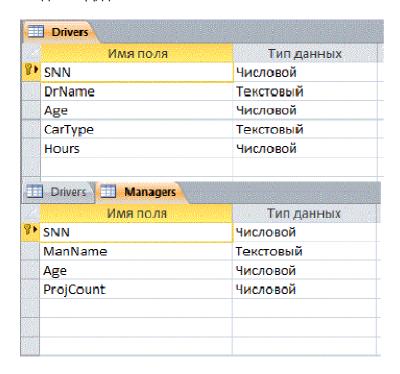Создаем БД, две таблички с полями:



Проект – добавить новый источник данных и все по порядку.

Небольшие изменения:

Добавить кнопку «добавить», сделать поле Name доступным для записи.

```xml
<StackPanel Orientation="Horizontal">
        <TextBlock Width="150" Text="Имя" FontSize="24"/>
        <TextBox Width="150" Text="{Binding Name}" FontSize="24"/>
    </StackPanel>
```

```xml
<Button Content="Добавить" Margin="0 20 0 0" Click="Button_Click_Add"/>
```

```csharp
public string Name
    {
        get { return name; }
        set { name = value; }
    }
```

Всем полям обязательно дать имя.

```xml
<StackPanel Name="detailsPanel" Grid.Column="1" Orientation="Vertical">
        <StackPanel Orientation="Horizontal">
            <TextBlock Width="150" Text="Имя" FontSize="24"/>
            <TextBox Name="nameInfo" Width="150" Text="{Binding Name}" FontSize="24"/>
        </StackPanel>

        <StackPanel Margin="0 20 0 0" Orientation="Horizontal">
            <TextBlock Width="150" Text="Возраст" FontSize="24"/>
            <TextBox Name="ageInfo" Width="150" Text="{Binding Age}" FontSize="24"/>
        </StackPanel>

        <StackPanel Margin="0 20 0 0" Orientation="Horizontal">
            <TextBlock Width="150" Text="ИНН" FontSize="24"/>
            <TextBox Name="snnInfo" Width="150" Text="{Binding Snn}" FontSize="24"/>
        </StackPanel>
```

```xml
<StackPanel Name="driverInfo">
    <StackPanel Margin="0 20 0 0" Orientation="Horizontal">
        <TextBlock Width="150" Text="Машина" FontSize="24"/>
        <TextBox Name="carTypeInfo" Width="150" Text="{Binding CarType}" FontSize="24"/>
    </StackPanel>

    <StackPanel Margin="0 20 0 0" Orientation="Horizontal">
        <TextBlock Width="150" Text="Часы" FontSize="24"/>
        <TextBox Name="hoursInfo" Width="150" Text="{Binding Hours}" FontSize="24"/>
    </StackPanel>
</StackPanel>

<StackPanel Name="managerInfo" Margin="0 20 0 0" Orientation="Horizontal">
    <TextBlock Width="150" Text="Проектов" FontSize="24"/>
    <TextBox Name ="projCountInfo" Width="150" Text="{Binding ProjectsCount}"
FontSize="24"/>
</StackPanel>

<Button Content="Удалить" Click="Button_Click"/>
<Button Content="Добавить" Margin="0 20 0 0" Click="Button_Click_Add"/>
</StackPanel>
```

Теперь можно занять добавлением в базу.

```csharp
private void Button_Click_Add(object sender, RoutedEventArgs e)
    {
        if (projCountInfo.Text == "")
        {
            Driver dr = new Driver(nameInfo.Text, int.Parse(ageInfo.Text),
Int64.Parse(snnInfo.Text), carTypeInfo.Text, int.Parse(hoursInfo.Text));
            OleDbConnection con = new OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=" + Environment.CurrentDirectory + "\\WorkersDB.accdb");

            OleDbCommand insert = new OleDbCommand("INSERT INTO Drivers (`SNN`, `DrName`, `Age`,
`CarType`, `Hours`) VALUES (@snn, @drName, @age, @carType, @hours)", con);
            insert.Parameters.AddWithValue("@snn", dr.Snn);
            insert.Parameters.AddWithValue("@drName", dr.Name);
            insert.Parameters.AddWithValue("@age", dr.Age);
            insert.Parameters.AddWithValue("@carType", dr.CarType);
            insert.Parameters.AddWithValue("@hours", dr.Hours);

            con.Open();
            insert.ExecuteNonQuery();
            con.Close();
            MessageBox.Show("Добавили \n" + dr.Name);
        }
        else
        {
            Manager mn = new Manager(nameInfo.Text, int.Parse(ageInfo.Text),
Int64.Parse(snnInfo.Text), int.Parse(projCountInfo.Text));
        }
    }
```

А для того, чтобы все было гладко, надо бы поместить всю эту лажу в блок try-catch.

```csharp
private void Button_Click_Add(object sender, RoutedEventArgs e)
    {
        if (projCountInfo.Text == "")
        {
            try
            {

                Driver dr = new Driver(nameInfo.Text, int.Parse(ageInfo.Text),
Int64.Parse(snnInfo.Text), carTypeInfo.Text, int.Parse(hoursInfo.Text));
                OleDbConnection con = new
OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source=" + Environment.CurrentDirectory +
"\\WorkersDB.accdb");
                OleDbCommand insert = new OleDbCommand();
```

```csharp
                insert = new OleDbCommand("INSERT INTO Drivers (`SNN`, `DrName`, `Age`,
`CarType`, `Hours`) VALUES (@snn, @drName, @age, @carType, @hours)", con);
                insert.Parameters.AddWithValue("@snn", dr.Snn);
                insert.Parameters.AddWithValue("@drName", dr.Name);
                insert.Parameters.AddWithValue("@age", dr.Age);
                insert.Parameters.AddWithValue("@carType", dr.CarType);
                insert.Parameters.AddWithValue("@hours", dr.Hours);
                con.Open();
                insert.ExecuteNonQuery();
                con.Close();
                MessageBox.Show("Добавили \n" + dr.Name);
            }
            catch (FormatException ex)
            {
                MessageBox.Show("Ошибка ввода \n" + ex.Message);
            }
        }
        else
        {
            Manager mn = new Manager(nameInfo.Text, int.Parse(ageInfo.Text),
Int64.Parse(snnInfo.Text), int.Parse(projCountInfo.Text));
        }
    }
```

Запилим ту же хрень для менеджера

```csharp
else
        {
            try
            {
                Manager mn = new Manager(nameInfo.Text, int.Parse(ageInfo.Text),
Int64.Parse(snnInfo.Text), int.Parse(projCountInfo.Text));
                OleDbConnection con = new
OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source=" + Environment.CurrentDirectory +
"\\WorkersDB.accdb");
                OleDbCommand insert = new OleDbCommand();
                insert = new OleDbCommand("INSERT INTO Managers (`SNN`, `ManName`, `Age`,
`ProjCount`) VALUES (@snn, @manName, @age, @projCount)", con);
                insert.Parameters.AddWithValue("@snn", mn.Snn);
                insert.Parameters.AddWithValue("@manName", mn.Name);
                insert.Parameters.AddWithValue("@age", mn.Age);
                insert.Parameters.AddWithValue("@carType", mn.ProjectsCount);
                con.Open();
                insert.ExecuteNonQuery();
                con.Close();
                MessageBox.Show("Добавили \n" + mn.Name);
            }
            catch (FormatException ex)
            {
                MessageBox.Show("Ошибка ввода \n" + ex.Message);
            }
        }
    }
```

Теперь запилим так, чтобы новые работники добавлялись в коллекцию, отображались в листбоксе, и затирались поля в стековых панелях.

```csharp
private void Button_Click_Add(object sender, RoutedEventArgs e)
        {
            if (projCountInfo.Text == "")
            {
                try
                {
                    Driver dr = new Driver(nameInfo.Text, int.Parse(ageInfo.Text),
Int64.Parse(snnInfo.Text), carTypeInfo.Text, int.Parse(hoursInfo.Text));
                    OleDbConnection con = new
OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source=" + Environment.CurrentDirectory +
"\\WorkersDB.accdb");
```

```csharp
                OleDbCommand insert = new OleDbCommand();
                insert = new OleDbCommand("INSERT INTO Drivers (`SNN`, `DrName`, `Age`,
`CarType`, `Hours`) VALUES (@snn, @drName, @age, @carType, @hours)", con);
                insert.Parameters.AddWithValue("@snn", dr.Snn);
                insert.Parameters.AddWithValue("@drName", dr.Name);
                insert.Parameters.AddWithValue("@age", dr.Age);
                insert.Parameters.AddWithValue("@carType", dr.CarType);
                insert.Parameters.AddWithValue("@hours", dr.Hours);
                con.Open();
                insert.ExecuteNonQuery();
                con.Close();
                Workers.Add(dr);
                MessageBox.Show("Добавили \n" + dr.Name);
                ClearInfoTable();
            }
            catch (FormatException ex)
            {
                MessageBox.Show("Ошибка ввода \n" + ex.Message);
            }
        }
        else
        {
            try
            {
                Manager mn = new Manager(nameInfo.Text, int.Parse(ageInfo.Text),
Int64.Parse(snnInfo.Text), int.Parse(projCountInfo.Text));
                OleDbConnection con = new
OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source=" + Environment.CurrentDirectory +
"\\WorkersDB.accdb");
                OleDbCommand insert = new OleDbCommand();
                insert = new OleDbCommand("INSERT INTO Managers (`SNN`, `ManName`, `Age`,
`ProjCount`) VALUES (@snn, @manName, @age, @projCount)", con);
                insert.Parameters.AddWithValue("@snn", mn.Snn);
                insert.Parameters.AddWithValue("@manName", mn.Name);
                insert.Parameters.AddWithValue("@age", mn.Age);
                insert.Parameters.AddWithValue("@carType", mn.ProjectsCount);
                con.Open();
                insert.ExecuteNonQuery();
                con.Close();
                Workers.Add(mn);
                MessageBox.Show("Добавили \n" + mn.Name);
                ClearInfoTable();
            }
            catch (FormatException ex)
            {
                MessageBox.Show("Ошибка ввода \n" + ex.Message);
            }
        }
    }

    private void ClearInfoTable()
    {
        nameInfo.Text = "";
        ageInfo.Text = "";
        snnInfo.Text = "";
        projCountInfo.Text = "";
        carTypeInfo.Text = "";
        hoursInfo.Text = "";
    }
```

Теперь сделаем так, чтобы листбокс заполнялся не из заданной коллекции, а из БД.

```csharp
public MainWindow()
{
    InitializeComponent();
    Workers = new ObservableCollection<Worker>();
    Workers.Add(new Manager("Светлана", 25, 78461532,  9));
    Workers.Add(new Driver("Вася", 32, 488653, "Audi", 340));
    Workers.Add(new Manager("Елена", 27, 448666, 19));
    Workers.Add(new Driver("Петя", 45, 789542, "BMW", 256));
    Workers.Add(new Manager("Екатерина", 23, 78985622, 15));
    Workers.Add(new Driver("Саша", 45, 789542, "BMW", 256));

    OleDbConnection con = new OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=" + Environment.CurrentDirectory + "\\WorkersDB.accdb");

    con.Open();
    OleDbCommand select = new OleDbCommand();
    //select.Connection = con;
    select = new OleDbCommand("SELECT SNN, ManName, Age, ProjCount FROM Managers", con);
    //select = new OleDbCommand("SELECT * FROM Managers", con);
    OleDbDataReader reader = select.ExecuteReader();
    while (reader.Read())
    {
        Workers.Add(new Manager(reader[1].ToString(), Convert.ToInt32(reader[2]),
Convert.ToInt64(reader[0]), Convert.ToInt32(reader[3])));
    }
    //select = new OleDbCommand("SELECT SNN, DrName, Age, CarType, Hours FROM Drivers");
    select = new OleDbCommand("SELECT * FROM Drivers", con);
    reader = select.ExecuteReader();
    while (reader.Read())
    {
        Workers.Add(new Driver(reader[1].ToString(), Convert.ToInt32(reader[2]),
Convert.ToInt64(reader[0]), reader[3].ToString(), Convert.ToInt32(reader[4])));
    }


    con.Close();

    DataContext = this;
}
```

И запилим адекватное удаление из БД

```csharp
private void Button_Click(object sender, RoutedEventArgs e)
{
    Worker delWorker = (workersList.SelectedItem as Worker);
    if (delWorker != null)
    {
        Workers.Remove(delWorker);
        workersList.SelectedIndex = 0;

        OleDbConnection con = new OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=" + Environment.CurrentDirectory + "\\WorkersDB.accdb");

        con.Open();
        OleDbCommand delete = new OleDbCommand();

        if (delWorker is Driver)
        {
            delete = new OleDbCommand("DELETE FROM Drivers WHERE SNN =@snn", con);
            delete.Parameters.AddWithValue("@snn", delWorker.Snn);
        }
        if (delWorker is Manager)
        {
            delete = new OleDbCommand("DELETE FROM Managers WHERE SNN =@snn", con);
            delete.Parameters.AddWithValue("@snn", delWorker.Snn);
        }
```

```
            delete.ExecuteNonQuery();
            con.Close();
            MessageBox.Show("Удален + \n" + delWorker.Name);
        }
    }
```