# **ПЕРВАЯ ФОРМА С#**

using System.Linq;

using Avalonia.Interactivity;

using MySql.Data.MySqlClient;

using System;

namespace AvaloniaApplication4podgotovka;

public partial class MainWindow : Window

{

private string connString = "server=localhost; database=preparation;port=3307;User Id=root; password=";

private MySqlConnection conn;

private List<Employee> employee;

private List<Gender> gender;

private MySqlConnection connection;

public MainWindow()

{

InitializeComponent();

ShowTable(full);

FillGender();

}

private string full = "SELECT employee.id, employee.lastname, genders.gender, employee.post FROM `employee` JOIN `genders` ON employee.gender = genders.id;";

public void ShowTable(string sql)

{

employee = new List<Employee>();

conn = new MySqlConnection(connString);

conn.Open();

MySqlCommand command = new MySqlCommand(sql, conn);

MySqlDataReader reader = command.ExecuteReader();

while (reader.Read() && reader.HasRows)

{

var Employee = new Employee()

{

id = reader.GetInt32("id"),

lastname = reader.GetString("lastname"),

gender = reader.GetString("gender"),

post = reader.GetString("post")

};

employee.Add(Employee);

}

conn.Close();

Employeer.ItemsSource = employee;

}

private void Delete(object? sender, RoutedEventArgs e)

{

try

{

Employee employe = Employeer.SelectedItem as Employee;

if (employee == null)

{

return;

}

conn = new MySqlConnection(connString);

conn.Open();

string sql = "DELETE FROM `employee` WHERE id=" +employe.id;

MySqlCommand cmd = new MySqlCommand(sql, conn);

cmd.ExecuteNonQuery();

conn.Close();

employee.Remove(employe);

ShowTable(full);

}

catch (Exception ex)

{

Console.WriteLine(ex.Message);

}

}

private void SearchLN(object? sender, TextChangedEventArgs e)

{

var gds = employee;

gds = gds.Where(x => x.post.Contains(Search.Text)).ToList();

Employeer.ItemsSource = gds;

}

private void Reset(object? sender, RoutedEventArgs e)

{

ShowTable(full);

Search.Text = string.Empty;

}

private void Cmb\_Gender(object? sender, SelectionChangedEventArgs e)

{

var genderCombobox = (ComboBox)sender;

var currentGender = genderCombobox.SelectedItem as Gender;

var filtredGender = gender

.Where(x => x.gender == currentGender.gender)

.ToList();

Employeer.ItemsSource = filtredGender;

}

public void FillGender()

{

gender = new List<Gender>();

conn = new MySqlConnection(connString);

conn.Open();

MySqlCommand command = new MySqlCommand("SELECT \* FROM `genders`", conn);

MySqlDataReader reader = command.ExecuteReader();

while (reader.Read() && reader.HasRows)

{

var currentGender = new Gender()

{

id = reader.GetInt32("id"),

gender = reader.GetString("gender")

};

gender.Add(currentGender);

}

conn.Close();

var genderComboBox = this.Find<ComboBox>("CmbGender");

genderComboBox.ItemsSource = gender;

}

public void Adder(object? sender, RoutedEventArgs e)

{

Employee newEmployee = new Employee();

Adder add = new Adder(newEmployee, employee);

add.Show();

this.Close();

}

public void Update(object? sender, RoutedEventArgs e)

{

Employee newEmployee = Employeer.SelectedItem as Employee;

if (newEmployee==null)

{

return;

}

Editor upd = new Editor(newEmployee, employee);

upd.Show();

this.Close();

}

}

# **ПЕРВАЯ ФОРМА XMAL**

<Window xmlns="https://github.com/avaloniaui"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

mc:Ignorable="d" d:DesignWidth="800" d:DesignHeight="380"

MaxHeight="355"

MaxWidth="400"

x:Class="AvaloniaApplication4podgotovka.MainWindow"

Title="Готовимся">

<Grid>

<StackPanel Orientation="Vertical">

<StackPanel Orientation="Horizontal">

<TextBlock VerticalAlignment="Center" Margin="10 10 0 0 ">Поиск</TextBlock>

<TextBox Name="Search" Width="200" Margin="30 10 0 0" TextChanged="SearchLN"></TextBox>

<StackPanel Margin="35 12 00 0">

<Button Name="Res" Content="Сброс" Click="Reset"></Button>

</StackPanel>

</StackPanel>

<StackPanel Orientation="Horizontal">

<ComboBox Name="CmbGender" x:CompileBindings="False" SelectionChanged="Cmb\_Gender" Width="200" Margin="85 10 0 0">

<ComboBox.ItemTemplate>

<DataTemplate>

<TextBlock Text="{ Binding gender}"></TextBlock>

</DataTemplate>

</ComboBox.ItemTemplate>

</ComboBox>

</StackPanel>

<DataGrid Name="Employeer" x:CompileBindings="False" Margin="10 20 0 0" Height="200">

<DataGrid.Columns>

<DataGridTextColumn Header="id" Binding="{Binding id}"></DataGridTextColumn>

<DataGridTextColumn Header="Фамилия" Binding="{Binding lastname}"></DataGridTextColumn>

<DataGridTextColumn Header="Пол" Binding="{Binding gender}"></DataGridTextColumn>

<DataGridTextColumn Header="Должность" Binding="{Binding post}"></DataGridTextColumn>

</DataGrid.Columns>

</DataGrid>

<StackPanel Orientation="Vertical">

<StackPanel Orientation="Horizontal">

<StackPanel Margin="10 12 00 0">

<Button Name="Del" Content="Удалить" Click="Delete"></Button>

</StackPanel>

<StackPanel Margin="10 12 00 0">

<Button Name="Add" Content="Добавить" Click="Adder"></Button>

</StackPanel>

<StackPanel Margin="10 12 00 0">

<Button Name="Upd" Content="Обновить" Click="Update"></Button>

</StackPanel>

</StackPanel>

</StackPanel>

</StackPanel>

</Grid>

</Window>

# **ФОРМА ДОБАВЛЕНИЯ C#**

using Avalonia.Controls;

using System.Collections.Generic;

using System.Linq;

using Avalonia.Interactivity;

using MySql.Data.MySqlClient;

using System;

namespace AvaloniaApplication4podgotovka;

public partial class Adder : Window

{

private List<Employee> Empl;

private Employee NewEmployee;

public Adder(Employee newEmployee, List<Employee> empl)

{

InitializeComponent();

NewEmployee = new Employee();

this.DataContext = newEmployee;

Empl = empl;

}

private MySqlConnection conn;

private string connString = "server=localhost; database=preparation; port=3307;User Id=root;password=";

private void Adds(object? sender, RoutedEventArgs e)

{

var emp = Empl.FirstOrDefault(x => x.id == NewEmployee.id);

if (emp == null)

{

try

{

conn = new MySqlConnection(connString);

conn.Open();

string add = "INSERT INTO `employee`(lastname,gender,post) VALUES('"+ lastname.Text +"', '"+Convert.ToInt32(gender.Text)+"', '"+ post.Text +"');";

MySqlCommand cmd = new MySqlCommand(add, conn);

cmd.ExecuteNonQuery();

conn.Close();

}

catch (Exception exception)

{

Console.WriteLine("Error:"+exception);

}

}

}

private void Back(object? sender, RoutedEventArgs e)

{

MainWindow mn = new MainWindow();

mn.Show();

this.Close();

}

}

# **ФОРМА ДОБАВЛЕНИЯ XAML**

<Window xmlns="https://github.com/avaloniaui"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

mc:Ignorable="d" d:DesignWidth="300" d:DesignHeight="330"

MaxWidth="300" MaxHeight="330"

x:Class="AvaloniaApplication4podgotovka.Adder"

Title="Добавить">

<UniformGrid Columns="1" HorizontalAlignment="Center" VerticalAlignment="Center">

<TextBlock Margin="10 10 0 0" FontSize="20" FontWeight="Bold">Добавить данные</TextBlock>

<StackPanel>

<TextBlock Margin="0 15 0 0">Фамилия:</TextBlock>

<TextBox Name="lastname" x:CompileBindings="False" Text="{Binding lastname}"></TextBox>

</StackPanel>

<StackPanel>

<TextBlock Margin="0 15 0 0">Пол:</TextBlock>

<TextBox Name="gender" x:CompileBindings="False" Text="{Binding gender}"></TextBox>

</StackPanel>

<StackPanel>

<TextBlock Margin="0 15 0 0 ">Должность:</TextBlock>

<TextBox Name="post" x:CompileBindings="False" Text="{Binding post}"></TextBox>

</StackPanel>

<StackPanel Orientation="Vertical">

<StackPanel Orientation="Horizontal">

<StackPanel Margin="0 20 0 0 ">

<Button Name="Add" Content="Добавить" Click="Adds"></Button>

</StackPanel>

<StackPanel Margin="10 20 0 0 ">

<Button Name="Bck" Content="Назад" Click="Back"></Button>

</StackPanel>

</StackPanel>

</StackPanel>

</UniformGrid>

</Window>

# **ФОРМА ОБНОВЛЕНИЯ C#**

using Avalonia.Controls;

using System.Collections.Generic;

using System.Linq;

using Avalonia.Interactivity;

using MySql.Data.MySqlClient;

using System;

namespace AvaloniaApplication4podgotovka;

public partial class Editor : Window

{

private List<Employee> Empl;

private Employee NewEmployee;

public Editor(Employee newEmployee, List<Employee> empl)

{

InitializeComponent();

NewEmployee = newEmployee;

this.DataContext = newEmployee;

Empl = empl;

}

private MySqlConnection conn;

private string connString = "server=localhost; database=preparation; port=3307;User Id=root;password=";

private void Edit(object? sender, RoutedEventArgs e)

{

var emp = Empl.FirstOrDefault(x => x.id == NewEmployee.id);

if (emp != null)

{

try

{

conn = new MySqlConnection(connString);

conn.Open();

string edit = "UPDATE `employee` SET lastname = '"+lastname.Text+"', gender ="+Convert.ToInt32(gender.Text)+", post= '"+post.Text+ "' WHERE id = " + Convert.ToInt32(id.Text) + ";";

MySqlCommand cmd = new MySqlCommand(edit, conn);

cmd.ExecuteNonQuery();

conn.Close();

}

catch (Exception exception)

{

Console.WriteLine("Error" + exception);

}

}

}

private void Back(object? sender, RoutedEventArgs e)

{

MainWindow mn = new MainWindow();

mn.Show();

this.Close();

}

}

# **ФОРМА ОБНОВЛЕНИЯ XAML**

<Window xmlns="https://github.com/avaloniaui"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

mc:Ignorable="d" d:DesignWidth="800" d:DesignHeight="450"

MaxWidth="300" MaxHeight="330"

x:Class="AvaloniaApplication4podgotovka.Editor"

Title="Изменить">

<UniformGrid Columns="1" VerticalAlignment="Center" HorizontalAlignment="Center">

<TextBlock Margin="10 10 0 0" FontSize="20" FontWeight="Bold">Изменить запись</TextBlock>

<StackPanel>

<TextBlock>ID:</TextBlock>

<TextBox Name="id" x:CompileBindings="False" Text="{Binding id}"></TextBox>

</StackPanel>

<StackPanel>

<TextBlock>Фамилия:</TextBlock>

<TextBox Name="lastname" x:CompileBindings="False" Text="{Binding lastname}"></TextBox>

</StackPanel>

<StackPanel>

<TextBlock>Пол:</TextBlock>

<TextBox Name="gender" x:CompileBindings="False" Text="{Binding gender}"></TextBox>

</StackPanel>

<StackPanel>

<TextBlock>Должность:</TextBlock>

<TextBox Name="post" x:CompileBindings="False" Text="{Binding post}"></TextBox>

</StackPanel>

<StackPanel Orientation="Vertical">

<StackPanel Orientation="Horizontal">

<StackPanel Margin="0 20 0 0">

<Button Name="Editr" Content="Изменить" Click="Edit"></Button>

</StackPanel>

<StackPanel Margin="10 20 0 0">

<Button Name="Backs" Content="Назад" Click="Back"></Button>

</StackPanel>

</StackPanel>

</StackPanel>

</UniformGrid>

</Window>