackColor = System.Drawing.SystemColors.InactiveCaption;
    this.BackgroundImage =
((System.Drawing.Image)(resources.GetObject("$this.BackgroundImage")));
    this.BackgroundImageLayout = System.Windows.Forms.ImageLayout.Stretch;
    this.ClientSize = new System.Drawing.Size(800, 450);
```

```
this.Controls.Add(this.label1);

    this.Controls.Add(this.button2);
    this.Controls.Add(this.button1);

    this.Name = "Form3";
    this.Text = "Form3";
    this.ResumeLayout(false);
    this.PerformLayout();

}

#endregion

private System.Windows.Forms.Button button1;
private System.Windows.Forms.Button button2;
private System.Windows.Forms.Label label1;
}
}
```

## **OUTPUT:**



## FORM 2

### CODE:

#### **LOGIN FORM.CS**

```
using System;
using System.Windows.Forms;
using WindowsFormsApp3;
namespace form1
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void loginButton_Click(object sender, EventArgs e)
        {
            string email = emailTextBox.Text;

            string password = passwordTextBox.Text;

            if (email == "Rawish_tehreem" && password == "123")
            {
                MessageBox.Show("Login successful!", "Success", MessageBoxButtons.OK,
                MessageBoxIcon.Information);

                Form2 = new Form2();

                form2.Show();

                this.Hide(); }
            else {
                MessageBox.Show("Invalid email or password.", "Error",
                MessageBoxButtons.OK, MessageBoxIcon.Error); } }

        private void forgotPasswordLink_LinkClicked(object sender,
        LinkLabelLinkClickedEventArgs e)
        {
            MessageBox.Show("Forgot password functionality to be implemented.", "Info",
            MessageBoxButtons.OK, MessageBoxIcon.Information);
        }

        private void passwordTextBox_TextChanged(object sender, EventArgs e) {
        }
    }
}
```

## LOGIN FORM1.DESIGNER.CS

```
namespace form1
{
    partial class Form1
    {
        private System.ComponentModel.IContainer components = null;

        /// <param name="disposing">true if managed resources should be disposed; otherwise,
        false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code
        private void InitializeComponent()
        {
            System.ComponentModel.ComponentResourceManager resources = new
            System.ComponentModel.ComponentResourceManager(typeof(Form1));
            this.emailLabel = new System.Windows.Forms.Label();
            this.passwordLabel = new System.Windows.Forms.Label();
            this.emailTextBox = new System.Windows.Forms.TextBox();
            this.passwordTextBox = new System.Windows.Forms.TextBox();
            this.loginButton = new System.Windows.Forms.Button();
            this.forgotPasswordLink = new System.Windows.Forms.LinkLabel();
        }
    }
}
```



```
this.checkBox1 = new System.Windows.Forms.CheckBox();

this.label1 = new System.Windows.Forms.Label();

this.SuspendLayout();

// emailLabel

this.emailLabel.AutoSize = true;

this.emailLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)0));

this.emailLabel.Location = new System.Drawing.Point(223, 121);

this.emailLabel.Name = "emailLabel";

this.emailLabel.Size = new System.Drawing.Size(81, 19);

this.emailLabel.TabIndex = 0;

this.emailLabel.Text = "User name :";

// passwordLabel

this.passwordLabel.AutoSize = true;

this.passwordLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)0));

this.passwordLabel.Location = new System.Drawing.Point(223, 157);

this.passwordLabel.Name = "passwordLabel";

this.passwordLabel.Size = new System.Drawing.Size(72, 19);

this.passwordLabel.TabIndex = 1;

this.passwordLabel.Text = "Password:";

// emailTextBox

this.emailTextBox.Font = new System.Drawing.Font("Times New Roman", 9F);

this.emailTextBox.Location = new System.Drawing.Point(354, 119);

this.emailTextBox.Name = "emailTextBox";

this.emailTextBox.Size = new System.Drawing.Size(172, 21);

this.emailTextBox.TabIndex = 2;
```

```
// passwordTextBox

this.passwordTextBox.Font = new System.Drawing.Font("Times New Roman", 9F);
this.passwordTextBox.Location = new System.Drawing.Point(354, 157);
this.passwordTextBox.Name = "passwordTextBox";
this.passwordTextBox.PasswordChar = '*';
this.passwordTextBox.Size = new System.Drawing.Size(172, 21);
this.passwordTextBox.TabIndex = 3;
this.passwordTextBox.TextChanged += new
System.EventHandler(this.passwordTextBox_TextChanged);

// loginButton

this.loginButton.Font = new System.Drawing.Font("Times New Roman", 11.25F,
((System.Drawing.FontStyle)((System.Drawing.FontStyle.Bold | System.Drawing.FontStyle.Italic))),
System.Drawing.GraphicsUnit.Point, ((byte)(0)));
this.loginButton.Location = new System.Drawing.Point(327, 203);
this.loginButton.Name = "loginButton";
this.loginButton.Size = new System.Drawing.Size(107, 36);
this.loginButton.TabIndex = 4;
this.loginButton.Text = "Login";
this.loginButton.UseVisualStyleBackColor = true;
this.loginButton.Click += new System.EventHandler(this.loginButton_Click);

// forgotPasswordLink

this.forgotPasswordLink.AutoSize = true;
this.forgotPasswordLink.Font = new System.Drawing.Font("Times New Roman", 9.75F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(0)));
this.forgotPasswordLink.Location = new System.Drawing.Point(420, 264);
this.forgotPasswordLink.Name = "forgotPasswordLink";
this.forgotPasswordLink.Size = new System.Drawing.Size(132, 15);
this.forgotPasswordLink.TabIndex = 6;
this.forgotPasswordLink.TabStop = true;
this.forgotPasswordLink.Text = "Forgot your password?";
```

```
this.forgotPasswordLink.LinkClicked += new
System.Windows.Forms.LinkLabelLinkClickedEventHandler(this.forgotPasswordLink_LinkClicked)
;

// checkBox1

this.checkBox1.AutoSize = true;

this.checkBox1.Font = new System.Drawing.Font("Times New Roman", 9.75F,
System.Drawing.FontStyle.Italic, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

this.checkBox1.Location = new System.Drawing.Point(242, 260);

this.checkBox1.Name = "checkBox1";

this.checkBox1.Size = new System.Drawing.Size(103, 19);

this.checkBox1.TabIndex = 7;

this.checkBox1.Text = "Remember me ";

this.checkBox1.UseVisualStyleBackColor = true;

// label1

this.label1.AutoSize = true;

this.label1.Font = new System.Drawing.Font("Times New Roman", 24F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

this.label1.Location = new System.Drawing.Point(287, 35);

this.label1.Name = "label1";

this.label1.Size = new System.Drawing.Size(226, 36);

this.label1.TabIndex = 8;

this.label1.Text = "LOGIN FORM";

// Form1

this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.BackColor = System.Drawing.SystemColors.InactiveCaption;

this.BackgroundImage =
((System.Drawing.Image)(resources.GetObject("$this.BackgroundImage")));

this.ClientSize = new System.Drawing.Size(769, 433);

this.Controls.Add(this.label1);
```

```

this.Controls.Add(this.checkBox1);

    this.Controls.Add(this.forgotPasswordLink);

    this.Controls.Add(this.loginButton);

    this.Controls.Add(this.passwordTextBox);

    this.Controls.Add(this.emailTextBox);

    this.Controls.Add(this.passwordLabel);

    this.Controls.Add(this.emailLabel);

    this.DoubleBuffered = true;

    this.Font = new System.Drawing.Font("Microsoft Sans Serif", 8.25F,
System.Drawing.FontStyle.Italic, System.Drawing.GraphicsUnit.Point, ((byte)0));

    this.Name = "Form1";

    this.ShowInTaskbar = false;

    this.Text = "Login";

    this.TransparencyKey = System.Drawing.Color.FromArgb(((int)(((byte)192)))),
((int)(((byte)192)))), ((int)(((byte)255))));

    this.ResumeLayout(false);

    this.PerformLayout();
}

#endregion

private System.Windows.Forms.Label emailLabel;
private System.Windows.Forms.Label passwordLabel;
private System.Windows.Forms.TextBox emailTextBox;
private System.Windows.Forms.TextBox passwordTextBox;
private System.Windows.Forms.Button loginButton;
private System.Windows.Forms.LinkLabel forgotPasswordLink;
private System.Windows.Forms.CheckBox checkBox1;
private System.Windows.Forms.Label label1;
}
}

```

## **OUTPUT:**



## **FORM 3**

### **CODE:**

#### **FORM3.CS**

```
using System;  
using System.Collections.Generic;  
using System.ComponentModel;  
using System.Data;  
using System.Data.SqlClient;  
using System.Drawing;  
using System.Linq;  
using System.Text;  
using System.Threading.Tasks;
```

```

namespace DATABASE_FINAL_PROJECT
{
    public partial class Form4 : Form
    {
        private TextBox jobIdTextBox;
        private TextBox jobTitleTextBox;
        private TextBox dateTextBox;
        private TextBox employmentTypeTextBox;
        private TextBox hiringStatusTextBox;
        private Button insertButton;
        private Button updateButton;
        private Button deleteButton;
        private Button searchButton;

        public Form4()
        {
            InitializeComponent();
        }
        private void InitializeComponent()
        {
            this.components = new System.ComponentModel.Container();
            this.SuspendLayout();
            this.Text = "Job Management";
            this.Size = new System.Drawing.Size(800, 600);
            this.BackColor = System.Drawing.Color.White;
            this.BackgroundImage =
System.Drawing.Image.FromFile("C:\\Users\\HP\\Desktop\\pixabay-linkedln-
1660283998.jpg");

```



```
this.BackgroundImageLayout = System.Windows.Forms.ImageLayout.Stretch;

// Title Label
Label titleLabel = new Label();

titleLabel.Text = "LINKEDIN JOBS";

titleLabel.Font = new System.Drawing.Font("Times new roman", 23F,
System.Drawing.FontStyle.Bold);

titleLabel.ForeColor = System.Drawing.Color.Black;

titleLabel.AutoSize = true;

titleLabel.Location = new System.Drawing.Point(250, 20);

this.Controls.Add(titleLabel);


// Job ID
Label jobIdLabel = new Label();

jobIdLabel.Text = "Job ID:";

jobIdLabel.Location = new System.Drawing.Point(200, 80);

jobIdLabel.Font = new System.Drawing.Font("Times new roman", 10F);

this.Controls.Add(jobIdLabel);

jobIdTextBox = new TextBox();

jobIdTextBox.Name = "JobIDTextBox";

jobIdTextBox.Location = new System.Drawing.Point(320, 80);

jobIdTextBox.Size = new System.Drawing.Size(200, 30);

this.Controls.Add(jobIdTextBox);


// Job Title
Label jobTitleLabel = new Label();

jobTitleLabel.Text = "Job Title:";

jobTitleLabel.Location = new System.Drawing.Point(200, 120);

jobTitleLabel.Font = new System.Drawing.Font("Times new roman", 10F);

this.Controls.Add(jobTitleLabel);
```

```
// Job Title
```

```
    Label jobTitleLabel = new Label();  
    jobTitleLabel.Text = "Job Title:";  
    jobTitleLabel.Location = new System.Drawing.Point(200, 120);  
    jobTitleLabel.Font = new System.Drawing.Font("Times new roman", 10F);  
    this.Controls.Add(jobTitleLabel);  
  
    jobTitleTextBox = new TextBox();  
    jobTitleTextBox.Name = "JobTitleTextBox";  
    jobTitleTextBox.Location = new System.Drawing.Point(320, 120);  
    jobTitleTextBox.Size = new System.Drawing.Size(200, 30);  
    this.Controls.Add(jobTitleTextBox);  
  
    // Date  
    Label dateLabel = new Label();  
    dateLabel.Text = "Date:";  
    dateLabel.Location = new System.Drawing.Point(200, 160);  
    dateLabel.Font = new System.Drawing.Font("Times new roman", 10F);  
    this.Controls.Add(dateLabel);  
  
    dateTextBox = new TextBox();  
    dateTextBox.Name = "DateTextBox";  
    dateTextBox.Location = new System.Drawing.Point(320, 160);  
    dateTextBox.Size = new System.Drawing.Size(200, 30);  
    this.Controls.Add(dateTextBox);  
  
    // Employment Type  
    Label employmentTypeLabel = new Label();  
    employmentTypeLabel.Text = "Employment Type:";  
    employmentTypeLabel.Location = new System.Drawing.Point(200, 200);  
    employmentTypeLabel.Font = new System.Drawing.Font("Times new roman", 10F);  
    this.Controls.Add(employmentTypeLabel);
```

```
employmentTypeTextBox = new TextBox();

employmentTypeTextBox.Name = "EmploymentTypeTextBox";
employmentTypeTextBox.Location = new System.Drawing.Point(320, 200);
employmentTypeTextBox.Size = new System.Drawing.Size(200, 30);
this.Controls.Add(employmentTypeTextBox);

// Hiring Status

Label hiringStatusLabel = new Label();
hiringStatusLabel.Text = "Hiring Status:";
hiringStatusLabel.Location = new System.Drawing.Point(200, 240);
hiringStatusLabel.Font = new System.Drawing.Font("Times new roman", 10F);
this.Controls.Add(hiringStatusLabel);
hiringStatusTextBox = new TextBox();
hiringStatusTextBox.Name = "HiringStatusTextBox";
hiringStatusTextBox.Location = new System.Drawing.Point(320, 240);
hiringStatusTextBox.Size = new System.Drawing.Size(200, 30);
this.Controls.Add(hiringStatusTextBox);

// Insert Button

insertButton = new Button();
insertButton.Text = "Insert";
insertButton.Location = new System.Drawing.Point(100, 300);
insertButton.BackColor = System.Drawing.Color.SeaGreen;
insertButton.ForeColor = System.Drawing.Color.White;
insertButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold);
insertButton.Size = new System.Drawing.Size(100, 40);
insertButton.Click += new EventHandler(this.InsertButton_Click);
this.Controls.Add(insertButton);
```

```
updateButton = new Button();
updateButton.Text = "Update";
updateButton.Location = new System.Drawing.Point(250, 300);
updateButton.BackColor = System.Drawing.Color.LightSeaGreen;
updateButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold);
updateButton.ForeColor = System.Drawing.Color.White;
updateButton.Size = new System.Drawing.Size(100, 40);
updateButton.Click += new EventHandler(this.UpdateButton_Click);
this.Controls.Add(updateButton);

// Delete Button
deleteButton = new Button();
deleteButton.Text = "Delete";
deleteButton.Location = new System.Drawing.Point(400, 300);
deleteButton.BackColor = System.Drawing.Color.IndianRed;
deleteButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold);
deleteButton.ForeColor = System.Drawing.Color.White;
deleteButton.Size = new System.Drawing.Size(100, 40);
deleteButton.Click += new EventHandler(this.DeleteButton_Click);
this.Controls.Add(deleteButton);

// Search Button
searchButton = new Button();
searchButton.Text = "Search";
searchButton.Location = new System.Drawing.Point(550, 300);
searchButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold);
searchButton.BackColor = System.Drawing.Color.SteelBlue;
searchButton.ForeColor = System.Drawing.Color.White;
```

```

searchButton.Size = new System.Drawing.Size(100, 40);

searchButton.Click += new EventHandler(this.SearchButton_Click);

this.Controls.Add(searchButton);

this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(800, 450);


this.Name = "Likedin Dataset";

this.Text = "Form1";

this.ResumeLayout(false);
}

private void InsertButton_Click(object sender, EventArgs e)
{
    // SQL query to insert data into the Job table

    string query = "INSERT INTO Job (Job_ID, Job_title, Date, Employment_Type,
Hiring_Status) " +

        "VALUES (@JobID, @JobTitle, @Date, @EmploymentType,
@HiringStatus)";

    // Connection string to connect to your SQL Server database

    string connectionString = @"Data Source=DESKTOP-70DHDVV;Initial
Catalog=""Linkedin job"";Integrated Security=True";

    try
    {
        using (SqlConnection connection = new SqlConnection(connectionString))
        {
            SqlCommand command = new SqlCommand(query, connection);

            command.Parameters.AddWithValue("@JobID", jobIdTextBox.Text);

            command.Parameters.AddWithValue("@JobTitle", jobTitleTextBox.Text);

            command.Parameters.AddWithValue("@Date", dateTextBox.Text);

            command.Parameters.AddWithValue("@EmploymentType",
employmentTypeTextBox.Text);

```

```

command.Parameters.AddWithValue("@HiringStatus", hiringStatusTextBox.Text);

        connection.Open();

        int rowsAffected = command.ExecuteNonQuery();

        connection.Close();

        MessageBox.Show($"Inserted {rowsAffected} rows into Job table.", "Success",
        MessageBoxButtons.OK, MessageBoxIcon.Information);

    }}

    catch (Exception ex)

    {
        MessageBox.Show($"An error occurred: {ex.Message}", "Error",
        MessageBoxButtons.OK, MessageBoxIcon.Error);

    }}

    private void UpdateButton_Click(object sender, EventArgs e)

    {
        string checkQuery = "SELECT COUNT(*) FROM Job WHERE Job_ID =
        @JobID";

        string updateQuery = "UPDATE Job SET Job_title = @JobTitle, Date = @Date,
        Employment_Type = @EmploymentType, Hiring_Status = @HiringStatus WHERE Job_ID =
        @JobID";

        string connectionString = @"Data Source=DESKTOP-70DHDVV;Initial Catalog=""Linkedin
        job"";Integrated Security=True";

        try {

            using (SqlConnection connection = new SqlConnection(connectionString))

            {
                connection.Open();

                MessageBox.Show("Connection Opened", "Debug", MessageBoxButtons.OK,
                MessageBoxIcon.Information);

                using (SqlCommand checkCommand = new SqlCommand(checkQuery,
                connection))

                {
                    checkCommand.Parameters.AddWithValue("@JobID", jobIdTextBox.Text);

                    MessageBox.Show("JobID parameter added", "Debug",
                    MessageBoxButtons.OK, MessageBoxIcon.Information);

                    int count = (int)checkCommand.ExecuteScalar();

                    MessageBox.Show($"Job_ID exists: {count > 0}", "Debug",

```



```

MessageBoxButtons.OK, MessageBoxIcon.Information);

        if (count == 0)
        {
            MessageBox.Show("Job_ID not found. Please enter a valid Job_ID.", "Job_ID Not Found", MessageBoxButtons.OK, MessageBoxIcon.Warning);

            return;
        }
    }

    using (SqlCommand command = new SqlCommand(updateQuery, connection))
    {
        command.Parameters.AddWithValue("@JobID", jobIdTextBox.Text);

        command.Parameters.AddWithValue("@JobTitle", jobTitleTextBox.Text);

        MessageBox.Show("JobTitle parameter added", "Debug", MessageBoxButtons.OK, MessageBoxIcon.Information);

        if (DateTime.TryParse(dateTextBox.Text, out DateTime dateValue))
        {
            command.Parameters.AddWithValue("@Date", dateValue);

            MessageBox.Show("Date parameter added", "Debug", MessageBoxButtons.OK, MessageBoxIcon.Information);
        }
        else
        {
            MessageBox.Show("Please enter a valid date.", "Invalid Date", MessageBoxButtons.OK, MessageBoxIcon.Warning);

            return; }

        command.Parameters.AddWithValue("@EmploymentType", employmentTypeTextBox.Text);

        command.Parameters.AddWithValue("@HiringStatus", hiringStatusTextBox.Text);

        MessageBox.Show("Other parameters added", "Debug", MessageBoxButtons.OK, MessageBoxIcon.Information);

        // Execute the UPDATE query

        int rowsAffected = command.ExecuteNonQuery();

        MessageBox.Show($"Rows affected: {rowsAffected}", "Debug", MessageBoxButtons.OK, MessageBoxIcon.Information);
    }
}

```

```

        MessageBox.Show($"Updated {rowsAffected} row(s) in Job table.", "Success",
        MessageBoxButtons.OK, MessageBoxIcon.Information);

        MessageBox.Show("No rows were updated. Please check the provided information.",
        "Update Failed", MessageBoxButtons.OK, MessageBoxIcon.Warning);

    }

    connection.Close();

    MessageBox.Show("Connection Closed", "Debug", MessageBoxButtons.OK,
    MessageBoxIcon.Information);

    }}

    catch (SqlException sqlEx)

    {

        MessageBox.Show($"SQL error occurred: {sqlEx.Message}", "SQL Error",
        MessageBoxButtons.OK, MessageBoxIcon.Error);

    }

    catch (Exception ex)

    {
        MessageBox.Show($"An error occurred: {ex.Message}", "Error",
        MessageBoxButtons.OK, MessageBoxIcon.Error);

    } }

private void DeleteButton_Click(object sender, EventArgs e)

{

    string query = "DELETE FROM Job WHERE Job_ID = @JobID AND Job_title = @JobTitle
    AND Date = @Date AND Employment_Type = @EmploymentType AND Hiring_Status =
    @HiringStatus";

    string connectionString = @"Data Source=DESKTOP-70DHDVV;Initial Catalog=""Linkedin
    job"";Integrated Security=True";

    using (SqlConnection connection = new SqlConnection(connectionString))

    {

        SqlCommand command = new SqlCommand(query, connection);

        if (string.IsNullOrEmpty(jobIdTextBox.Text))

        {
            MessageBox.Show("Please enter a Job_ID.", "Input Error", MessageBoxButtons.OK,
            MessageBoxIcon.Warning);

            return;

        }

    }

```

```

command.Parameters.AddWithValue("@JobID", jobIdTextBox.Text);

    command.Parameters.AddWithValue("@JobTitle", jobTitleTextBox.Text);

    if (DateTime.TryParse(dateTextBox.Text, out DateTime dateValue))
    {
        command.Parameters.AddWithValue("@Date", dateValue);
    }
    else
    {
        { MessageBox.Show("Please enter a valid date.", "Invalid Date", MessageBoxButtons.OK,
        MessageBoxIcon.Warning);
        return;
        }
    }
command.Parameters.AddWithValue("@EmploymentType", employmentTypeTextBox.Text);
command.Parameters.AddWithValue("@HiringStatus", hiringStatusTextBox.Text);
try
{
    connection.Open();
    int rowsAffected = command.ExecuteNonQuery();
    connection.Close();
    if (rowsAffected > 0)
    {
        MessageBox.Show($"{rowsAffected} row(s) deleted from the Job table.",
        "Success", MessageBoxButtons.OK, MessageBoxIcon.Information);
    } else
    {
        MessageBox.Show("No rows were deleted. Please check the provided information.",
        "Deletion Failed", MessageBoxButtons.OK, MessageBoxIcon.Warning);
    }
}
catch (SqlException sqlEx)
{
    MessageBox.Show($"SQL error occurred: {sqlEx.Message}", "SQL Error",
    MessageBoxButtons.OK, MessageBoxIcon.Error);
}

```

```

catch (Exception ex)
{
    MessageBox.Show($"An error occurred: {ex.Message}", "Error", MessageBoxButtons.OK,
    MessageBoxIcon.Error);
}}}

private void SearchButton_Click(object sender, EventArgs e)
{
    string query = "SELECT * FROM Job WHERE Job_ID = @JobID";

    string connectionString = @"Data Source=DESKTOP-70DHDVV;Initial Catalog=""Linkedin
job"";Integrated Security=True";

    using (SqlConnection connection = new SqlConnection(connectionString))
    {
        SqlCommand command = new SqlCommand(query, connection);
        command.Parameters.AddWithValue("@JobID", jobIdTextBox.Text);
        connection.Open();
        SqlDataReader reader = command.ExecuteReader();
        if (reader.HasRows)
        {
            while (reader.Read())
            {
                jobTitleTextBox.Text = reader["Job_title"].ToString();
                dateTextBox.Text = reader["Date"].ToString();
                employmentTypeTextBox.Text = reader["Employment_Type"].ToString();
                hiringStatusTextBox.Text = reader["Hiring_Status"].ToString()
            }
        }
        else
        {
            MessageBox.Show("Job ID not found.");
        }
        reader.Close();
        connection.Close();
    }
}

```

```
private void titleLabel_Click(object sender, EventArgs e)
{
}

private void jobTitleLabel_Click(object sender, EventArgs e)
{
}

private void dateLabel_Click(object sender, EventArgs e)
{
}

private void Form1_Load(object sender, EventArgs e)
{
}

private void titleLabel_Click_1(object sender, EventArgs e)
{
}

private void jobIdLabel_Click(object sender, EventArgs e)
{
    // Handle the click event here
}

private void employmentTypeLabel_Click(object sender, EventArgs e)
{

}

private void hiringStatusLabel_Click(object sender, EventArgs e)
{
}
}
```

## FORM3.DESIGNER.CS

```
using DATABASE_FINAL_PROJECT;
namespace DATABASE_FINAL_PROJECT
{
    partial class Form4
    {
        private System.ComponentModel.IContainer components = null;

        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        private void InitializeComponent()
        {
            this.titleLabel = new System.Windows.Forms.Label();
            this.jobIdTextBox = new System.Windows.Forms.TextBox();
            this.jobIdLabel = new System.Windows.Forms.Label();
            this.jobTitleLabel = new System.Windows.Forms.Label();
            this.jobTitleTextBox = new System.Windows.Forms.TextBox();
            this.dateLabel = new System.Windows.Forms.Label();
            this.dateTextBox = new System.Windows.Forms.TextBox();
            this.employmentTypeLabel = new System.Windows.Forms.Label();
            this.employmentTypeTextBox = new System.Windows.Forms.TextBox();
            this.hiringStatusLabel = new System.Windows.Forms.Label();
            this.hiringStatusTextBox = new System.Windows.Forms.TextBox();
            this.insertButton = new System.Windows.Forms.Button();
        }
    }
}
```



```
this.deleteButton = new System.Windows.Forms.Button();

    this.searchButton = new System.Windows.Forms.Button();

    this.SuspendLayout();

    this.titleLabel.AutoSize = true;

    this.titleLabel.Font = new System.Drawing.Font("Times New Roman", 24F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

    this.titleLabel.ForeColor = System.Drawing.Color.Black;

    this.titleLabel.Location = new System.Drawing.Point(326, 19);

    this.titleLabel.Name = "titleLabel";

    this.titleLabel.Size = new System.Drawing.Size(245, 36);

    this.titleLabel.TabIndex = 0;

    this.titleLabel.Text = "LINKEDIN JOB";

    this.titleLabel.Click += new System.EventHandler(this.titleLabel_Click_1);

    this.jobIdLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

    this.jobIdLabel.Location = new System.Drawing.Point(278, 92);

    this.jobIdLabel.Name = "jobIdLabel";

    this.jobIdLabel.Size = new System.Drawing.Size(58, 23);

    this.jobIdLabel.TabIndex = 1;

    this.jobIdLabel.Text = "Job ID:";

    this.jobIdLabel.Click += new System.EventHandler(this.jobIdLabel_Click);

    this.jobIdTextBox.Location = new System.Drawing.Point(417, 92);

    this.jobIdTextBox.Name = "jobIdTextBox";

    this.jobIdTextBox.Size = new System.Drawing.Size(200, 20);

    this.jobIdTextBox.TabIndex = 2;

    this.jobTitleLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

    this.jobTitleLabel.Location = new System.Drawing.Point(278, 135);

    this.jobTitleLabel.Name = "jobTitleLabel";

    this.jobTitleLabel.Size = new System.Drawing.Size(100, 23);
```

```
this.jobTitleLabel.TabIndex = 3;

    this.jobTitleLabel.Text = "Job Title:";

    this.jobTitleLabel.Click += new System.EventHandler(this.jobTitleLabel_Click);

    this.jobTitleTextBox.Location = new System.Drawing.Point(417, 135);

    this.jobTitleTextBox.Name = "jobTitleTextBox";

    this.jobTitleTextBox.Size = new System.Drawing.Size(200, 20);

    this.jobTitleTextBox.TabIndex = 4;

    this.dateLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

    this.dateLabel.Location = new System.Drawing.Point(278, 173);

    this.dateLabel.Name = "dateLabel";

    this.dateLabel.Size = new System.Drawing.Size(100, 23);

    this.dateLabel.TabIndex = 5;

    this.dateLabel.Text = "Date:";

    this.dateLabel.Click += new System.EventHandler(this.dateLabel_Click);

    this.dateTextBox.Location = new System.Drawing.Point(417, 174);

    this.dateTextBox.Name = "dateTextBox";

    this.dateTextBox.Size = new System.Drawing.Size(200, 20);

    this.dateTextBox.TabIndex = 6;

    this.employmentTypeLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

    this.employmentTypeLabel.Location = new System.Drawing.Point(278, 211);

    this.employmentTypeLabel.Name = "employmentTypeLabel";

    this.employmentTypeLabel.Size = new System.Drawing.Size(100, 23);

    this.employmentTypeLabel.TabIndex = 7;

    this.employmentTypeLabel.Text = "Employment Type:";

    this.employmentTypeLabel.Click += new
System.EventHandler(this.employmentTypeLabel_Click);

    this.employmentTypeTextBox.Location = new System.Drawing.Point(417, 214);

    this.employmentTypeTextBox.Name = "employmentTypeTextBox";
```

```
this.employmentTypeTextBox.Size = new System.Drawing.Size(200, 20);

    this.employmentTypeTextBox.TabIndex = 8;

    this.hiringStatusLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)0));

    this.hiringStatusLabel.Location = new System.Drawing.Point(278, 249);

    this.hiringStatusLabel.Name = "hiringStatusLabel";

    this.hiringStatusLabel.Size = new System.Drawing.Size(100, 30);

    this.hiringStatusLabel.TabIndex = 9;

    this.hiringStatusLabel.Text = "Hiring Status:";

    this.hiringStatusLabel.Click += new System.EventHandler(this.hiringStatusLabel_Click);

    this.hiringStatusTextBox.Location = new System.Drawing.Point(417, 250);

    this.hiringStatusTextBox.Name = "hiringStatusTextBox";

    this.hiringStatusTextBox.Size = new System.Drawing.Size(200, 20);

    this.hiringStatusTextBox.TabIndex = 10;

    this.insertButton.BackColor = System.Drawing.Color.SeaGreen;

    this.insertButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)0));

    this.insertButton.ForeColor = System.Drawing.Color.White;

    this.insertButton.Location = new System.Drawing.Point(128, 400);

    this.insertButton.Name = "insertButton";

    this.insertButton.Size = new System.Drawing.Size(100, 40);

    this.insertButton.TabIndex = 11;

    this.insertButton.Text = "Insert";

    this.insertButton.UseVisualStyleBackColor = false;

    this.insertButton.Click += new System.EventHandler(this.InsertButton_Click);

    this.updateButton.BackColor = System.Drawing.Color.LightSeaGreen;

    this.updateButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)0));

    this.updateButton.ForeColor = System.Drawing.Color.White;
```

```
this.updateButton.Location = new System.Drawing.Point(303, 400);

    this.updateButton.Name = "updateButton";

    this.updateButton.Size = new System.Drawing.Size(100, 40);

    this.updateButton.TabIndex = 12;

    this.updateButton.Text = "Update";

    this.updateButton.UseVisualStyleBackColor = false;

    this.updateButton.Click += new System.EventHandler(this.UpdateButton_Click);

    this.deleteButton.BackColor = System.Drawing.Color.IndianRed;

    this.deleteButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)0));

    this.deleteButton.ForeColor = System.Drawing.Color.White;

    this.deleteButton.Location = new System.Drawing.Point(471, 400);

    this.deleteButton.Name = "deleteButton";

    this.deleteButton.Size = new System.Drawing.Size(100, 40);

    this.deleteButton.TabIndex = 13;

    this.deleteButton.Text = "Delete";

    this.deleteButton.UseVisualStyleBackColor = false;

    this.deleteButton.Click += new System.EventHandler(this.DeleteButton_Click);

    this.searchButton.BackColor = System.Drawing.Color.SteelBlue;

    this.searchButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)0));

    this.searchButton.ForeColor = System.Drawing.Color.White;

    this.searchButton.Location = new System.Drawing.Point(653, 400);

    this.searchButton.Name = "searchButton";

    this.searchButton.Size = new System.Drawing.Size(100, 40);

this.searchButton.TabIndex = 14;

    this.searchButton.Text = "Search";

    this.searchButton.UseVisualStyleBackColor = false;

    this.searchButton.Click += new System.EventHandler(this.SearchButton_Click);
```

```
this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

    this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

    this.BackColor = System.Drawing.SystemColors.InactiveCaption;

    this.BackgroundImage =
global::DATABASE_FINAL_PROJECT.Properties.Resources.pixabay_linkedin_1660283998;

    this.BackgroundImageLayout = System.Windows.Forms.ImageLayout.Stretch;

    this.ClientSize = new System.Drawing.Size(905, 521);

    this.Controls.Add(this.titleLabel);

    this.Controls.Add(this.jobIdLabel);

    this.Controls.Add(this.jobIdTextBox);

    this.Controls.Add(this.jobTitleLabel);

    this.Controls.Add(this.jobTitleTextBox);

    this.Controls.Add(this.dateLabel);

    this.Controls.Add(this.dateTextBox);

    this.Controls.Add(this.employmentTypeLabel);

    this.Controls.Add(this.employmentTypeTextBox);

    this.Controls.Add(this.hiringStatusLabel);

    this.Controls.Add(this.hiringStatusTextBox);

    this.Controls.Add(this.insertButton);

    this.Controls.Add(this.updateButton);

    this.Controls.Add(this.deleteButton);

    this.Controls.Add(this.searchButton);

    this.Cursor = System.Windows.Forms.Cursors.Hand;

    this.FormBorderStyle = System.Windows.Forms.FormBorderStyle.Fixed3D;

    this.Name = "Form4";

    this.Text = "Form4";

    this.Load += new System.EventHandler(this.Form1_Load);

    this.ResumeLayout(false);

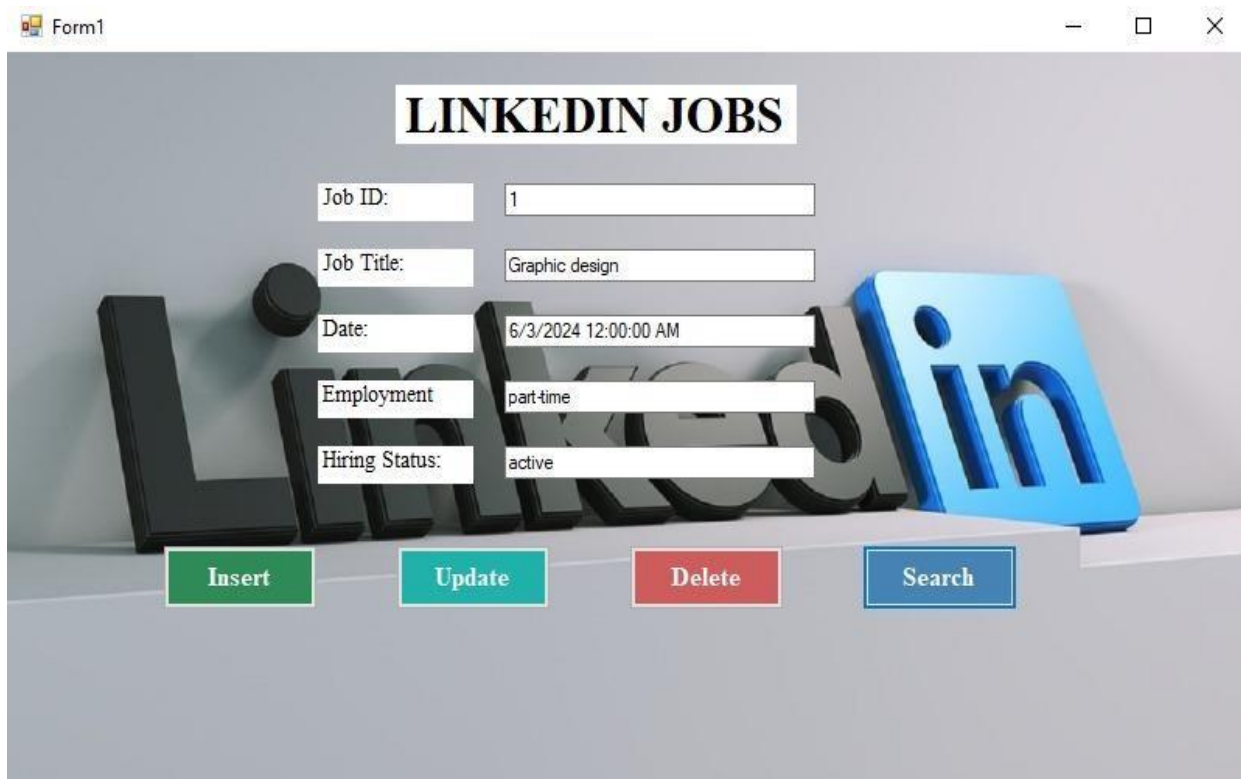
    this.PerformLayout(); }
```

```
#endregion
```

```
private System.Windows.Forms.Label titleLabel;  
private System.Windows.Forms.Label jobIdLabel;  
private System.Windows.Forms.Label jobTitleLabel;  
private System.Windows.Forms.Label dateLabel;  
private System.Windows.Forms.Label employmentTypeLabel;  
private System.Windows.Forms.Label hiringStatusLabel;  
private LinkedIn_jobDataSet linkedin_jobDataSet1;  
}  
}
```

## OUTPUT:

### SEARCH



The screenshot displays a Windows application window titled "Form1". The main content area features a 3D-rendered LinkedIn logo in the background. Overlaid on this is a form titled "LINKEDIN JOBS". The form consists of five labeled input fields arranged vertically: "Job ID:" with the value "1", "Job Title:" with "Graphic design", "Date:" with "6/3/2024 12:00:00 AM", "Employment" with "part-time", and "Hiring Status:" with "active". Below these fields, there are four rectangular buttons: a green "Insert" button, a teal "Update" button, a red "Delete" button, and a blue "Search" button. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

## INSERT

Form1

### LINKEDIN JOBS

Job ID: 1008

Job Title: Programmer

Date: 6/3/2024 12:00:00 AM

Employment: Full-time

Hiring Status: Active

Success

Inserted 1 rows into Job table.

OK

Insert Update Delete Search

## DELETE

Form1

### LINKEDIN JOBS

Job ID: 1006

Job Title: Graphic design

Date: 6/3/2024 12:00:00 AM

Employment: part-time

Hiring Status: active

Success

1 row(s) deleted from the Job table.

OK

Insert Update Delete Search

## UPDATE

The screenshot shows a Windows application window titled "Form1". The main content area has a header "LINKEDIN JOBS" in a white box. Below the header are five input fields with labels: "Job ID:" (value: 1), "Job Title:" (value: Programmer), "Date:" (value: 6/3/2024 12:00:00 AM), "Employment:" (value: part-time), and "Hiring Status:" (value: active). At the bottom of the form are four buttons: "Insert" (green), "Update" (teal), "Delete" (red), and "Search" (blue). A "Debug" window is open on the right side, displaying an information icon, the text "Rows affected: 1", and an "OK" button.

## FORM 4

### CODE:

#### **USERSEARCH.CS**

```
using System;  
using System.Collections.Generic;  
using System.ComponentModel;  
using System.Data;  
using System.Data.SqlClient;  
using System.Drawing;  
using System.Linq;  
using System.Text;  
using System.Threading.Tasks;  
using System.Windows.Forms;
```



```

namespace DATABASE_FINAL_PROJECT
{
    public partial class Form3 : Form
    {
        private TextBox jobIdTextBox;
        private TextBox jobTitleTextBox;
        private TextBox dateTextBox;
        private TextBox employmentTypeTextBox;
        private TextBox hiringStatusTextBox;
        private Button insertButton;
        private Button updateButton;
        private Button deleteButton;
        private Button searchButton;
        public Form3()
        {
            Initialize__Component();
        }
        private void Initialize__Component()
        {
            this.components = new System.ComponentModel.Container();
            this.SuspendLayout();
            this.Text = "Job Management";
            this.Size = new System.Drawing.Size(800, 600);
            this.BackColor = System.Drawing.Color.White;
            this.BackgroundImage = System.Drawing.Image.FromFile("C:\\Users\\HP\\Desktop\\pixabay-
linkedin-1660283998.jpg");
            this.BackgroundImageLayout = System.Windows.Forms.ImageLayout.Stretch;
            Label titleLabel = new Label();
            titleLabel.Text = "LINKEDIN JOBS";
            titleLabel.Font = new System.Drawing.Font("Times new roman", 23F,
System.Drawing.FontStyle.Bold);
            titleLabel.ForeColor = System.Drawing.Color.Black;

```

```
titleLabel.ForeColor = System.Drawing.Color.Black;

titleLabel.AutoSize = true;

titleLabel.Location = new System.Drawing.Point(250, 20);

this.Controls.Add(titleLabel);

Label jobIdLabel = new Label();

jobIdLabel.Text = "Job ID:";

jobIdLabel.Location = new System.Drawing.Point(200, 80);

jobIdLabel.Font = new System.Drawing.Font("Times new roman", 10F);

this.Controls.Add(jobIdLabel);

jobIdTextBox = new TextBox();

jobIdTextBox.Name = "JobIDTextBox";

jobIdTextBox.Location = new System.Drawing.Point(320, 80);

jobIdTextBox.Size = new System.Drawing.Size(200, 30);

this.Controls.Add(jobIdTextBox);

Label jobTitleLabel = new Label();

jobTitleLabel.Text = "Job Title:";

jobTitleLabel.Location = new System.Drawing.Point(200, 120);

jobTitleLabel.Font = new System.Drawing.Font("Times new roman", 10F);

this.Controls.Add(jobTitleLabel);

jobTitleTextBox = new TextBox();

jobTitleTextBox.Name = "JobTitleTextBox";

jobTitleTextBox.Location = new System.Drawing.Point(320, 120);

jobTitleTextBox.Size = new System.Drawing.Size(200, 30);

this.Controls.Add(jobTitleTextBox);

Label dateLabel = new Label();

dateLabel.Text = "Date:";

dateLabel.Location = new System.Drawing.Point(200, 160);

dateLabel.Font = new System.Drawing.Font("Times new roman", 10F);
```

```
this.Controls.Add(dateLabel);

    dateTextBox = new TextBox();
    dateTextBox.Name = "DateTextBox";
    dateTextBox.Location = new System.Drawing.Point(320, 160);
    dateTextBox.Size = new System.Drawing.Size(200, 30);
    this.Controls.Add(dateTextBox);

    Label employmentTypeLabel = new Label();
    employmentTypeLabel.Text = "Employment Type:";
    employmentTypeLabel.Location = new System.Drawing.Point(200, 200);
    employmentTypeLabel.Font = new System.Drawing.Font("Times new roman", 10F);
    this.Controls.Add(employmentTypeLabel);

    employmentTypeTextBox = new TextBox();
    employmentTypeTextBox.Name = "EmploymentTypeTextBox";
    employmentTypeTextBox.Location = new System.Drawing.Point(320, 200);
    employmentTypeTextBox.Size = new System.Drawing.Size(200, 30);
    this.Controls.Add(employmentTypeTextBox);

    Label hiringStatusLabel = new Label();
    hiringStatusLabel.Text = "Hiring Status:";
    hiringStatusLabel.Location = new System.Drawing.Point(200, 240);
    hiringStatusLabel.Font = new System.Drawing.Font("Times new roman", 10F);
    this.Controls.Add(hiringStatusLabel);

    hiringStatusTextBox = new TextBox();
    hiringStatusTextBox.Name = "HiringStatusTextBox";
    hiringStatusTextBox.Location = new System.Drawing.Point(320, 240);
    hiringStatusTextBox.Size = new System.Drawing.Size(200, 30);
    this.Controls.Add(hiringStatusTextBox);

    this.Controls.Add(deleteButton);
    searchButton = new Button();
    searchButton.Text = "Search";
```

```

searchButton.Location = new System.Drawing.Point(550, 300);

        searchButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold);

        searchButton.BackColor = System.Drawing.Color.SteelBlue;

        searchButton.ForeColor = System.Drawing.Color.White;

        searchButton.Size = new System.Drawing.Size(100, 40);

        searchButton.Click += new EventHandler(this.SearchButton_Click);

        this.Controls.Add(searchButton);

        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

        this.ClientSize = new System.Drawing.Size(800, 450);

        this.Name = "Likedin Dataset";

        this.Text = "Form1";

        this.ResumeLayout(false);
    }

    private void SearchButton_Click(object sender, EventArgs e)
    {
        string query = "SELECT * FROM Job WHERE Job_ID = @JobID";

        string connectionString = @"Data Source=DESKTOP-70DHDVV;Initial Catalog=""Linkedin
job"";Integrated Security=True";

        using (SqlConnection connection = new SqlConnection(connectionString))
        {
            SqlCommand command = new SqlCommand(query, connection);

            command.Parameters.AddWithValue("@JobID", jobIdTextBox.Text);
connection.Open();

            SqlDataReader reader = command.ExecuteReader();

            if (reader.HasRows)
            {
                while (reader.Read())

```

```

jobTitleTextBox.Text = reader["Job_title"].ToString();

        dateTextBox.Text = reader["Date"].ToString();

        employmentTypeTextBox.Text = reader["Employment_Type"].ToString();

        hiringStatusTextBox.Text = reader["Hiring_Status"].ToString();

    }} else
    {
        MessageBox.Show("Job ID not found.");
    }

    reader.Close();

    connection.Close();

}}

private void titleLabel_Click(object sender, EventArgs e)
{
}

private void jobTitleLabel_Click(object sender, EventArgs e)
{
}

private void dateLabel_Click(object sender, EventArgs e)
{
}

private void Form1_Load(object sender, EventArgs e)
{
}

private void titleLabel_Click_1(object sender, EventArgs e) {}

private void jobIdLabel_Click(object sender, EventArgs e) {}

private void employmentTypeLabel_Click(object sender, EventArgs e) {}

}

}

```

## **USERSEARCH.DESIGNER.CS**

```
using DATABASE_FINAL_PROJECT;
namespace DATABASE_FINAL_PROJECT
{
    partial class Form3
    {
        private System.ComponentModel.IContainer components = null;
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        private void InitializeComponent()
        {
            System.ComponentModel.ComponentResourceManager resources = new
            System.ComponentModel.ComponentResourceManager(typeof(Form3));

            this.titleLabel = new System.Windows.Forms.Label();
            this.jobIdLabel = new System.Windows.Forms.Label();
            this.jobIdTextBox = new System.Windows.Forms.TextBox();
            this.jobTitleLabel = new System.Windows.Forms.Label();
            this.jobTitleTextBox = new System.Windows.Forms.TextBox();
            this.dateLabel = new System.Windows.Forms.Label();
            this.dateTextBox = new System.Windows.Forms.TextBox();
            this.employmentTypeLabel = new System.Windows.Forms.Label();
            this.employmentTypeTextBox = new System.Windows.Forms.TextBox();
            this.hiringStatusLabel = new System.Windows.Forms.Label();
            this.hiringStatusTextBox = new System.Windows.Forms.TextBox();
        }
    }
}
```

```
this.searchButton = new System.Windows.Forms.Button();

    this.SuspendLayout();

    this.titleLabel.AutoSize = true;

    this.titleLabel.Font = new System.Drawing.Font("Times New Roman", 24F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)0));

    this.titleLabel.ForeColor = System.Drawing.Color.Black;

    this.titleLabel.Location = new System.Drawing.Point(274, 20);

    this.titleLabel.Name = "titleLabel";

    this.titleLabel.Size = new System.Drawing.Size(245, 36);

    this.titleLabel.TabIndex = 0;

    this.titleLabel.Text = "LINKEDIN JOB";

    this.titleLabel.Click += new System.EventHandler(this.titleLabel_Click_1);

    this.jobIdLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)0));

    this.jobIdLabel.Location = new System.Drawing.Point(193, 92);

    this.jobIdLabel.Name = "jobIdLabel";

    this.jobIdLabel.Size = new System.Drawing.Size(58, 23);

    this.jobIdLabel.TabIndex = 1;

    this.jobIdLabel.Text = "Job ID:";

    this.jobIdLabel.Click += new System.EventHandler(this.jobIdLabel_Click);

    this.jobIdTextBox.Location = new System.Drawing.Point(338, 95);

    this.jobIdTextBox.Name = "jobIdTextBox";

    this.jobIdTextBox.Size = new System.Drawing.Size(200, 20);

    this.jobIdTextBox.TabIndex = 2;

    this.jobTitleLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)0));

    this.jobTitleLabel.Location = new System.Drawing.Point(193, 132);

    this.jobTitleLabel.Name = "jobTitleLabel";

    this.jobTitleLabel.Size = new System.Drawing.Size(100, 23);

    this.jobTitleLabel.TabIndex = 3;
```

```
this.jobTitleLabel.Text = "Job Title:";

this.jobTitleLabel.Click += new System.EventHandler(this.jobTitleLabel_Click);

this.jobTitleTextBox.Location = new System.Drawing.Point(338, 135);

this.jobTitleTextBox.Name = "jobTitleTextBox";

this.jobTitleTextBox.Size = new System.Drawing.Size(200, 20);

this.jobTitleTextBox.TabIndex = 4;

this.dateLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

this.dateLabel.Location = new System.Drawing.Point(193, 173);

this.dateLabel.Name = "dateLabel";

this.dateLabel.Size = new System.Drawing.Size(100, 23);

this.dateLabel.TabIndex = 5;

this.dateLabel.Text = "Date:";

this.dateLabel.Click += new System.EventHandler(this.dateLabel_Click);

this.dateTextBox.Location = new System.Drawing.Point(338, 176);

this.dateTextBox.Name = "dateTextBox";

this.dateTextBox.Size = new System.Drawing.Size(200, 20);

this.dateTextBox.TabIndex = 6;

this.employmentTypeLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

this.employmentTypeLabel.Location = new System.Drawing.Point(193, 214);

this.employmentTypeLabel.Name = "employmentTypeLabel";

this.employmentTypeLabel.Size = new System.Drawing.Size(100, 23);

this.employmentTypeLabel.TabIndex = 7;

this.employmentTypeLabel.Text = "Employment Type:";

this.employmentTypeLabel.Click += new
System.EventHandler(this.employmentTypeLabel_Click);

this.employmentTypeTextBox.Location = new System.Drawing.Point(338, 217);

this.employmentTypeTextBox.Name = "employmentTypeTextBox";
```



```

this.employmentTypeTextBox.Size = new System.Drawing.Size(200, 20);

    this.employmentTypeTextBox.TabIndex = 8;

    this.hiringStatusLabel.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

    this.hiringStatusLabel.Location = new System.Drawing.Point(193, 261);

    this.hiringStatusLabel.Name = "hiringStatusLabel";

    this.hiringStatusLabel.Size = new System.Drawing.Size(100, 23);

    this.hiringStatusLabel.TabIndex = 9;

    this.hiringStatusLabel.Text = "Hiring Status:";

    this.hiringStatusTextBox.Location = new System.Drawing.Point(338, 264);

    this.hiringStatusTextBox.Name = "hiringStatusTextBox";

    this.hiringStatusTextBox.Size = new System.Drawing.Size(200, 20);

    this.hiringStatusTextBox.TabIndex = 10;

    this.searchButton.BackColor = System.Drawing.Color.SteelBlue;

    this.searchButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

    this.searchButton.ForeColor = System.Drawing.Color.White;

    this.searchButton.Location = new System.Drawing.Point(280, 335);

    this.searchButton.Name = "searchButton";

    this.searchButton.Size = new System.Drawing.Size(169, 40);

    this.searchButton.TabIndex = 14;

    this.searchButton.Text = "Search";

    this.searchButton.UseVisualStyleBackColor = false;

    this.searchButton.Click += new System.EventHandler(this.SearchButton_Click);

    this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

    this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

    this.BackColor = System.Drawing.SystemColors.InactiveCaption;

    this.BackgroundImage =
global::DATABASE_FINAL_PROJECT.Properties.Resources.pixabay_linkedin_1660283998;

```

```
this.BackgroundImageLayout = System.Windows.Forms.ImageLayout.Stretch;

    this.ClientSize = new System.Drawing.Size(800, 522);

    this.Controls.Add(this.titleLabel);

    this.Controls.Add(this.jobIdLabel);

    this.Controls.Add(this.jobIdTextBox);

    this.Controls.Add(this.jobTitleLabel);

    this.Controls.Add(this.jobTitleTextBox);

    this.Controls.Add(this.dateLabel);

    this.Controls.Add(this.dateTextBox);

    this.Controls.Add(this.employmentTypeLabel);

    this.Controls.Add(this.employmentTypeTextBox);

    this.Controls.Add(this.hiringStatusLabel);

    this.Controls.Add(this.hiringStatusTextBox);

    this.Controls.Add(this.searchButton);

    this.Cursor = System.Windows.Forms.Cursors.Hand;

    this.FormBorderStyle = System.Windows.Forms.FormBorderStyle.Fixed3D;

    this.Name = "Form3";

    this.Text = "Form2";

    this.Load += new System.EventHandler(this.Form1_Load);

    this.ResumeLayout(false);

    this.PerformLayout();

}

#endregion

private System.Windows.Forms.Label titleLabel;

private System.Windows.Forms.Label jobIdLabel;

private System.Windows.Forms.Label jobTitleLabel;

private System.Windows.Forms.Label dateLabel;

}}
```

## **OUTPUT:**

Form1

### LINKEDIN JOBS

Job ID: 1

Job Title: Graphic design

Date: 6/3/2024 12:00:00 AM

Employment: part-time

Hiring Status: active

Search

## **FORM 5**

### **CODE:** **COMPANY.CS**

```
using System;  
using System.Collections.Generic;  
using System.ComponentModel;  
using System.Data;  
using System.Data.SqlClient;  
using System.Drawing;  
using System.Linq;  
using System.Text;  
using System.Threading.Tasks;  
using System.Windows.Forms;  
using System.Windows.Forms.VisualStyles;
```

```
namespace Database_new
{
    public partial class Form1 : Form
    {
        private TextBox companyIdTextBox;
        private TextBox companyNameTextBox;
        private TextBox industryTextBox;
        private TextBox locationIdTextBox;
        private Button searchButton;
        private Button JobExperienceButton;

        private Button jobExperienceButton;

        public Form1()
        {
            Initialize_Component();
        }

        private void Initialize_Component()
        {
            this.SuspendLayout();

            this.Text = "Company Management";
            this.Size = new System.Drawing.Size(800, 500);
            this.BackColor = System.Drawing.Color.White;

            this.BackgroundImage = System.Drawing.Image.FromFile("C:\\Users\\HP\\Desktop\\pixabay-
linkedin-1660283998.jpg");
```

```
// Title Label

Label titleLabel = new Label();

titleLabel.Text = "Company Management";

titleLabel.Font = new System.Drawing.Font("Times New Roman", 23F,
System.Drawing.FontStyle.Bold);

titleLabel.ForeColor = System.Drawing.Color.Black;

titleLabel.AutoSize = true;

titleLabel.Location = new System.Drawing.Point(250, 20);

this.Controls.Add(titleLabel);


// Company ID

Label companyIdLabel = new Label();

companyIdLabel.Text = "Company ID:";

companyIdLabel.Location = new System.Drawing.Point(230, 100);

companyIdLabel.Font = new System.Drawing.Font("Times New Roman", 10F);

this.Controls.Add(companyIdLabel);


companyIdTextBox = new TextBox();

companyIdTextBox.Name = "CompanyIDTextBox";

companyIdTextBox.Location = new System.Drawing.Point(380, 100);

companyIdTextBox.Size = new System.Drawing.Size(200, 30);

this.Controls.Add(companyIdTextBox);


// Company Name

Label companyNameLabel = new Label();

companyNameLabel.Text = "Company Name";

companyNameLabel.Location = new System.Drawing.Point(230, 150);

companyNameLabel.Font = new System.Drawing.Font("Times New Roman", 10F);

this.Controls.Add(companyNameLabel);
```

```
companyNameTextBox = new TextBox();
companyNameTextBox.Name = "CompanyNameTextBox";
companyNameTextBox.Location = new System.Drawing.Point(380, 150);
companyNameTextBox.Size = new System.Drawing.Size(200, 30);
this.Controls.Add(companyNameTextBox);
```

```
// Industry
```

```
Label industryLabel = new Label();
industryLabel.Text = "Industry:";
industryLabel.Location = new System.Drawing.Point(230, 200);
industryLabel.Font = new System.Drawing.Font("Times New Roman", 10F);
this.Controls.Add(industryLabel);
```

```
industryTextBox = new TextBox();
industryTextBox.Name = "IndustryTextBox";
industryTextBox.Location = new System.Drawing.Point(380, 200);
industryTextBox.Size = new System.Drawing.Size(200, 30);
this.Controls.Add(industryTextBox);
```

```
// Search Button
```

```
searchButton = new Button();
searchButton.Text = "Search";
searchButton.Location = new System.Drawing.Point(250, 300);
searchButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold);
searchButton.BackColor = System.Drawing.Color.SteelBlue;
searchButton.ForeColor = System.Drawing.Color.White;
searchButton.Size = new System.Drawing.Size(100, 40);
```

```

searchButton.Click += new EventHandler(this.SearchButton_Click);

this.Controls.Add(searchButton);


this.ResumeLayout(false);


// Create and configure the experience button
Button jobExperienceButton = new Button();
jobExperienceButton.Text = "Job Experience";
jobExperienceButton.Location = new System.Drawing.Point(400, 300);
jobExperienceButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold);
jobExperienceButton.BackColor = System.Drawing.Color.SteelBlue;
jobExperienceButton.ForeColor = System.Drawing.Color.White;
jobExperienceButton.Size = new System.Drawing.Size(120, 40); // Adjusted size for better
visibility
jobExperienceButton.Click += new EventHandler(JobExperienceButton_Click);
this.Controls.Add(jobExperienceButton); // Add button to form controls

}

private void JobExperienceButton_Click(object sender, EventArgs e) {

    Form2 form2 = new Form2();
    form2.Show();
    this.Hide();

}

private void SearchButton_Click(object sender, EventArgs e)
{
    string query = "SELECT * FROM Company WHERE Company_ID = @CompanyID";

```

```
string connectionString = @"Data Source=DESKTOP-70DHDVV;Initial Catalog=""Linkedin  
job"";Integrated Security=True";
```

```
try  
{  
    using (SqlConnection connection = new SqlConnection(connectionString))  
    {  
        SqlCommand command = new SqlCommand(query, connection);  
        command.Parameters.AddWithValue("@CompanyID", companyIdTextBox.Text);  
  
        connection.Open();  
  
        SqlDataReader reader = command.ExecuteReader();  
  
        if (reader.Read())  
        {  
            companyIdTextBox.Text = reader["Company_ID"].ToString();  
            companyNameTextBox.Text = reader["Company_name"].ToString();  
            industryTextBox.Text = reader["Industry"].ToString();  
  
        }  
        else  
        {  
            MessageBox.Show("No company found with the specified ID.", "No Results",  
                MessageBoxButtons.OK, MessageBoxIcon.Information);  
        }  
  
        connection.Close();  
    }  
}
```



```

        catch (Exception ex)
        {
            MessageBox.Show($"An error occurred: {ex.Message}", "Error", MessageBoxButtons.OK,
MessageBoxIcon.Error);
        }
    }

```

```

        private void Form1_Load(object sender, EventArgs e)
        {
        }
    }
}

```

### **COMPANY.DESIGNER.CS:**

```

namespace Database_new
{
    partial class Form1
    {
        private System.ComponentModel.IContainer components = null;

        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

```

```
private void InitializeComponent()
{
    this.SuspendLayout();
    this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
    this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
    this.ClientSize = new System.Drawing.Size(800, 450);
    this.Name = "Form1";
    this.Text = "Form1";
    this.Load += new System.EventHandler(this.Form1_Load);
    this.ResumeLayout(false);

}

#endregion
}}
```

## **OUTPUT:**

Company Management

**Company Management**

Company ID: 100

Company Name: M.J. Bale

Industry: Government Administration

Search Job Experience

## **FORM 6**

### **CODE:**

### **JOBEXPERIENCE.CS:**

```
using System;
using System.Data.SqlClient;
using System.Drawing;
using System.Windows.Forms;

namespace Database_new
{
    public partial class Form2 : Form
    {
        private TextBox jobIdTextBox;
        private TextBox degreeTextBox;
        private TextBox skillsTextBox;
        private TextBox yearsOfExperienceTextBox;
        private TextBox salaryTextBox;
        private Button searchButton;

        public Form2()
        {
            Initialize_Component();
        }

        private void Initialize_Component()
        {
            this.SuspendLayout();

            this.Text = "Experience Management";
            this.Size = new System.Drawing.Size(800, 500);
            this.BackColor = System.Drawing.Color.White;
            this.BackgroundImage = System.Drawing.Image.FromFile("C:\\Users\\HP\\Desktop\\pixabay-
            linkedin-1660283998.jpg");

            // Title Label
            Label titleLabel = new Label();
            titleLabel.Text = "Experience Management";
            titleLabel.Font = new System.Drawing.Font("Times New Roman", 23F,
            System.Drawing.FontStyle.Bold);
            titleLabel.ForeColor = System.Drawing.Color.Black;
            titleLabel.AutoSize = true;
            titleLabel.Location = new System.Drawing.Point(250, 20);
            this.Controls.Add(titleLabel);
```

```
// Job ID
Label jobIdLabel = new Label();
jobIdLabel.Text = "Job ID:";
jobIdLabel.Location = new System.Drawing.Point(230, 100);
jobIdLabel.Font = new System.Drawing.Font("Times New Roman", 10F);
this.Controls.Add(jobIdLabel);

jobIdTextBox = new TextBox();
jobIdTextBox.Name = "JobIDTextBox";
jobIdTextBox.Location = new System.Drawing.Point(380, 100);
jobIdTextBox.Size = new System.Drawing.Size(200, 30);
this.Controls.Add(jobIdTextBox);

// Degree
Label degreeLabel = new Label();
degreeLabel.Text = "Degree:";
degreeLabel.Location = new System.Drawing.Point(230, 150);
degreeLabel.Font = new System.Drawing.Font("Times New Roman", 10F);
this.Controls.Add(degreeLabel);

degreeTextBox = new TextBox();
degreeTextBox.Name = "DegreeTextBox";
degreeTextBox.Location = new System.Drawing.Point(380, 150);
degreeTextBox.Size = new System.Drawing.Size(200, 30);
this.Controls.Add(degreeTextBox);

// Skills
Label skillsLabel = new Label();
skillsLabel.Text = "Skills:";
skillsLabel.Location = new System.Drawing.Point(230, 200);
skillsLabel.Font = new System.Drawing.Font("Times New Roman", 10F);
this.Controls.Add(skillsLabel);

skillsTextBox = new TextBox();
skillsTextBox.Name = "SkillsTextBox";
skillsTextBox.Location = new System.Drawing.Point(380, 200);
skillsTextBox.Size = new System.Drawing.Size(200, 30);
this.Controls.Add(skillsTextBox);

// Years of Experience
Label yearsOfExperienceLabel = new Label();
yearsOfExperienceLabel.Text = "Years of Experience:";
yearsOfExperienceLabel.Location = new System.Drawing.Point(230, 250);
yearsOfExperienceLabel.Font = new System.Drawing.Font("Times New Roman", 10F);
this.Controls.Add(yearsOfExperienceLabel);
```

```

yearsOfExperienceTextBox = new TextBox();
yearsOfExperienceTextBox.Name = "YearsOfExperienceTextBox";
yearsOfExperienceTextBox.Location = new System.Drawing.Point(380, 250);
yearsOfExperienceTextBox.Size = new System.Drawing.Size(200, 30);
this.Controls.Add(yearsOfExperienceTextBox);

// Salary
Label salaryLabel = new Label();
salaryLabel.Text = "Salary:";
salaryLabel.Location = new System.Drawing.Point(230, 300);
salaryLabel.Font = new System.Drawing.Font("Times New Roman", 10F);
this.Controls.Add(salaryLabel);

salaryTextBox = new TextBox();
salaryTextBox.Name = "SalaryTextBox";
salaryTextBox.Location = new System.Drawing.Point(380, 300);
salaryTextBox.Size = new System.Drawing.Size(200, 30);
this.Controls.Add(salaryTextBox);

// Search Button
searchButton = new Button();
searchButton.Text = "Search";
searchButton.Location = new System.Drawing.Point(460, 350);
searchButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold);
searchButton.BackColor = System.Drawing.Color.SteelBlue;
searchButton.ForeColor = System.Drawing.Color.White;
searchButton.Size = new System.Drawing.Size(100, 40);
searchButton.Click += new EventHandler(this.SearchButton_Click);
this.Controls.Add(searchButton);

this.ResumeLayout(false);
}

private void SearchButton_Click(object sender, EventArgs e)
{
    string query = "SELECT * FROM Experience WHERE Job_ID = @JobID";

    string connectionString = @"Data Source=DESKTOP-70DHDVV;Initial Catalog=""Linkedin
job"";Integrated Security=True";

    try
    {
        using (SqlConnection connection = new SqlConnection(connectionString))
        {
            SqlCommand command = new SqlCommand(query, connection);
            command.Parameters.AddWithValue("@JobID", jobIdTextBox.Text);

```

```

        connection.Open();

        SqlDataReader reader = command.ExecuteReader();

        if (reader.Read())
        {
            jobIdTextBox.Text = reader["Job_ID"].ToString();
            degreeTextBox.Text = reader["Degree"].ToString();
            skillsTextBox.Text = reader["Skills"].ToString();
            yearsOfExperienceTextBox.Text = reader["Year_of_Experience"].ToString();
            salaryTextBox.Text = reader["Salary"].ToString();
        }
        else
        {
            MessageBox.Show("No experience found with the specified Job ID.", "No Results",
            MessageBoxButtons.OK, MessageBoxIcon.Information);
        }

        connection.Close();
    }
}
catch (Exception ex)
{
    MessageBox.Show($"An error occurred: {ex.Message}", "Error", MessageBoxButtons.OK,
    MessageBoxIcon.Error);
}
}
}
}

```

## **JOBEXPEERIENCE.DESIGNER.CS:**

```

using System;

using System.Data.SqlClient;

using System.Drawing;

using System.Windows.Forms;

namespace Database_new
{

```

```

public partial class Form2 : Form
{
    private TextBox jobIdTextBox;
    private TextBox degreeTextBox;
    private TextBox skillsTextBox;
    private TextBox yearsOfExperienceTextBox;
    private TextBox salaryTextBox;
    private Button searchButton;

    public Form2()
    {
        Initialize_Component();
    }

    private void Initialize_Component()
    {
        this.SuspendLayout();

        this.Text = "Experience Management";
        this.Size = new System.Drawing.Size(800, 500);
        this.BackColor = System.Drawing.Color.White;
        this.BackgroundImage =
System.Drawing.Image.FromFile("C:\\Users\\HP\\Desktop\\pixabay-linkedln-1660283998.jpg");

        // Title Label
        Label titleLabel = new Label();
        titleLabel.Text = "Experience Management";
        titleLabel.Font = new System.Drawing.Font("Times New Roman", 23F,
System.Drawing.FontStyle.Bold);

```

```
titleLabel.ForeColor = System.Drawing.Color.Black;

titleLabel.AutoSize = true;

titleLabel.Location = new System.Drawing.Point(250, 20);

this.Controls.Add(titleLabel);


// Job ID

Label jobIdLabel = new Label();

jobIdLabel.Text = "Job ID:";

jobIdLabel.Location = new System.Drawing.Point(230, 100);

jobIdLabel.Font = new System.Drawing.Font("Times New Roman", 10F);

this.Controls.Add(jobIdLabel);


jobIdTextBox = new TextBox();

jobIdTextBox.Name = "JobIDTextBox";

jobIdTextBox.Location = new System.Drawing.Point(380, 100);

jobIdTextBox.Size = new System.Drawing.Size(200, 30);

this.Controls.Add(jobIdTextBox);


// Degree

Label degreeLabel = new Label();

degreeLabel.Text = "Degree:";

degreeLabel.Location = new System.Drawing.Point(230, 150);

degreeLabel.Font = new System.Drawing.Font("Times New Roman", 10F);

this.Controls.Add(degreeLabel);


degreeTextBox = new TextBox();

degreeTextBox.Name = "DegreeTextBox";

degreeTextBox.Location = new System.Drawing.Point(380, 150);
```



```
degreeTextBox.Size = new System.Drawing.Size(200, 30);  
this.Controls.Add(degreeTextBox);
```

```
// Skills
```

```
Label skillsLabel = new Label();  
skillsLabel.Text = "Skills:";  
skillsLabel.Location = new System.Drawing.Point(230, 200);  
skillsLabel.Font = new System.Drawing.Font("Times New Roman", 10F);  
this.Controls.Add(skillsLabel);
```

```
skillsTextBox = new TextBox();  
skillsTextBox.Name = "SkillsTextBox";  
skillsTextBox.Location = new System.Drawing.Point(380, 200);  
skillsTextBox.Size = new System.Drawing.Size(200, 30);  
this.Controls.Add(skillsTextBox);
```

```
// Years of Experience
```

```
Label yearsOfExperienceLabel = new Label();  
yearsOfExperienceLabel.Text = "Years of Experience:";  
yearsOfExperienceLabel.Location = new System.Drawing.Point(230, 250);  
yearsOfExperienceLabel.Font = new System.Drawing.Font("Times New Roman", 10F);  
this.Controls.Add(yearsOfExperienceLabel);
```

```
yearsOfExperienceTextBox = new TextBox();  
yearsOfExperienceTextBox.Name = "YearsOfExperienceTextBox";  
yearsOfExperienceTextBox.Location = new System.Drawing.Point(380, 250);  
yearsOfExperienceTextBox.Size = new System.Drawing.Size(200, 30);  
this.Controls.Add(yearsOfExperienceTextBox);
```

```
// Salary

Label salaryLabel = new Label();
salaryLabel.Text = "Salary:";
salaryLabel.Location = new System.Drawing.Point(230, 300);
salaryLabel.Font = new System.Drawing.Font("Times New Roman", 10F);
this.Controls.Add(salaryLabel);

salaryTextBox = new TextBox();
salaryTextBox.Name = "SalaryTextBox";
salaryTextBox.Location = new System.Drawing.Point(380, 300);
salaryTextBox.Size = new System.Drawing.Size(200, 30);
this.Controls.Add(salaryTextBox);

// Search Button

searchButton = new Button();
searchButton.Text = "Search";
searchButton.Location = new System.Drawing.Point(460, 350);
searchButton.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold);
searchButton.BackColor = System.Drawing.Color.SteelBlue;
searchButton.ForeColor = System.Drawing.Color.White;
searchButton.Size = new System.Drawing.Size(100, 40);
searchButton.Click += new EventHandler(this.SearchButton_Click);
this.Controls.Add(searchButton);

this.ResumeLayout(false);
}
```

```

private void SearchButton_Click(object sender, EventArgs e)
{
    string query = "SELECT * FROM Experience WHERE Job_ID = @JobID";

    string connectionString = @"Data Source=DESKTOP-70DHDVV;Initial
Catalog=""Linkedin job"";Integrated Security=True";

    try
    {
        using (SqlConnection connection = new SqlConnection(connectionString))
        {
            SqlCommand command = new SqlCommand(query, connection);
            command.Parameters.AddWithValue("@JobID", jobIdTextBox.Text);

            connection.Open();

            SqlDataReader reader = command.ExecuteReader();

            if (reader.Read())
            {
                jobIdTextBox.Text = reader["Job_ID"].ToString();
                degreeTextBox.Text = reader["Degree"].ToString();
                skillsTextBox.Text = reader["Skills"].ToString();
                yearsOfExperienceTextBox.Text = reader["Year_of_Experience"].ToString();
                salaryTextBox.Text = reader["Salary"].ToString();
            }
            else
            {

```

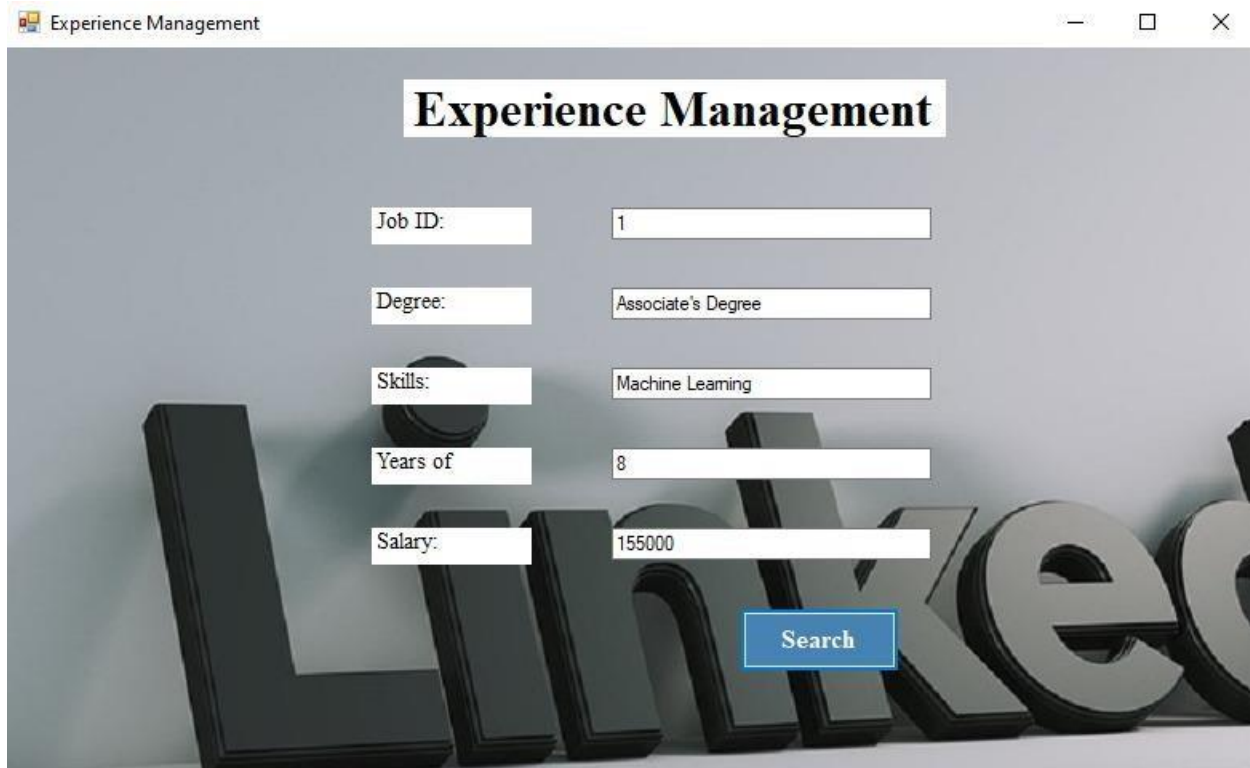
```

        MessageBox.Show("No experience found with the specified Job ID.", "No
Results", MessageBoxButtons.OK, MessageBoxIcon.Information);
    }

    connection.Close();
}
}
catch (Exception ex)
{
    MessageBox.Show($"An error occurred: {ex.Message}", "Error",
    MessageBoxButtons.OK, MessageBoxIcon.Error);
}
}
}
}
}

```

## **OUTPUT:**



The screenshot shows a Windows application window titled "Experience Management". The window contains a search form with the following fields and values:

Field	Value
Job ID:	1
Degree:	Associate's Degree
Skills:	Machine Learning
Years of	8
Salary:	155000

A blue "Search" button is located at the bottom right of the form. The background of the application window features large, 3D-style letters spelling out "Linked".