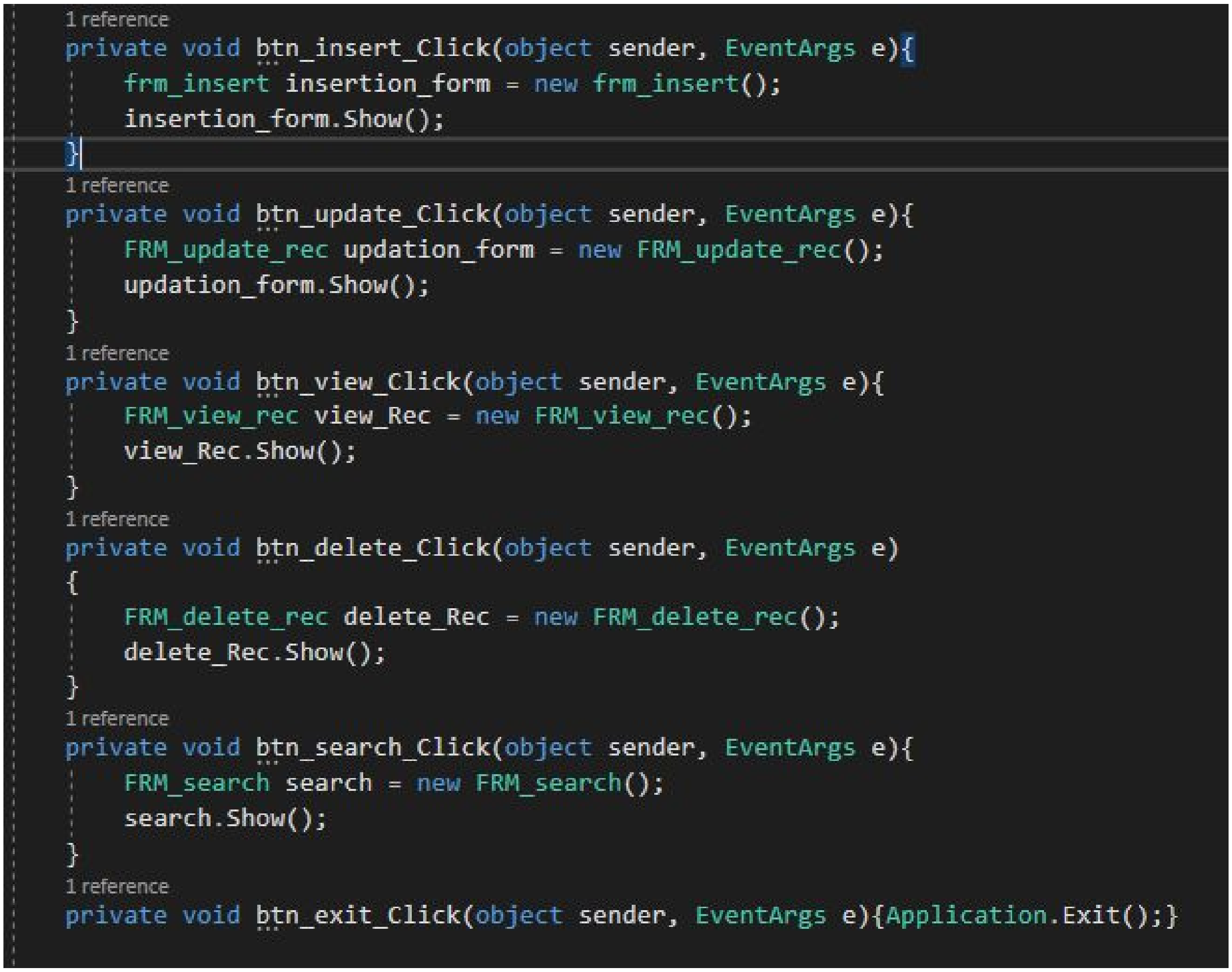
Here is the Repository that proves that I haven’t copied it from anywhere but wrote it all myself => GitHub
I used all the best practices that I’ve gained through out my 1 year of development

Question 1

Student Bio Data Form

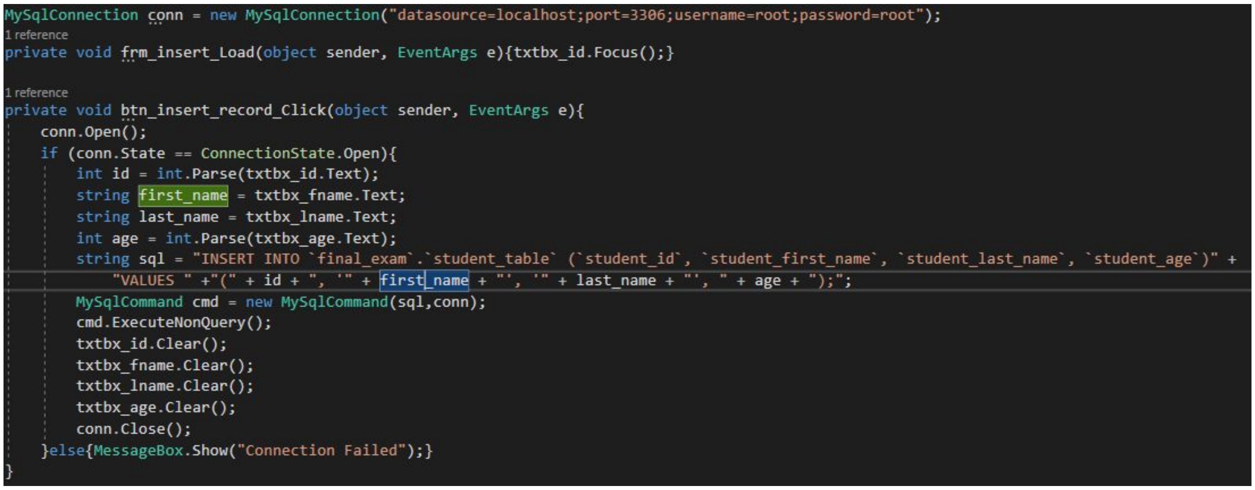
Source Code

Main Form



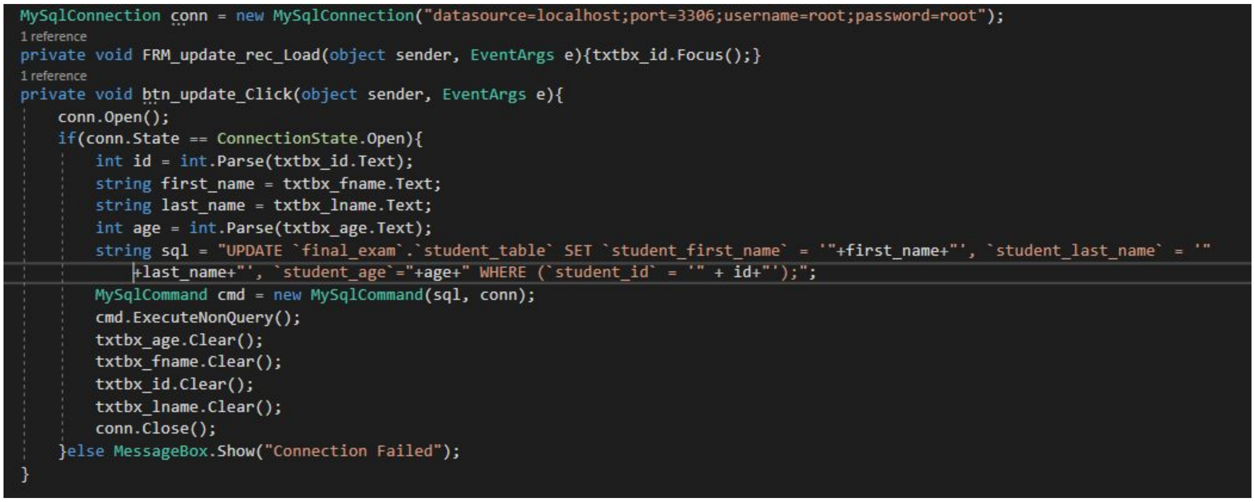
```
1 reference
private void btn_insert_Click(object sender, EventArgs e){
    frm_insert insertion_form = new frm_insert();
    insertion_form.Show();
}
1 reference
private void btn_update_Click(object sender, EventArgs e){
    FRM_update_rec updation_form = new FRM_update_rec();
    updation_form.Show();
}
1 reference
private void btn_view_Click(object sender, EventArgs e){
    FRM_view_rec view_Rec = new FRM_view_rec();
    view_Rec.Show();
}
1 reference
private void btn_delete_Click(object sender, EventArgs e)
{
    FRM_delete_rec delete_Rec = new FRM_delete_rec();
    delete_Rec.Show();
}
1 reference
private void btn_search_Click(object sender, EventArgs e){
    FRM_search search = new FRM_search();
    search.Show();
}
1 reference
private void btn_exit_Click(object sender, EventArgs e){Application.Exit();}
```

Insert



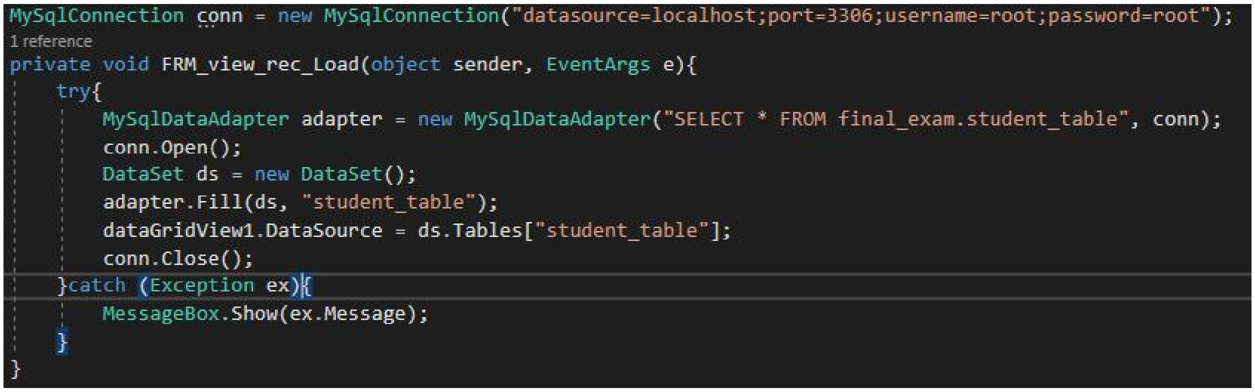
```
MySqlConnection conn = new MySqlConnection("datasource=localhost;port=3306;username=root;password=root");
1 reference
private void frm_insert_Load(object sender, EventArgs e){txtbx_id.Focus();}

1 reference
private void btn_insert_record_Click(object sender, EventArgs e){
    conn.Open();
    if (conn.State == ConnectionState.Open){
        int id = int.Parse(txtbx_id.Text);
        string first_name = txtbx_fname.Text;
        string last_name = txtbx_lname.Text;
        int age = int.Parse(txtbx_age.Text);
        string sql = "INSERT INTO `final_exam`.`student_table` (`student_id`, `student_first_name`, `student_last_name`, `student_age`)" +
            "VALUES " +"(" + id + ", '" + first_name + "', '" + last_name + "', " + age + ");";
        MySqlCommand cmd = new MySqlCommand(sql,conn);
        cmd.ExecuteNonQuery();
        txtbx_id.Clear();
        txtbx_fname.Clear();
        txtbx_lname.Clear();
        txtbx_age.Clear();
        conn.Close();
    }else{MessageBox.Show("Connection Failed");}
}
```

Update



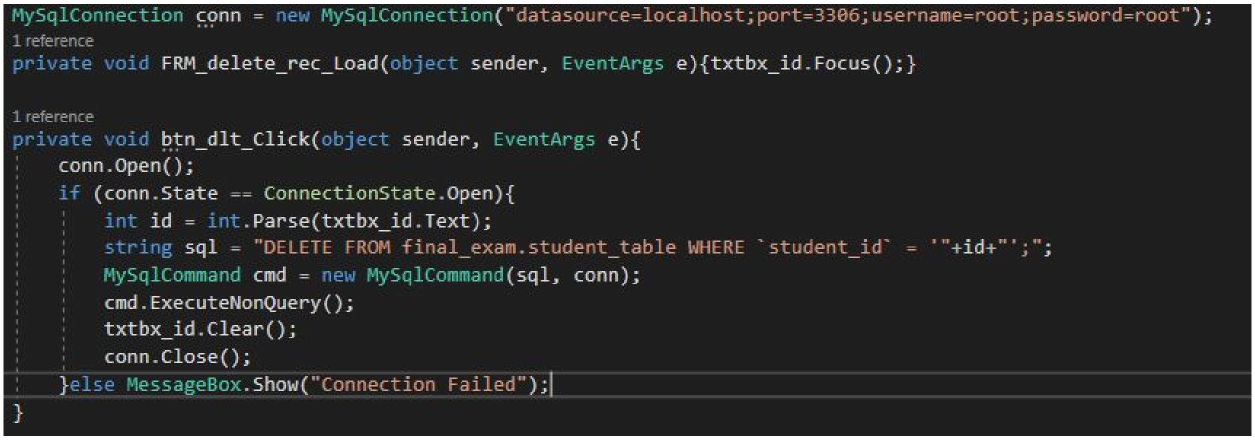
```
MySqlConnection conn = new MySqlConnection("datasource=localhost;port=3306;username=root;password=root");
1 reference
private void FRM_update_rec_Load(object sender, EventArgs e){txtbx_id.Focus();}
1 reference
private void btn_update_Click(object sender, EventArgs e){
    conn.Open();
    if(conn.State == ConnectionState.Open){
        int id = int.Parse(txtbx_id.Text);
        string first_name = txtbx_fname.Text;
        string last_name = txtbx_lname.Text;
        int age = int.Parse(txtbx_age.Text);
        string sql = "UPDATE `final_exam`.`student_table` SET `student_first_name` = '"+first_name+"', `student_last_name` = '"
            +last_name+"', `student_age`="+age+" WHERE (`student_id` = '" + id+"');";
        MySqlCommand cmd = new MySqlCommand(sql, conn);
        cmd.ExecuteNonQuery();
        txtbx_age.Clear();
        txtbx_fname.Clear();
        txtbx_id.Clear();
        txtbx_lname.Clear();
        conn.Close();
    }else MessageBox.Show("Connection Failed");
}
```

View



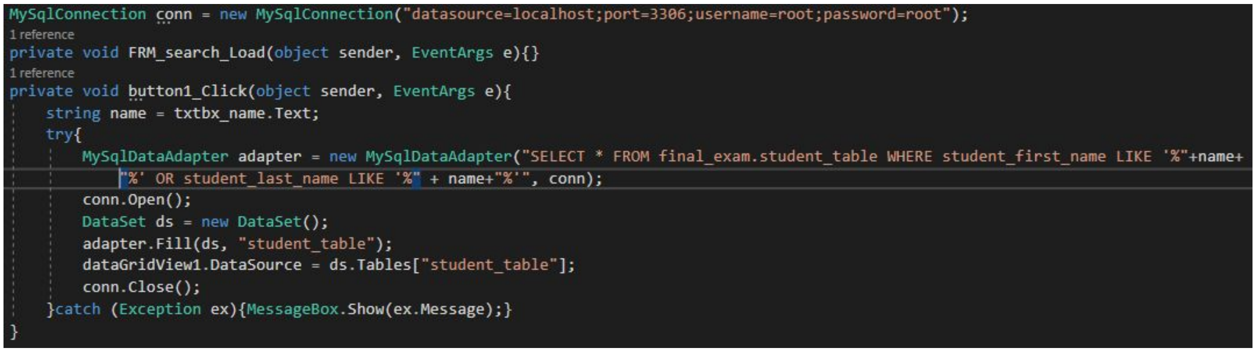
```
MySqlConnection conn = new MySqlConnection("datasource=localhost;port=3306;username=root;password=root");
1 reference
private void FRM_view_rec_Load(object sender, EventArgs e){
    try{
        MySqlDataAdapter adapter = new MySqlDataAdapter("SELECT * FROM final_exam.student_table", conn);
        conn.Open();
        DataSet ds = new DataSet();
        adapter.Fill(ds, "student_table");
        dataGridView1.DataSource = ds.Tables["student_table"];
        conn.Close();
    }catch (Exception ex){
        MessageBox.Show(ex.Message);
    }
}
```

Delete



```
MySqlConnection conn = new MySqlConnection("datasource=localhost;port=3306;username=root;password=root");
1 reference
private void FRM_delete_rec_Load(object sender, EventArgs e){txtbx_id.Focus();}

1 reference
private void btn_dlt_Click(object sender, EventArgs e){
    conn.Open();
    if (conn.State == ConnectionState.Open){
        int id = int.Parse(txtbx_id.Text);
        string sql = "DELETE FROM final_exam.student_table WHERE `student_id` = '"+id+"';";
        MySqlCommand cmd = new MySqlCommand(sql, conn);
        cmd.ExecuteNonQuery();
        txtbx_id.Clear();
        conn.Close();
    }else MessageBox.Show("Connection Failed");
}
```

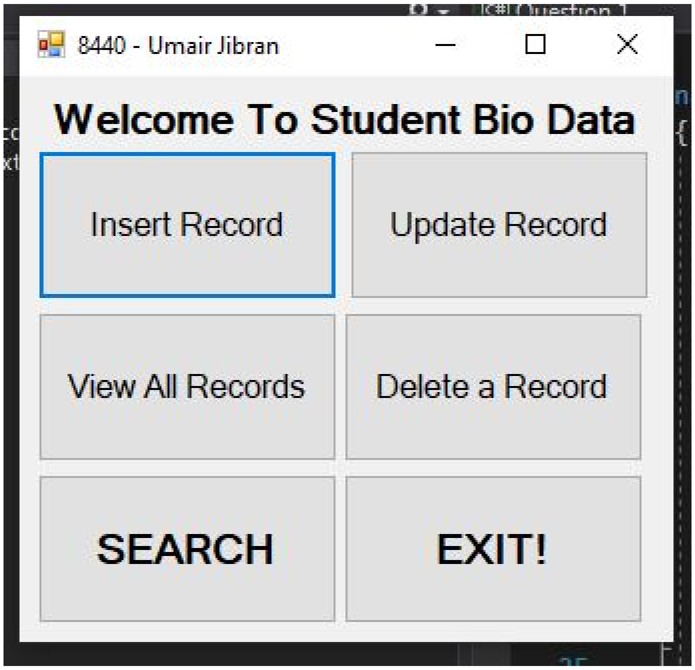
Search



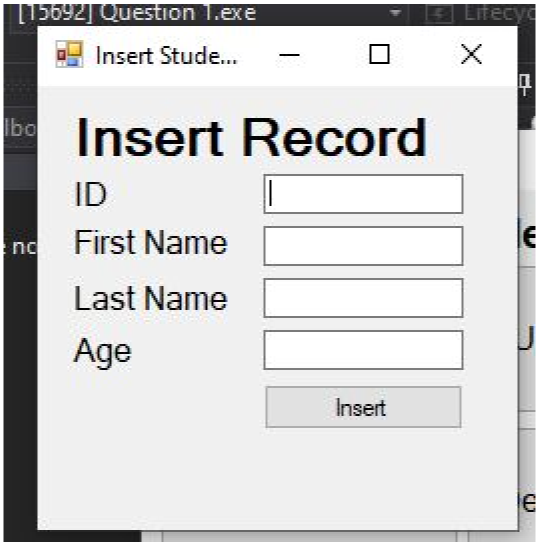
```
MySqlConnection conn = new MySqlConnection("datasource=localhost;port=3306;username=root;password=root");
1 reference
private void FRM_search_Load(object sender, EventArgs e){}
1 reference
private void button1_Click(object sender, EventArgs e){
    string name = txtbx_name.Text;
    try{
        MySqlDataAdapter adapter = new MySqlDataAdapter("SELECT * FROM final_exam.student_table WHERE student_first_name LIKE '%"+name+
            "%' OR student_last_name LIKE '%" + name+"%'", conn);
        conn.Open();
        DataSet ds = new DataSet();
        adapter.Fill(ds, "student_table");
        dataGridView1.DataSource = ds.Tables["student_table"];
        conn.Close();
    }catch (Exception ex){MessageBox.Show(ex.Message);}
}
```

Output

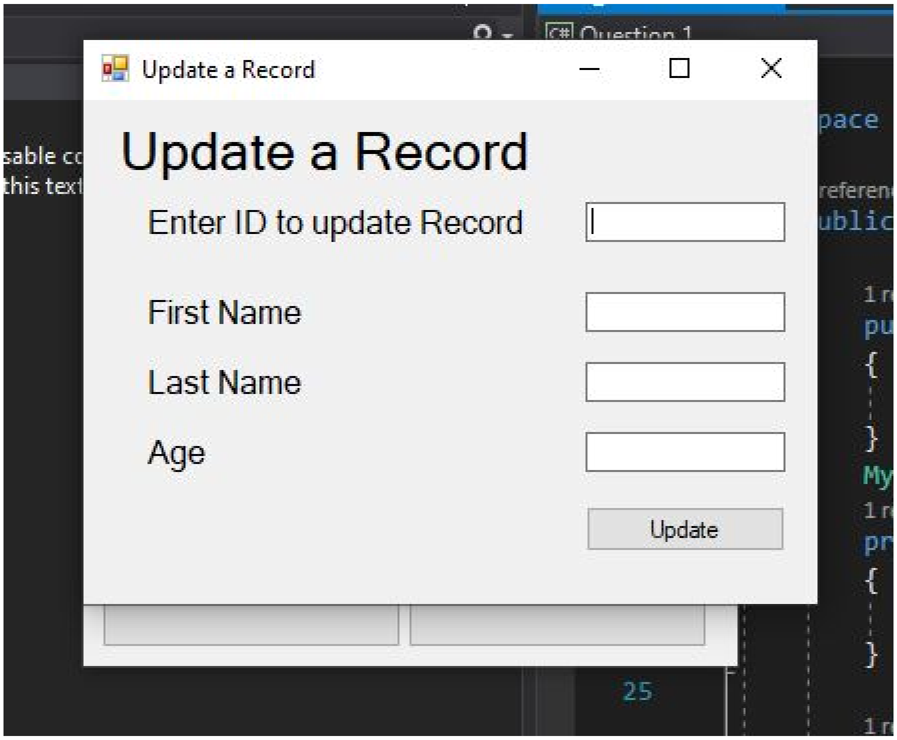
Main Form



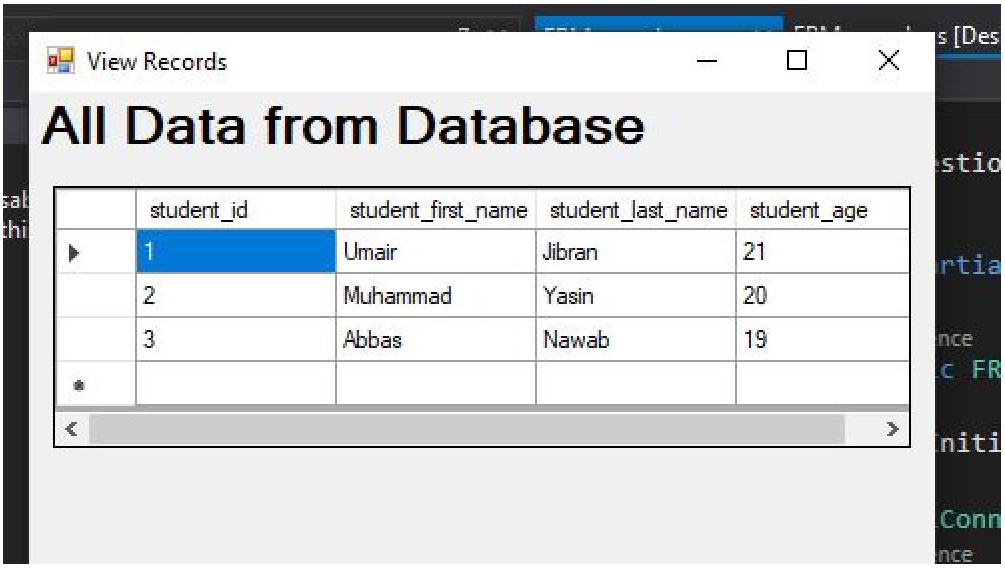
Insert



Update



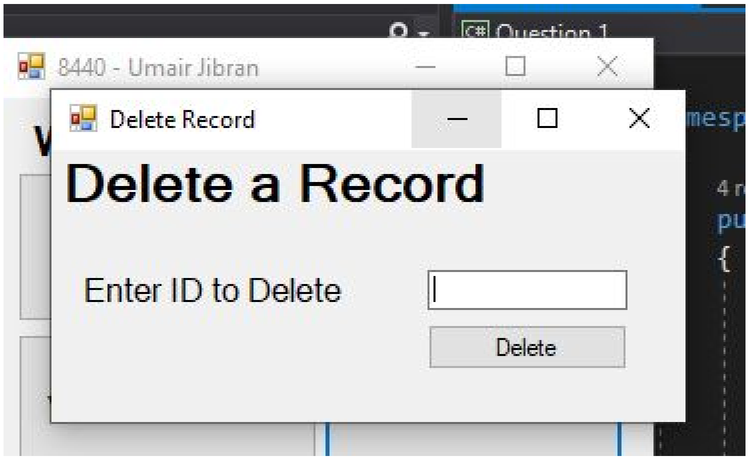
View



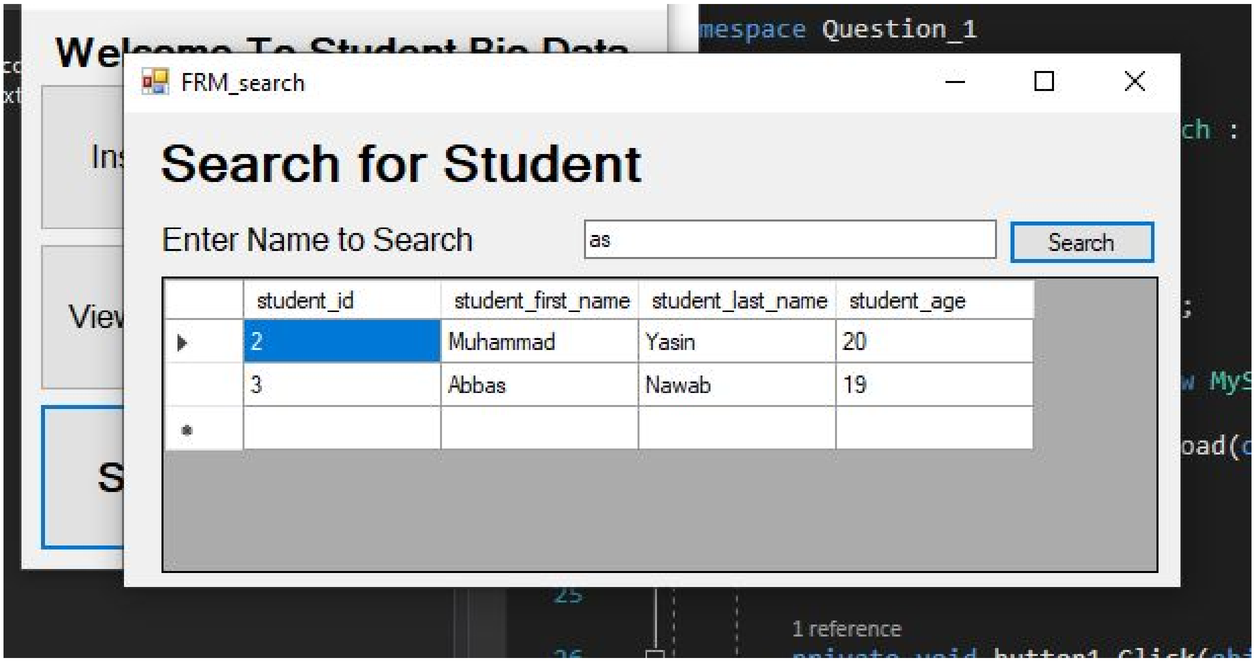
All Data from Database

	student_id	student_first_name	student_last_name	student_age
▸	1	Umair	Jibran	21
	2	Muhammad	Yasin	20
	3	Abbas	Nawab	19
*				

Delete



Search



Enter Name to Search: as

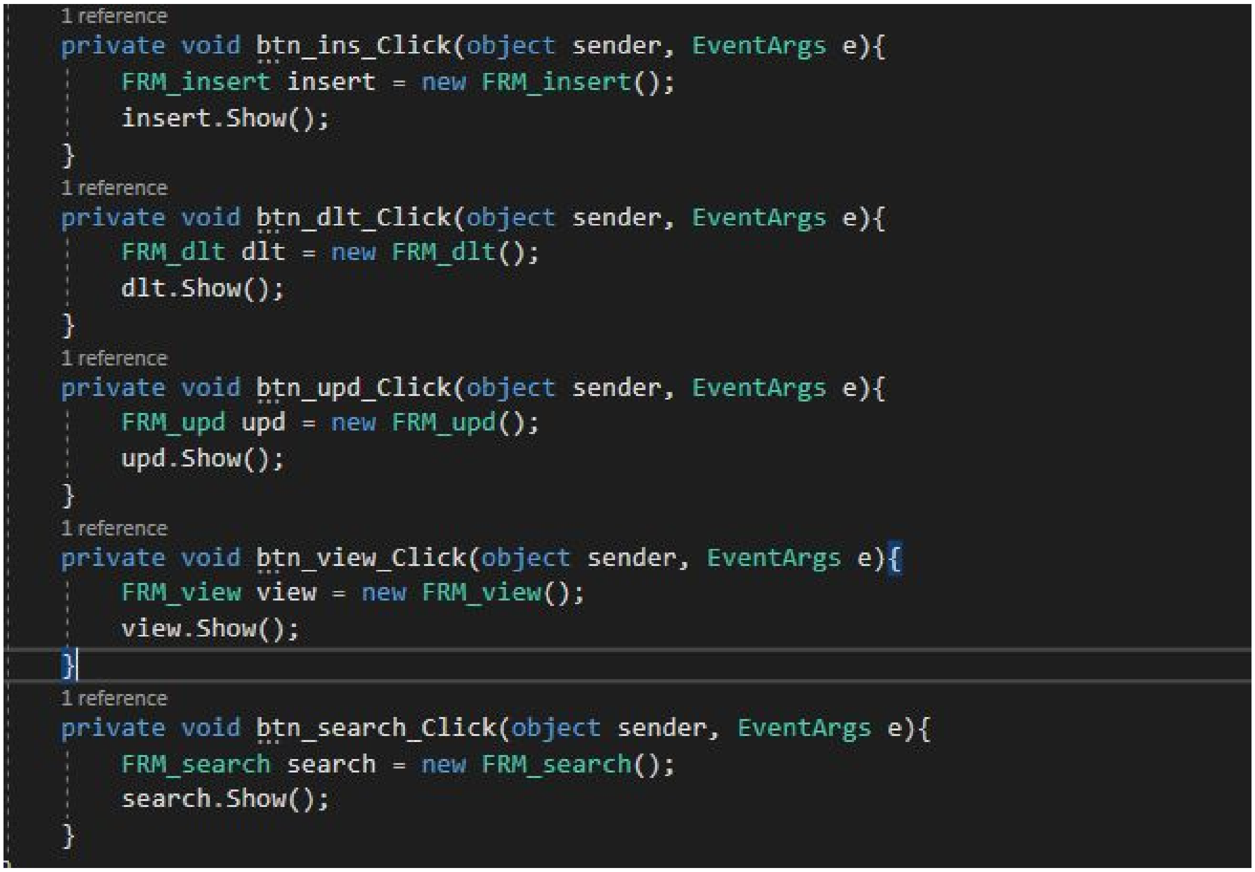
	student_id	student_first_name	student_last_name	student_age
▶	2	Muhammad	Yasin	20
	3	Abbas	Nawab	19
*				

Question 2

Stationary Management

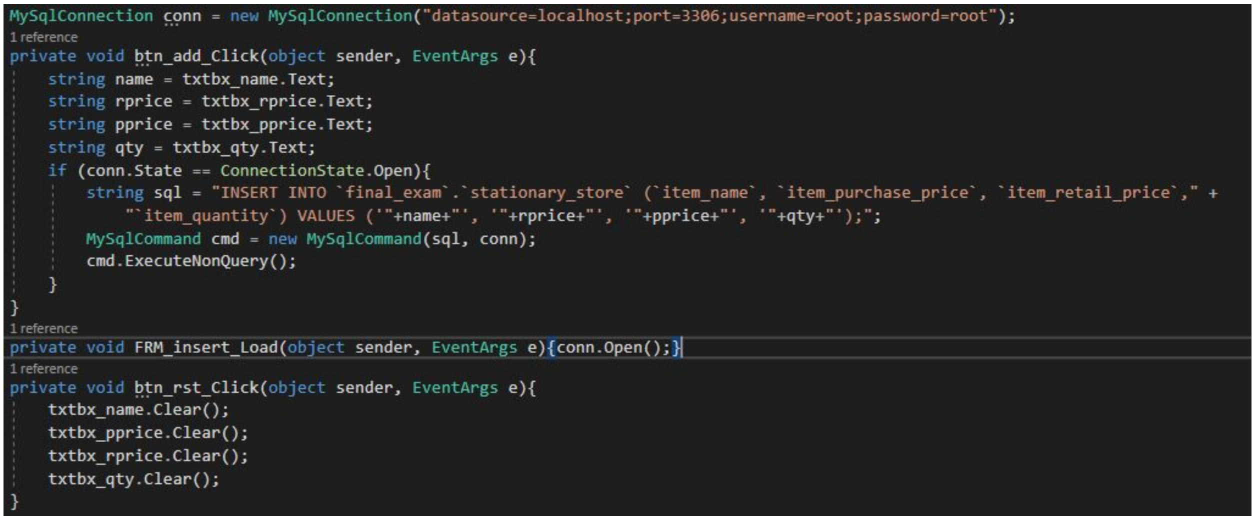
Source Code

Main Form



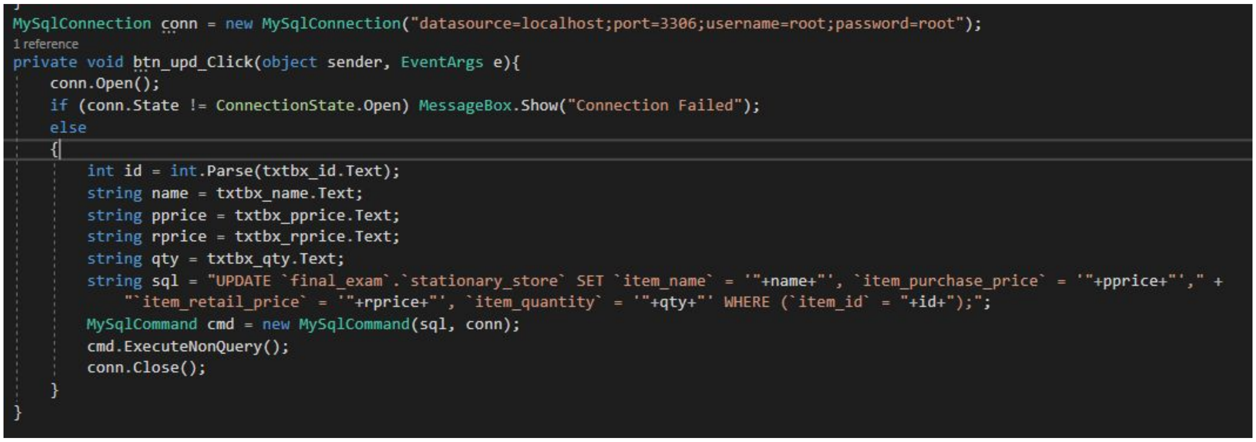
```
1 reference
private void btn_ins_Click(object sender, EventArgs e){
    FRM_insert insert = new FRM_insert();
    insert.Show();
}
1 reference
private void btn_dlt_Click(object sender, EventArgs e){
    FRM_dlt dlt = new FRM_dlt();
    dlt.Show();
}
1 reference
private void btn_upd_Click(object sender, EventArgs e){
    FRM_upd upd = new FRM_upd();
    upd.Show();
}
1 reference
private void btn_view_Click(object sender, EventArgs e){
    FRM_view view = new FRM_view();
    view.Show();
}
1 reference
private void btn_search_Click(object sender, EventArgs e){
    FRM_search search = new FRM_search();
    search.Show();
}
```

Insert



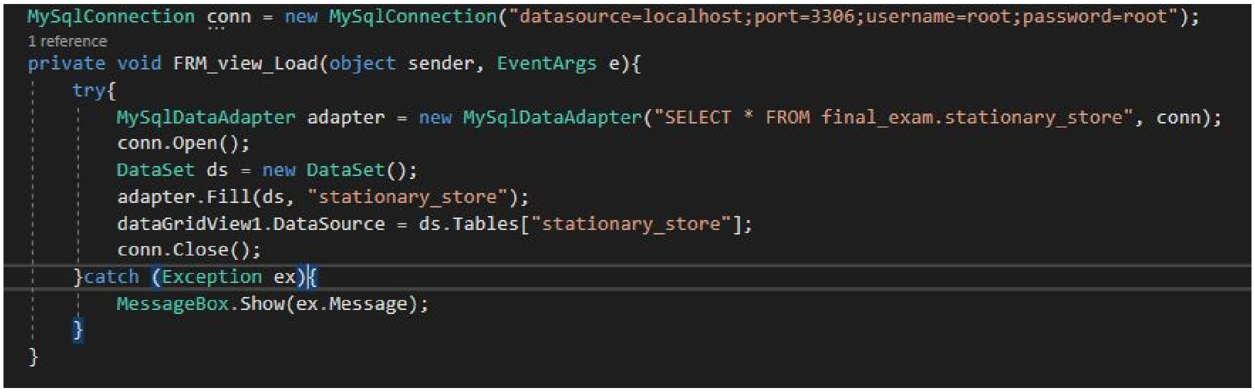
```
MySqlConnection conn = new MySqlConnection("datasource=localhost;port=3306;username=root;password=root");
1 reference
private void btn_add_Click(object sender, EventArgs e){
    string name = txtbx_name.Text;
    string rprice = txtbx_rprice.Text;
    string pprice = txtbx_pprice.Text;
    string qty = txtbx_qty.Text;
    if (conn.State == ConnectionState.Open){
        string sql = "INSERT INTO `final_exam`.`stationary_store` (`item_name`, `item_purchase_price`, `item_retail_price`," +
            "`item_quantity`) VALUES ('"+name+"', '"+rprice+"', '"+pprice+"', '"+qty+"');";
        MySqlCommand cmd = new MySqlCommand(sql, conn);
        cmd.ExecuteNonQuery();
    }
}
1 reference
private void FRM_insert_Load(object sender, EventArgs e){conn.Open();}
1 reference
private void btn_rst_Click(object sender, EventArgs e){
    txtbx_name.Clear();
    txtbx_pprice.Clear();
    txtbx_rprice.Clear();
    txtbx_qty.Clear();
}
```

Update



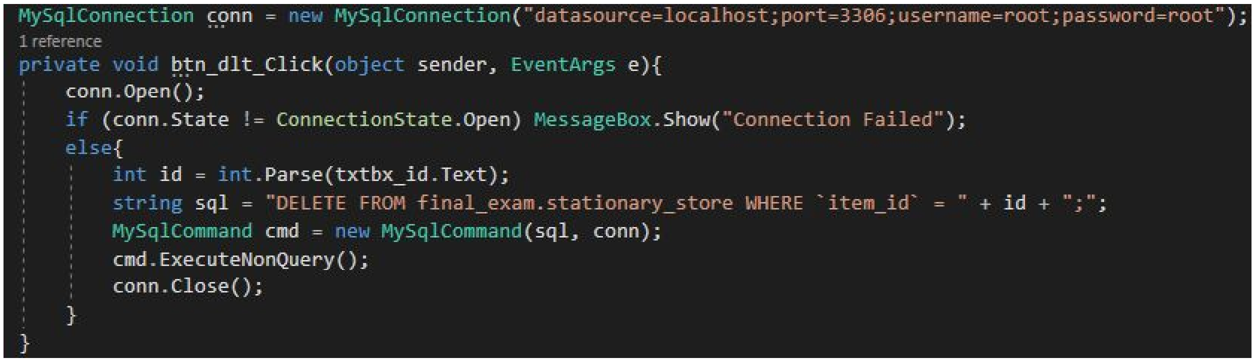
```
MySqlConnection conn = new MySqlConnection("datasource=localhost;port=3306;username=root;password=root");
1 reference
private void btn_upd_Click(object sender, EventArgs e){
    conn.Open();
    if (conn.State != ConnectionState.Open) MessageBox.Show("Connection Failed");
    else
    {
        int id = int.Parse(txtbx_id.Text);
        string name = txtbx_name.Text;
        string pprice = txtbx_pprice.Text;
        string rprice = txtbx_rprice.Text;
        string qty = txtbx_qty.Text;
        string sql = "UPDATE `final_exam`.`stationary_store` SET `item_name` = '"+name+"', `item_purchase_price` = '"+pprice+"'," +
            "`item_retail_price` = '"+rprice+"', `item_quantity` = '"+qty+"' WHERE (`item_id` = "+id+");";
        MySqlCommand cmd = new MySqlCommand(sql, conn);
        cmd.ExecuteNonQuery();
        conn.Close();
    }
}
```

View



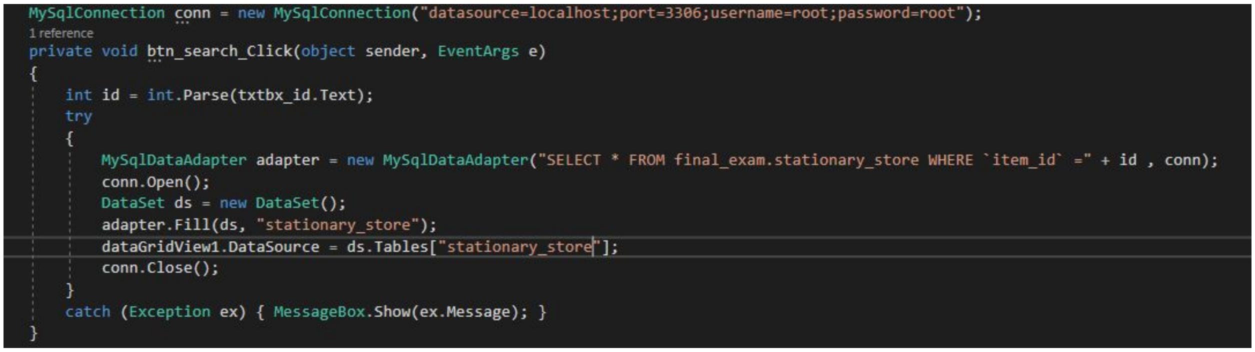
```
MySqlConnection conn = new MySqlConnection("datasource=localhost;port=3306;username=root;password=root");
1 reference
private void FRM_view_Load(object sender, EventArgs e){
    try{
        MySqlDataAdapter adapter = new MySqlDataAdapter("SELECT * FROM final_exam.stationary_store", conn);
        conn.Open();
        DataSet ds = new DataSet();
        adapter.Fill(ds, "stationary_store");
        dataGridView1.DataSource = ds.Tables["stationary_store"];
        conn.Close();
    }catch (Exception ex){
        MessageBox.Show(ex.Message);
    }
}
```

Delete



```
MySqlConnection conn = new MySqlConnection("datasource=localhost;port=3306;username=root;password=root");
1 reference
private void btn_dlt_Click(object sender, EventArgs e){
    conn.Open();
    if (conn.State != ConnectionState.Open) MessageBox.Show("Connection Failed");
    else{
        int id = int.Parse(txtbx_id.Text);
        string sql = "DELETE FROM final_exam.stationary_store WHERE `item_id` = " + id + ";";
        MySqlCommand cmd = new MySqlCommand(sql, conn);
        cmd.ExecuteNonQuery();
        conn.Close();
    }
}
```

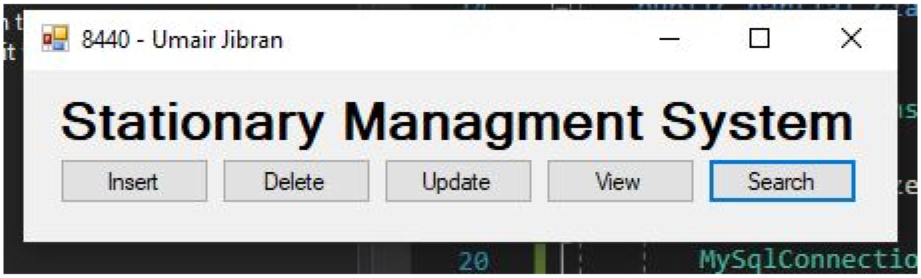
Search



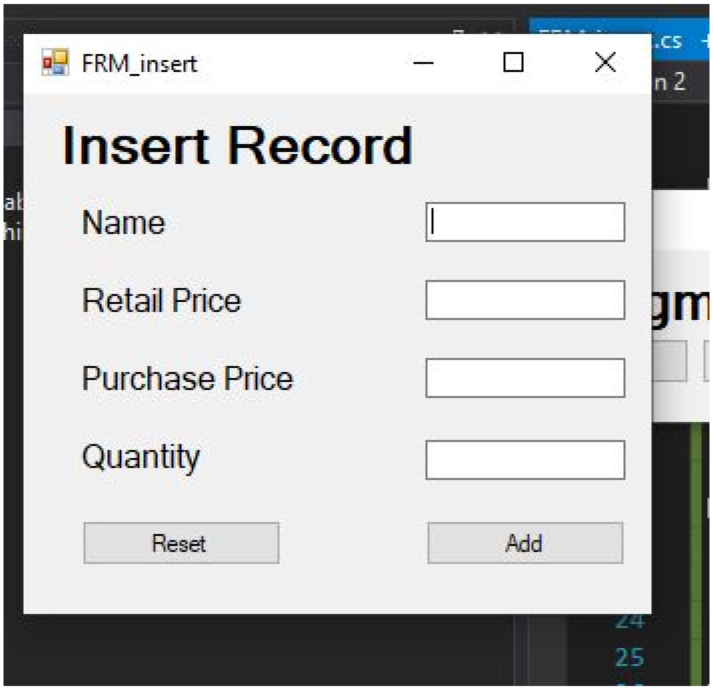
```
MySqlConnection conn = new MySqlConnection("datasource=localhost;port=3306;username=root;password=root");
1 reference
private void btn_search_Click(object sender, EventArgs e)
{
    int id = int.Parse(txtbx_id.Text);
    try
    {
        MySqlDataAdapter adapter = new MySqlDataAdapter("SELECT * FROM final_exam.stationary_store WHERE `item_id` =" + id , conn);
        conn.Open();
        DataSet ds = new DataSet();
        adapter.Fill(ds, "stationary_store");
        dataGridView1.DataSource = ds.Tables["stationary_store"];
        conn.Close();
    }
    catch (Exception ex) { MessageBox.Show(ex.Message); }
}
```

Output

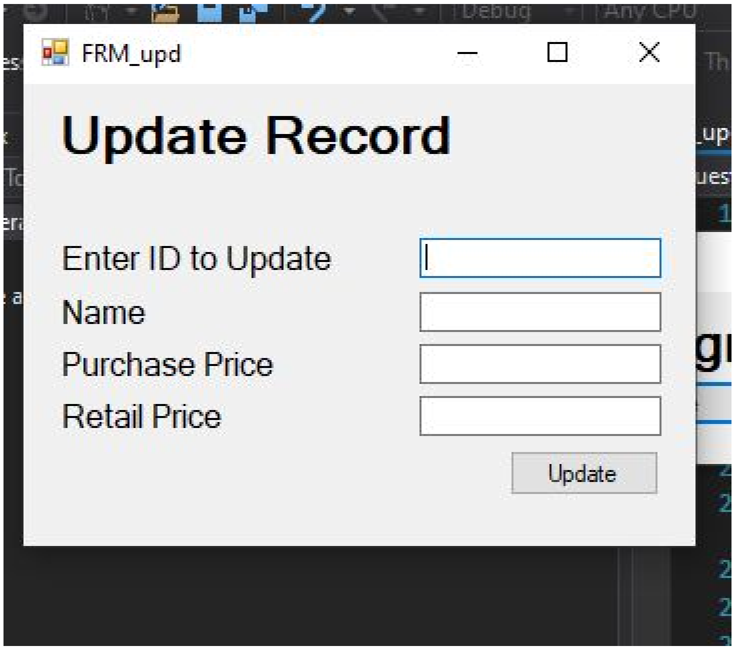
Main Form



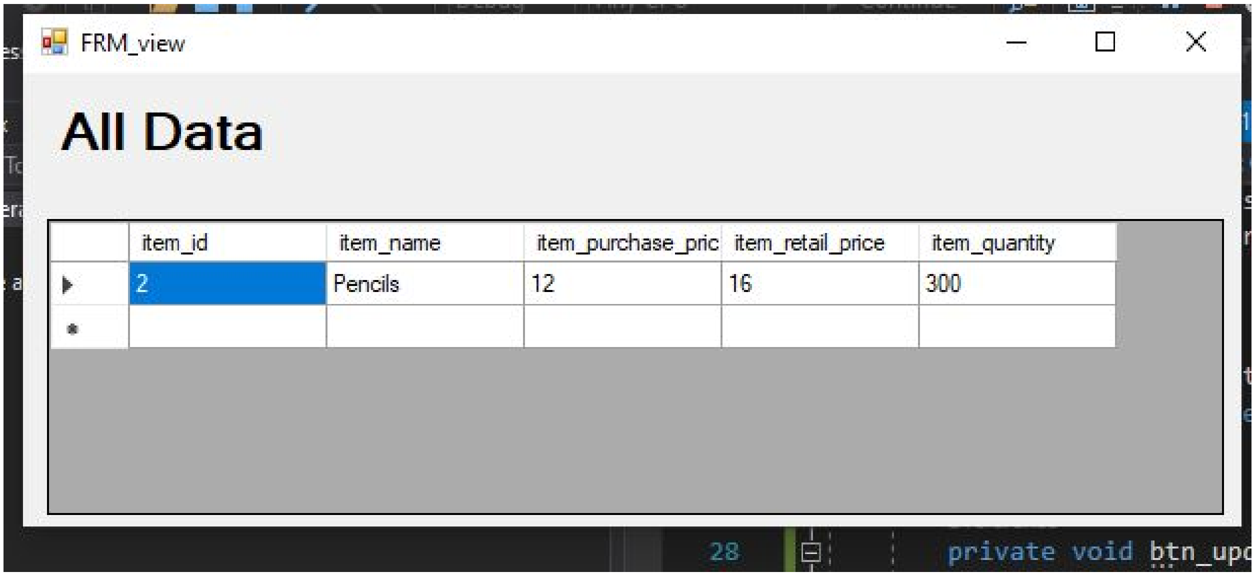
Insert



Update



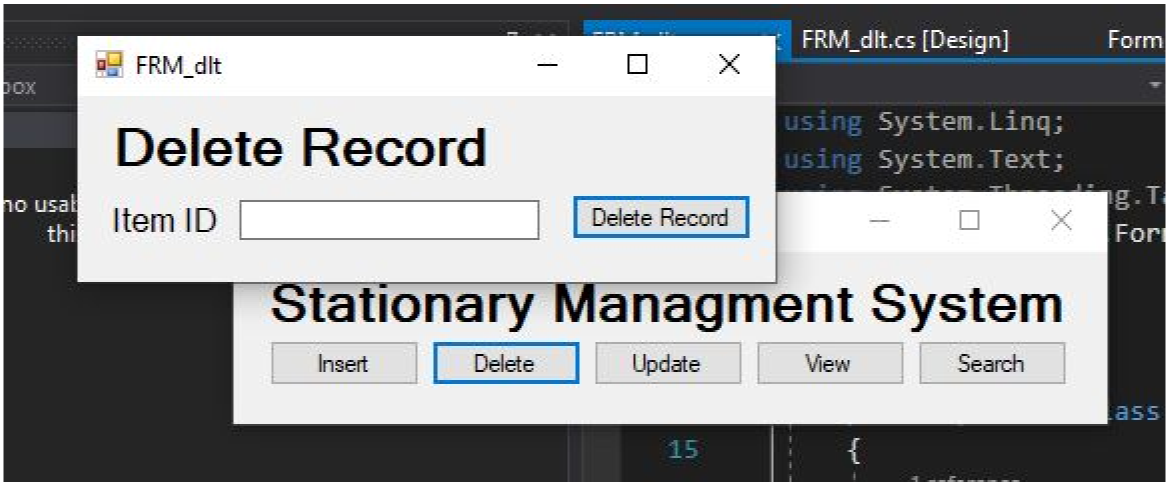
View



item_id	item_name	item_purchase_pric	item_retail_price	item_quantity
2	Pencils	12	16	300

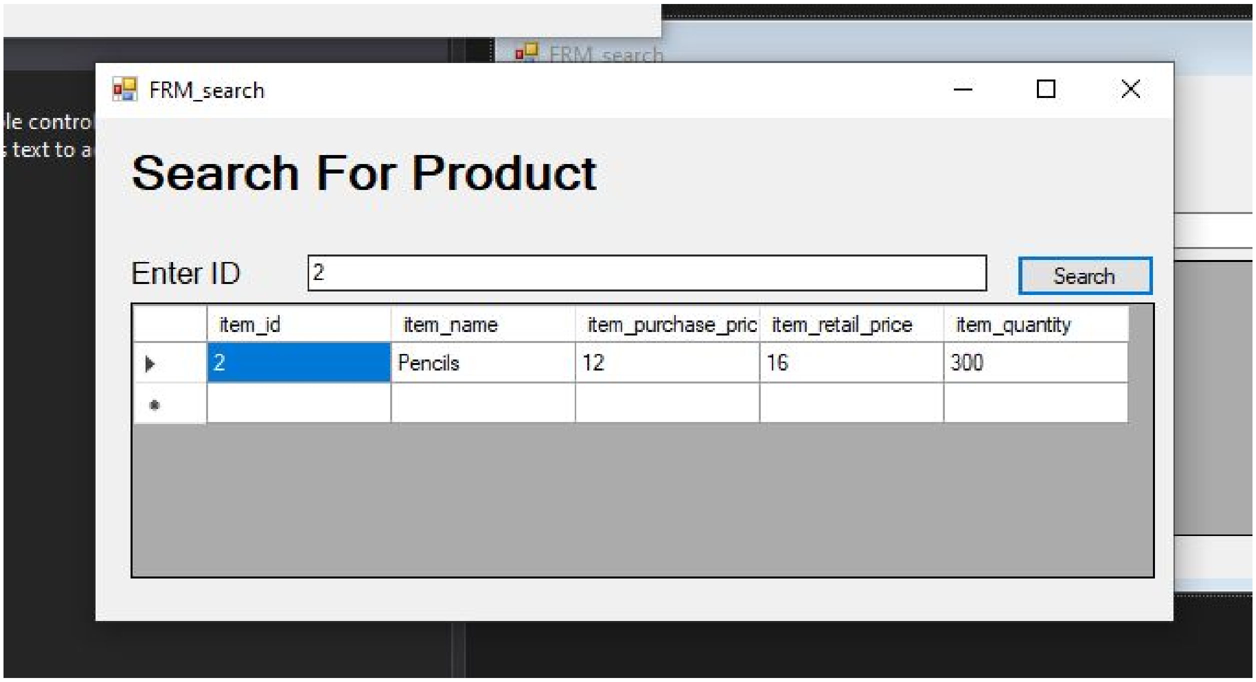
```
private void btn_upc
```

Delete



```
using System.Linq;
using System.Text;
```

Search

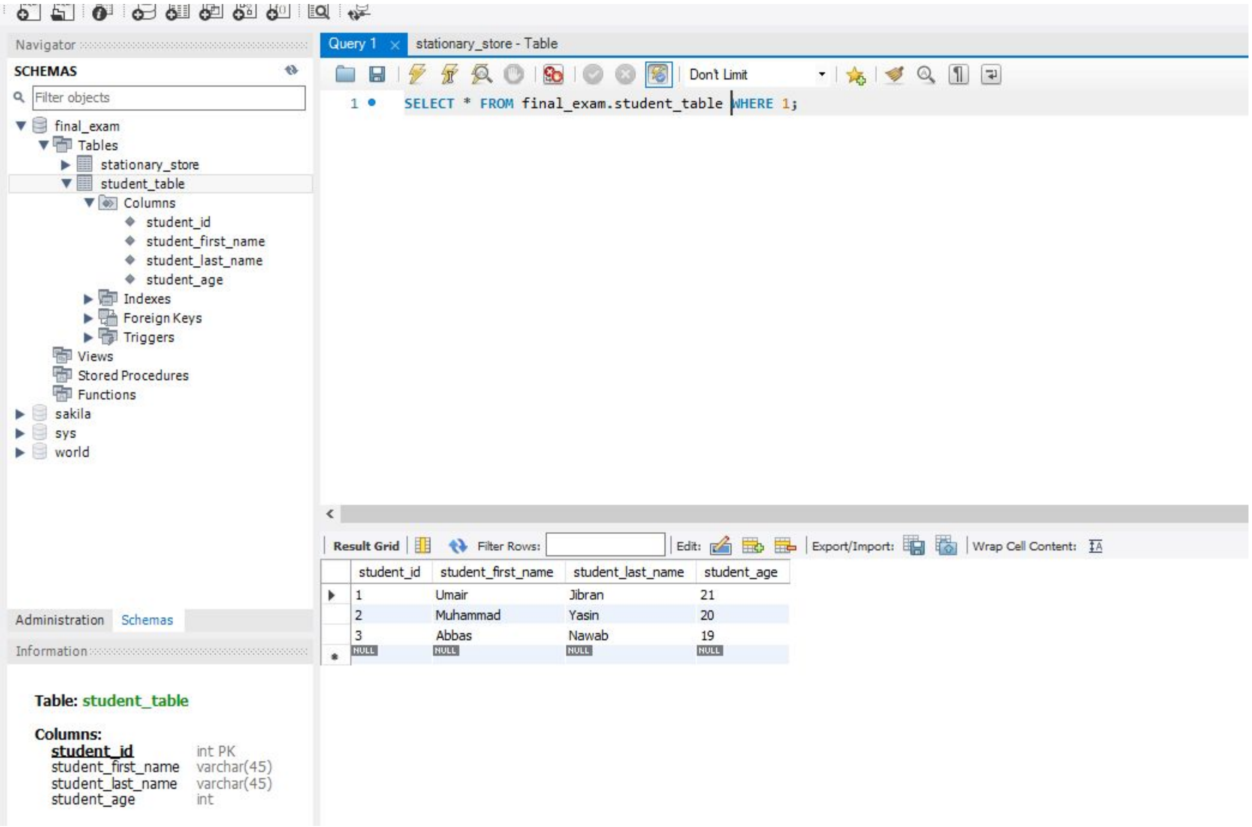


Enter ID 2

	item_id	item_name	item_purchase_pric	item_retail_price	item_quantity
▶	2	Pencils	12	16	300
*					

MYSQL Workbench Database

Students



```
SELECT * FROM final_exam.student_table WHERE 1;
```

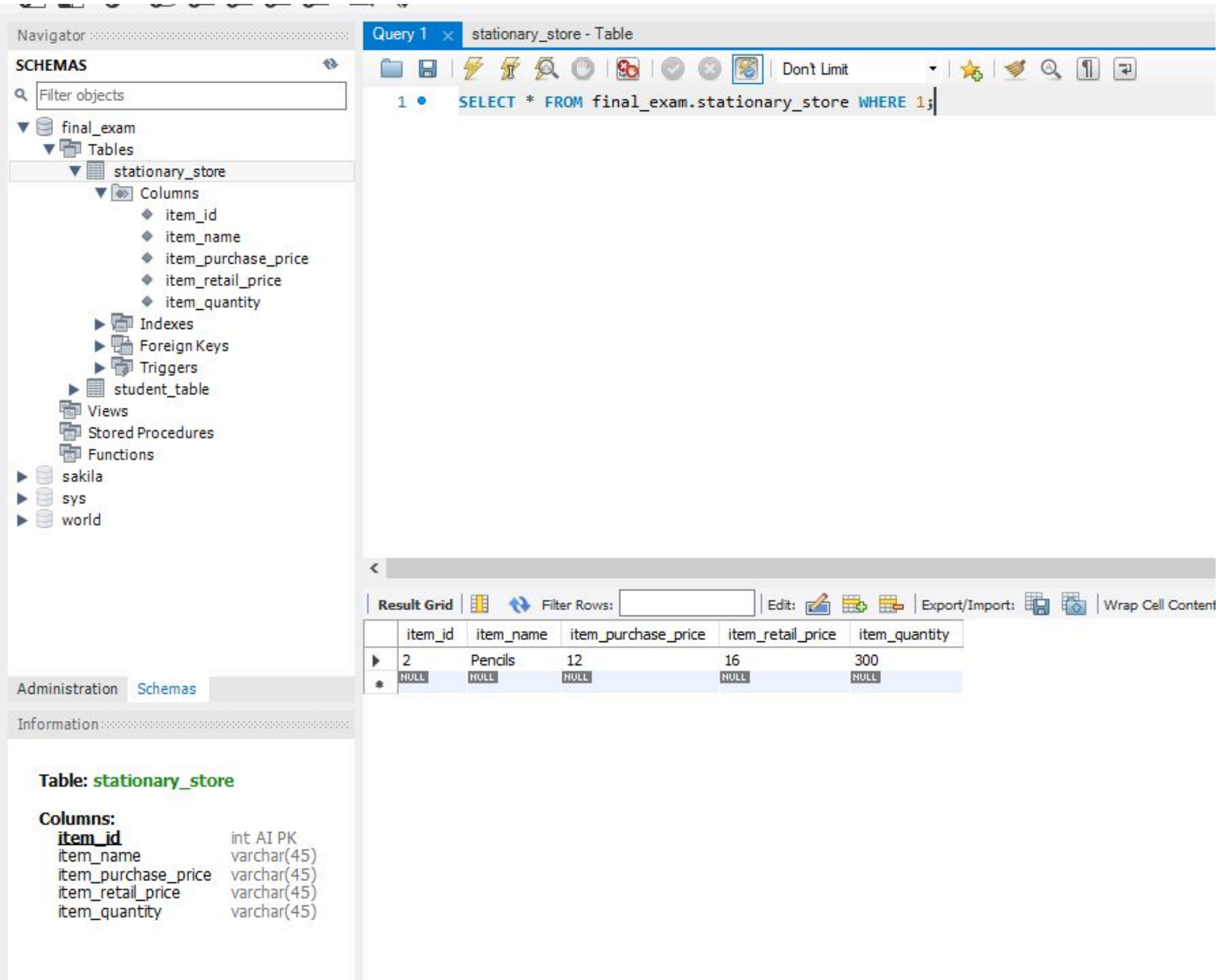
student_id	student_first_name	student_last_name	student_age
1	Umair	Jibran	21
2	Muhammad	Yasin	20
3	Abbas	Nawab	19
NULL	NULL	NULL	NULL

Table: student_table

Columns:

student_id	int PK
student_first_name	varchar(45)
student_last_name	varchar(45)
student_age	int

Stationary



```
SELECT * FROM final_exam.stationary_store WHERE 1;
```

item_id	item_name	item_purchase_price	item_retail_price	item_quantity
2	Pencils	12	16	300
NULL	NULL	NULL	NULL	NULL

Table: stationary_store

Columns:

item_id	int AI PK
item_name	varchar(45)
item_purchase_price	varchar(45)
item_retail_price	varchar(45)
item_quantity	varchar(45)