Form 1.cs

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

namespace prg1partb
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            new Form2().Show();
            this.Hide();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            new Form3().Show();
            this.Hide();
        }

        private void button3_Click(object sender, EventArgs e)
        {
            new Form4().Show();
            this.Hide();
        }

        private void button4_Click(object sender, EventArgs e)
        {
            new Form5().Show();
            this.Hide();
        }

        private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs e)
        {

        }

        private void button5_Click(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection("Data Source=mca01-17\\sqlexpress;Initial Catalog=db_EMS2;Integrated Security=True;Pooling=False");
            con.Open();

            string query = "SELECT * FROM tbl_EmployeeDetails";

            SqlDataAdapter da = new SqlDataAdapter(query, con);
            DataTable dt = new DataTable();
            da.Fill(dt);

            dataGridView1.DataSource = dt;

            con.Close();
        }
    }
}
```

Form2.cs

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

namespace prg1partb
{
    public partial class Form2 : Form
    {
        public Form2()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            SqlConnection conn = new SqlConnection("Data Source=mca01-17\\sqlexpress;Initial
Catalog=db_EMS2;Integrated Security=True;Pooling=False");

            conn.Open();

            SqlCommand cmd = new SqlCommand("insert into tbl_EmployeeDetails
values("+textBox1.Text+",'"+textBox2.Text+"','"+textBox3.Text+"','"+textBox4.Text+"','"+textBox5.Tex
t+"')",conn);
            cmd.ExecuteNonQuery();

            MessageBox.Show("Employee Details Entered Successfully");

            textBox1.Text = "";
            textBox2.Text = "";
            textBox3.Text = "";
            textBox4.Text = "";
            textBox5.Text = "";
            textBox1.Focus();

            conn.Close();


        }

        private void textBox1_TextChanged(object sender, EventArgs e)
        {

        }

        private void button2_Click(object sender, EventArgs e)
        {
            new Form1().Show();
            this.Hide();
        }

    }
}
```

Form3.cs

```csharp
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
```

```csharp
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace prg1partb
{
    public partial class Form3 : Form
    {
        public Form3()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection("Data Source=mca01-17\\sqlexpress;Initial
Catalog=db_EMS2;Integrated Security=True;Pooling=False");

            con.Open();
            SqlDataAdapter da = new SqlDataAdapter("SELECT * FROM tbl_EmployeeDetails WHERE
IdReportingTo = (SELECT IdEmployee FROM tbl_EmployeeDetails WHERE EmployeeName = '" +
comboBox1.SelectedValue.ToString() + "')", con);

            DataTable dt = new DataTable();
            da.Fill(dt);

            dataGridView1.DataSource = dt;

            con.Close();

        }

        private void Form3_Load(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection("Data Source=mca01-17\\sqlexpress;Initial
Catalog=db_EMS2;Integrated Security=True;Pooling=False");
            con.Open();

            SqlDataAdapter da = new SqlDataAdapter("SELECT EmployeeName FROM tbl_EmployeeDetails
WHERE IdDesignation = 1", con);
            DataTable dt = new DataTable();
            da.Fill(dt);

            comboBox1.DataSource = dt;
            comboBox1.DisplayMember = "EmployeeName";
            comboBox1.ValueMember = "EmployeeName";

            con.Close();
        }


        private void button2_Click(object sender, EventArgs e)
        {
            new Form1().Show();
            this.Hide();
        }
    }
}
```

Form4.cs

```csharp
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
```

```csharp
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace prg1partb
{
    public partial class Form4 : Form
    {
        public Form4()
        {
            InitializeComponent();
        }

        private void Form4_Load(object sender, EventArgs e)
        {

            SqlConnection con = new SqlConnection("Data Source=mca01-17\\sqlexpress;Initial
Catalog=db_EMS2;Integrated Security=True;Pooling=False");
            con.Open();

            SqlDataAdapter da = new SqlDataAdapter("SELECT EmployeeName FROM tbl_EmployeeDetails
WHERE IdDesignation = 2", con);
            DataTable dt = new DataTable();
            da.Fill(dt);

            comboBox1.DataSource = dt;
            comboBox1.DisplayMember = "EmployeeName";
            comboBox1.ValueMember = "EmployeeName";

            con.Close();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection("Data Source=mca01-17\\sqlexpress;Initial
Catalog=db_EMS2;Integrated Security=True;Pooling=False");
            con.Open();

            SqlDataAdapter da = new SqlDataAdapter("SELECT * FROM tbl_EmployeeDetails WHERE
IdReportingTo = (SELECT IdEmployee FROM tbl_EmployeeDetails WHERE EmployeeName = '" +
comboBox1.SelectedValue.ToString() + "')", con);

            DataTable dt = new DataTable();
            da.Fill(dt);

            dataGridView1.DataSource = dt;

            con.Close();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            new Form1().Show();
            this.Hide();
        }

    }
}
```

Form5.cs

```csharp
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
```

```csharp
using System.Data.SqlClient;

namespace prg1partb
{
    public partial class Form5 : Form
    {
        public Form5()
        {
            InitializeComponent();
        }


        private void button1_Click(object sender, EventArgs e)
        {
            new Form1().Show();
            this.Hide();
        }

        private void Form5_Load(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection("Data Source=mca01-17\\sqlexpress;Initial
Catalog=db_EMS2;Integrated Security=True;Pooling=False");
            con.Open();

            string query = "SELECT a.IdEmployee, a.EmployeeName, a.ContactNumber, a.IdDesignation,
a.IdReportingTo, b.EmployeeName AS ManagerName FROM tbl_EmployeeDetails a, tbl_EmployeeDetails b
WHERE a.IdReportingTo = b.IdEmployee;";

            SqlDataAdapter da = new SqlDataAdapter(query, con);
            DataTable dt = new DataTable();
            da.Fill(dt);

            dataGridView1.DataSource = dt;

            con.Close();
        }

        private void label1_Click(object sender, EventArgs e)
        {

        }

    }
}
```

Employee Management System

ENTER EMPLOYEE DETAILS

DISPLAY ALL EMPLOYEES

PROJECT LEADERS REPORTING PROJECT MANAGER

ENGINEERS REPORTING PROJECT

DISPLAY EMPLOYEE

Server Explorer

Data Connections
- mca01-17\sqlexpress.db_EMS2.dbo
  - Database Diagrams
  - Tables
    - tbl_Designations
    - tbl_EmployeeDetails
  - Views
  - Stored Procedures
  - Functions
  - Synonyms
  - Types
  - Assemblies
- Servers
  - MCA01-17
    - Event Logs
    - Management Classes
    - Management Events
    - Message Queues
    - Performance Counters
    - Services
- SharePoint Connections

dbo.tbl_Designatio...qlexpress.db_EMS2 × | dbo.tbl_EmployeeD...lexpress.db_EMS2) | tbl_EmployeeDetail...qlexpress.db_EMS2)

Column Name	Data Type	Allow Nulls
IdDesignation	int	☐
Designation	varchar(50)	☐

Column Properties

(General)
(Name)	IdDesignation
Allow Nulls	No
Data Type	int
Default Value or Binding	

Table Designer

(General)

Form3

PROJECT MANAGER

Preetham

View   Back

IdEmployee	EmployeeName	ContactNumber
102	Dsilva	9966554433
*		

Form5

Employee details with their reporting manager

IdEmployee	EmployeeName	ContactNumber	IdDesignation
102	Dsilva	9966554433	2
103	Jeffson	6789453456	3
105	james	7845079832	2
106	Karthik	6677889900	3
108	Jeevan	8899776655	3
110	jeff	7788996655	3
*			

Back

Form4

PROJECT LEADER

Dsilva

View   Back

IdEmployee	EmployeeName	ContactNumber	IdDesignation	Id
103	Jeffson	6789453456	3	10
106	Karthik	6677889900	3	10
*				

Server Explorer

Data Connections
- mca01-17\sqlexpress.db_EMS2.dbo
  - Database Diagrams
  - Tables
    - tbl_Designations
    - tbl_EmployeeDetails
  - Views
  - Stored Procedures
  - Functions
  - Synonyms
  - Types
  - Assemblies
- Servers
  - MCA01-17
    - Event Logs
    - Management Classes
    - Management Events
    - Message Queues
    - Performance Counters
    - Services
- SharePoint Connections

tbl_Designations:...sqlexpress.db_EMS2) × | Form1.cs [Design] | Form2.cs | Form2.cs [Design] | Form5.Designer.cs

IdDesignation	Designation
1	Project Manager
2	Project Leader
3	Engineer
NULL	NULL

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Server Explorer

Data Connections
- mca01-17\sqlexpress.db_EMS2.dbo
  - Database Diagrams
  - Tables
    - tbl_Designations
    - tbl_EmployeeDetails
  - Views
  - Stored Procedures
  - Functions
  - Synonyms
  - Types
  - Assemblies
- Servers
  - MCA01-17
    - Event Logs
    - Management Classes
    - Management Events
    - Message Queues
    - Performance Counters
    - Services
- SharePoint Connections

Form1.cs [Design] × | Form2.cs | Form2.cs [Design] | Form5.Designer.cs | Form5.cs | Form5.cs [Design]

Form1

Employee Management System

ENTER EMPLOYEE DETAILS

DISPLAY ALL EMPLOYEES

PROJECT LEADERS REPORTING PROJECT MANAGER

ENGINEERS REPORTING PROJECT

DISPLAY EMPLOYEE

Properties

dataGridView1 System.Windows.Forms.Dat...

(ApplicationSettings)	
(DataBindings)	
(Name)	dataGridView1
AccessibleDescript	
AccessibleName	
AccessibleRole	Default
AllowDrop	False
AllowUserToAddRc	True
AllowUserToDelete	True
AllowUserToOrderC	False
AllowUserToResize	True
AllowUserToResize	True
AlternatingRowsDt	DataGridViewCellStyl
Anchor	Top, Left
AutoSizeColumnsf	None
AutoSizeRowsMod	None
BackgroundColor	AppWorkspace
BorderStyle	FixedSingle
CausesValidation	True
CellBorderStyle	Single
ClipboardCopyMo	EnableWithAutoHea
ColumnHeadersBc	Raised

(ApplicationSettings)
Maps property settings to an application configuration file.

Toolbox | Properties

Server Explorer

Data Connections
- mca01-17\sqlexpress.db_EMS2.dbo
  - Database Diagrams
  - Tables
    - tbl_Designations
    - tbl_EmployeeDetails
  - Views
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    - Event Logs
    - Management Classes
    - Management Events
    - Message Queues
    - Performance Counters
    - Services
- SharePoint Connections

dbo.tbl_EmployeeD...lexpress.db_EMS2) × | tbl_EmployeeDetail...qlexpress.db_EMS2) | tbl_Designations:...sqlexpress.db_EMS2)

Column Name	Data Type	Allow Nulls
IdEmployee	int	☐
EmployeeName	varchar(50)	☐
ContactNumber	varchar(50)	☐
IdDesignation	int	☐
IdReportingTo	int	☑

Column Properties

(General)
(Name)	IdEmployee
Allow Nulls	No
Data Type	int
Default Value or Binding	