

Ex.No:12	DEVELOP A SIMPLE GUI BASED DATABASE APPLICATION
Date:	

AIM:

To develop a simple GUI based database application for Personal Information System.

DESCRIPTION:

Personal Information System is a project which stores information about a particular person. It allows to insert, delete, modify and clear the records. Records are updated in the database through forms.

DATABASE:

```
CREATE TABLE personaldetail
(
    pid INT PRIMARY KEY,
    name VARCHAR2(40),
    father VARCHAR2(40),
    DOB DATE,
    gender VARCHAR2(6),
    address VARCHAR2(200),
    mark NUMBER(3,0),
    mobile NUMBER(10,0),
    email VARCHAR2(20)
)
```

FORMS:

Personal Information System

Personal Number Search

Name

Father's Name

Date Of Birth

Gender ☐ Male ☐ Female

Address

Pass Percentage

Mobile

Email

Save Delete Modify Clear Exit

Activate Windows
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11:47 AM
9/27/2014

➔ TO INSERT THE RECORD CLICK SAVE

Personel Information System

Personal Information System

Personal Number

Name

Father's Name

Date Of Birth

Gender ☐ Male ☒ Female

Address

Pass Percentage

Mobile

Email

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11:49 AM
9/27/2014

➔ TO SEARCH ENTER THE PERSONAL NUMBER AND CLICK SEARCH

Personel Information System

Personal Information System

Personal Number

Name

Father's Name

Date Of Birth

Gender ☐ Male ☐ Female

Address

Pass Percentage

Mobile

Email

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11:52 AM
9/27/2014

➔ TO DELETE ENTER THE PERSONAL NUMBER AND CLICK DELETE

Personal Information System

Personal Number Search

Name

Father's Name

Date Of Birth

Gender ☐ Male ☐ Female

Address

Pass Percentage

Mobile

Email

Save Delete Modify Clear Exit

Activate Windows
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11:54 AM
9/27/2014

➔ TO MODIFY ENTER THE PERSONAL NUMBER AND CLICK SEARCH THEN PERFORM UPDATES AND CLICK MODIFY

Personel Information System

Personal Information System

Personal Number

Name

Father's Name

Date Of Birth

Gender ☐ Male ☐ Female

Address

Pass Percentage

Mobile

Email

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11:52 AM
9/27/2014

Personel Information System

Personal Information System

Personal Number

Name

Father's Name

Date Of Birth

Gender ☐ Male ☒ Female

Address

Pass Percentage

Mobile

Email

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11:59 AM
9/27/2014

➔ TO CLEAR THE BOX CLICK THE CLEAR BUTTON

Personel Information System

Personal Information System

Personal Number

Name

Father's Name

Date Of Birth

Gender ☐ Male ☒ Female

Address

Pass Percentage

Mobile

Email

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12:04 PM
9/27/2014

➔ AFTER CLICKING THE CLEAR BUTTON

Personel Information System

Personal Information System

Personal Number

Name

Father's Name

Date Of Birth

Gender ☐ Male ☐ Female

Address

Pass Percentage

Mobile

Email

Activate Windows
Go to PC settings to activate Windows.

11:47 AM
9/27/2014

➔ TO EXIT PRESS THE EXIT BUTTON

Personel Information System

Personal Number Search

Name

Father's Name

Date Of Birth

Gender ☐ Male ☐ Female

Address

Pass Percentage

Mobile

Email

Save Delete Modify Clear Exit

Activate Windows
Go to PC settings to activate Windows.

12:09 PM
9/27/2014

CODING:

```
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 Oracle.DataAccess.Client;
namespace PersonelInformationSystem
{
    public partial class Form1 : Form
    {
        public Form1()
        {
```

```

        InitializeComponent();
    }
//CONNECTIVITY CODING
    OracleConnection conn;
    private void Form1_Load(object sender, EventArgs e)
    {
        string oradb = "Data Source=XE;User Id=art;Password=123;";
        conn = new OracleConnection(oradb);
        conn.Open();
    }
//CLEAR FUNCTION
    private void Clear()
    {
        txtPID.Text = "";
        txtName.Text = "";
        txtFather.Text = "";
        txtDOB.Text = "";
        rdoMale.Checked = false;
        rdoFemale.Checked = false;
        txtAddress.Text = "";
        txtMark.Text = "";
        txtMobile.Text = "";
        txtEmail.Text = "";
    }
//INSERTION CODING
    // Do NOT change the order of the parameter and values
    private void btnSave_Click(object sender, EventArgs e)
    {
        string gender = " ";
        if (rdoMale.Checked)
        {
            gender = "Male";
        }
        else if (rdoFemale.Checked)
        {
            gender = "Female";
        }
        DateTime dt = Convert.ToDateTime(txtDOB.Text);
        string sql = "INSERT INTO sankar.personaldetail (pid,name,father,dob,gender,address,mark,mobile,email) VALUES (:pid,:name,:father,:dob,:gender,:address,:mark,:mobile,:email)";
        OracleCommand cmd = new OracleCommand(sql, conn);
        cmd.Parameters.Add("pid", txtPID.Text);
        cmd.Parameters.Add("name", txtName.Text);
        cmd.Parameters.Add("father", txtFather.Text);
    }

```

```

cmd.Parameters.Add("dob", dt);
cmd.Parameters.Add("gender", gender);
cmd.Parameters.Add("address", txtAddress.Text);
cmd.Parameters.Add("mark", txtMark.Text);
cmd.Parameters.Add("mobile", txtMobile.Text);
cmd.Parameters.Add("email", txtEmail.Text);
cmd.ExecuteNonQuery();
MessageBox.Show("inserted sucessfully");
Clear();
}
//UPDATION CODING
// Do NOT change the order of the parameter and values
private void btnEdit_Click(object sender, EventArgs e)
{
    string gen = " ";
    if (rdoMale.Checked)
    {
        gen = rdoMale.Text;
    }
    else if (rdoFemale.Checked)
    {
        gen = rdoFemale.Text;
    }
    DateTime dt = Convert.ToDateTime(txtDOB.Text);

    string sql = "UPDATE sankar.personaldetail SET
    name=:name,father=:father,dob=:dob,gender=:gender,address=:address,mark=:mark,
    mobile=:mobile,email=:email WHERE pid=:pid";
    OracleCommand cmd = new OracleCommand(sql, conn);
    cmd.Parameters.Add("name", txtName.Text);
    cmd.Parameters.Add("father", txtFather.Text);
    cmd.Parameters.Add("dob", dt);
    cmd.Parameters.Add("gender", gen);
    cmd.Parameters.Add("address", txtAddress.Text);
    cmd.Parameters.Add("mark", txtMark.Text);
    cmd.Parameters.Add("mobile", txtMobile.Text);
    cmd.Parameters.Add("email", txtEmail.Text);
    cmd.Parameters.Add("pid", txtPID.Text);
    cmd.ExecuteNonQuery();
    MessageBox.Show("Updated successfully");
    Clear();
}
//DELETION CODING
private void btnDelete_Click(object sender, EventArgs e)

```

```

    {
        OracleCommand cmd = new OracleCommand("DELETE FROM sankar.personaldetail
WHERE
        pid=:pid", conn);
        cmd.Parameters.Add("pid", txtPID.Text);
        cmd.ExecuteNonQuery();
        MessageBox.Show("Message deleted succesfully");
        Clear();
    }
//CLEAR CODING
private void btnClear_Click(object sender, EventArgs e)
{
    Clear();
}
//SEARCH CODING
private void btnSearch_Click(object sender, EventArgs e)
{
    OracleCommand cmd = new OracleCommand("SELECT * FROM sankar.personaldetail
WHERE
        pid=:pid1", conn);
    cmd.Parameters.Add("pid1", txtPID.Text);
    OracleDataReader dr = cmd.ExecuteReader();

    if (dr.Read())
    {
        txtPID.Text = dr["pid"].ToString();
        txtName.Text = dr["name"].ToString();
        txtFather.Text = dr["father"].ToString();
        txtDOB.Text = dr["dob"].ToString();
        if (dr["gender"].ToString() == "Male")
        {
            rdoMale.Checked = true;
        }
        else
        {
            rdoFemale.Checked = true;
        }
        txtAddress.Text = dr["address"].ToString();
        txtMark.Text = dr["mark"].ToString();
        txtMobile.Text = dr["mobile"].ToString();
        txtEmail.Text = dr["email"].ToString();
    }
    else
    {
        MessageBox.Show("Record not found ");
    }
}
//EXIT CODING
private void btnExit_Click(object sender, EventArgs e)

```

```
{  
    Close();    }    } }
```

RCET

RESULT:

Thus the Coding was executed successfully.