Lab no 06

Internet Application Development

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Consider Pine Valley Furniture Company database schema.

Develop an application for following functionalities:

1) **Develop a page that allows user to register as a new customer.**

ASPX CODE

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="AccountCreation.aspx.vb"
Inherits="lab07_AccountCreation" %>
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            width: 1313px;
            height: 686px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="auto-style1" style="background-color: #0CF3B8">
            <br />
            <br />
              &nbsp
;              &nbs
p;              &nb
sp;              &n
bsp;    ACCOUNT CREATION
            <br />
            <br />
              &nbsp
;              &nbs
p;              &nb
sp;            Customer Name :
            <asp:TextBox ID="CustomerNameTextBox" runat="server"></asp:TextBox>
            <br />
              &nbsp
;              &nbs
p;         
            <br />
              &nbsp
;              &nbs
p;              &nb
sp;        Customer Address :
            <asp:TextBox ID="CustomerAddressTextBox" runat="server"></asp:TextBox>
            <br />
              &nbsp
;              &nbs
p;              &nb
sp;          
            <br />
```

```
              &nbsp
;              &nbs
p;              &nb
sp;              
Customer City :
            <asp:TextBox ID="CustomerCityTextBox" runat="server"></asp:TextBox>
            <br />
              &nbsp
;              &nbs
p;              &nb
sp;           
            <br />
              &nbsp
;              &nbs
p;              &nb
sp;             Customer
State :
            <asp:TextBox ID="CustomerSateTextBox" runat="server"></asp:TextBox>
            <br />
            <br />
              &nbsp
;              &nbs
p;              &nb
sp;              &n
bsp;   Postal Code :
            <asp:TextBox ID="CustomerPostalCodeTextBox" runat="server"></asp:TextBox>
            <br />
            <br />
              &nbsp
;              &nbs
p;              &nb
sp;              &n
bsp;       username :
            <asp:TextBox ID="UsernameTextBox" runat="server" ></asp:TextBox>
            <br />
            <br />
              &nbsp
;              &nbs
p;              &nb
sp;              &n
bsp;       password : 
            <asp:TextBox ID="PaswordTextBox" runat="server"></asp:TextBox>
     
            <br />
            <asp:Label ID="Label1" runat="server" Text="Label"
Visible="False"></asp:Label>
            <br />
            <br />
              &nbsp
;              &nbs
p;              &nb
sp;              &n
bsp;              &
nbsp;
            <asp:Button ID="CreateAccountButton" runat="server" Text="Create Account" />
            <br />
            <br />
```

```
             &nbsp
;              &nbs
p;              &nb
sp;       
            <br />
            <br />
   
        </div>
    </form>
</body>
</html>
```

VB.NET

```vb
Imports System.Data.SqlClient
Imports System.Reflection.Emit
Partial Class lab07_AccountCreation
    Inherits System.Web.UI.Page
    Dim CustID As Integer
    Dim myConnectionStr As String = "Data Source=AHMED;Initial Catalog=pvfc;Integrated
Security=True"
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles
Me.Load
        Dim myQuery As String = "SELECT CUSTOMER_ID FROM CUSTOMER_T WHERE CUSTOMER_ID =
(SELECT MAX(CUSTOMER_ID) FROM CUSTOMER_t) "

        Dim MyConn As New SqlConnection(myConnectionStr)
        Dim myCommand As New SqlCommand(myQuery, MyConn)
        Dim reader As SqlDataReader

        Try
            MyConn.Open()
            reader = myCommand.ExecuteReader()

            reader.Read()
            CustID = Convert.ToInt32(reader("CUSTOMER_ID"))
            reader.Close()
        Catch ex As Exception
            Label1.Text = "Error occured : "
            Label1.Text &= ex.Message
            Label1.Visible = True
        Finally
            MyConn.Close()

        End Try
    End Sub

    Protected Sub CreateAccountButton_Click(sender As Object, e As EventArgs) Handles
CreateAccountButton.Click

        CustID += 1

        Dim insertComm As String = "INSERT INTO CUSTOMER_t ( CUSTOMER_Id , Customer_Name
, Customer_Address, Customer_City ,Customer_State ,Postal_Code , username ,passwords)"
        insertComm &= "VALUES ( @CUSTOMER_Id , @Customer_Name ,@Customer_Address ,
@Customer_City , @Customer_State ,@Postal_Code  ,@username , @passwords )"
```
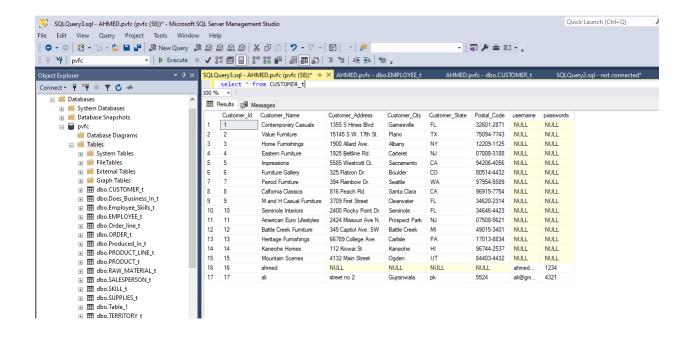
```vbnet
        Dim myConn As New SqlConnection(myConnectionStr)
        Dim myComm As New SqlCommand(insertComm, myConn)

        myComm.Parameters.AddWithValue("@CUSTOMER_Id", CustID)
        myComm.Parameters.AddWithValue("@Customer_Name", CustomerNameTextBox.Text)
        myComm.Parameters.AddWithValue("@Customer_Address ", CustomerAddressTextBox.Text)
        myComm.Parameters.AddWithValue("@Customer_City ", CustomerCityTextBox.Text)
        myComm.Parameters.AddWithValue("@Customer_State", CustomerSateTextBox.Text)
        myComm.Parameters.AddWithValue("@Postal_Code ", CustomerPostalCodeTextBox.Text)
        myComm.Parameters.AddWithValue("@username", UsernameTextBox.Text)
        myComm.Parameters.AddWithValue("@passwords ", PaswordTextBox.Text)

        Try
            myConn.Open()
            myComm.ExecuteNonQuery()
            MsgBox("Registration successful!")
        Catch ex As Exception
            MsgBox("An error occurred: " & ex.Message)

        Finally
            myConn.Close()
        End Try
    End Sub
End Class
```

OUTPUT

ACCOUNT CREATION

Customer Name : ali

Customer Address : street no 2

Customer City : Gujranwala

Customer State : pk

Postal Code : 5524

username : ali@gmail.com

password : 4321

Create Account

Develop a page to allows user to login.

Aspx code

```vb
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="loginPage.aspx.vb"
Inherits="lab07_loginPage" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        body {
            background-color: #f8f8f8;
            font-family: Arial, sans-serif;
        }
        h1 {
          font-size: 36px;
          font-weight: bold;
          text-align: center;
          color: #333333;
          margin-top: 50px;
          transition: color 0.3s ease;
          cursor: pointer;
    }
        .auto-style1 {
            width: 50%;
            max-width: 1178px;
            height: 100%;
            margin: 0 auto;
            padding: 60px;
```

```
                background-color: #c4fcff;
                box-sizing: border-box;
            }
        label {
                display: block;
                margin-bottom: 10px;
                color: #333;
                font-size: 16px;
            }
        input[type="text"],
        input[type="password"],
        input[type="email"] {
                display: block;
                width: 60%;
                padding: 10px;
                margin-bottom: 20px;
                border: 1px solid #ccc;
                border-radius: 4px;
                box-sizing: border-box;
                font-size: 16px;
            }
        input[type="submit"] {
                display: block;
                width: 100%;
                max-width: 200px;
                margin: 0 auto;
                padding: 10px;
                background-color:#000000;
                color: #fff;
                border: none;
                border-radius: 4px;
                font-size: 16px;
                cursor: pointer;
            }
        input[type="submit"]:hover {
                background-color: #006B8F;
            }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <h1>Log in </h1>
        </div>

        <div class="auto-style1">
            <label for="emailTextBox"><strong>Username/Email:</strong></label>
            <asp:TextBox ID="emailTextBox" runat="server" ></asp:TextBox>
            <br />
            <label for="passwordTextBox"><strong>Password:</strong></label>
            <asp:TextBox ID="passwordTextBox" runat="server"
TextMode="Password"></asp:TextBox>
            <br />
            <asp:Label ID="incorrectUserPasswordLabel" runat="server" ForeColor="#CC3300"
Text="'incorrect username/password '" Visible="False"></asp:Label>
            <br />
            <br />
            <asp:Button ID="loginButton" runat="server" Text="Login" />
```

```
            <br />
            <br />
            <asp:Button ID="Button2" runat="server" Text="Create an Account"
OnClick="Button2_Click" />
        </div>
    </form>
</body>
```

VB.NET

```vb
Imports System.Data.SqlClient
Partial Class lab07_loginPage
    Inherits System.Web.UI.Page
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles
Me.Load

    End Sub

    Protected Sub loginButton_Click(sender As Object, e As EventArgs) Handles
loginButton.Click
        Dim connStr As String = "Data Source=AHMED;Initial Catalog=pvfc;Integrated
Security=True"

        Dim varifyCustomerQuery As String = "SELECT Customer_Id    FROM CUSTOMER_t "
        varifyCustomerQuery &= "WHERE CUSTOMER_t.username = '" & emailTextBox.Text & "'
AND CUSTOMER_t.passwords= '" & passwordTextBox.Text & "'   "

        Dim varifyEmployee As String = "SELECT EMPLOYEE_ID FROM EMPLOYEE_t "
        varifyEmployee &= "WHERE EMPLOYEE_t.username = '" & emailTextBox.Text & "' AND
EMPLOYEE_t.passwords= '" & passwordTextBox.Text & "'"


        Dim Myconnection As New SqlConnection(connStr)
        Dim commandCustomer As New SqlCommand(varifyCustomerQuery, Myconnection)
        Dim commandEmployee As New SqlCommand(varifyEmployee, Myconnection)

        Dim readerCustomerId As SqlDataReader
        Dim readerEmplyeeId As SqlDataReader

        Myconnection.Open()

        readerCustomerId = commandCustomer.ExecuteReader()
        Try



            readerCustomerId.Read()
            Dim customer_id As String = readerCustomerId("Customer_Id")
            If (Not customer_id Is Nothing) Then
                Response.Redirect("customer_interface.aspx?MYCustomer_id=" + customer_id)


            End If
            readerCustomerId.Close()
```

```vb
        Catch ex As Exception
            readerCustomerId.Close()

            readerEmplyeeId = commandEmployee.ExecuteReader()

            Try
                readerEmplyeeId.Read()
                Dim MyEmployee_id As String = readerEmplyeeId("Employee_id")

                If (Not MyEmployee_id Is Nothing) Then
                    Server.Transfer("employe_interface.aspx")


                End If
                readerEmplyeeId.Close()



            Catch qx As Exception
                readerEmplyeeId.Close()

                Try
                    incorrectUserPasswordLabel.Visible = True
                Catch vx As Exception
                    incorrectUserPasswordLabel.Text = "Error occured "
                    incorrectUserPasswordLabel.Text &= vx.Message
                    incorrectUserPasswordLabel.Visible = True
                End Try

            End Try



        Finally

            Myconnection.Close()

        End Try



    End Sub

    Protected Sub Button2_Click(sender As Object, e As EventArgs)
        Response.Redirect("AccountCreation.aspx")
    End Sub
End Class
```

Output

Develop a page to add new products.

Aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="customer_interface.aspx.vb"
Inherits="lab07_customer_interfac" %>


<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            width: 1556px;
            height: 871px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="auto-style1" style="background-color: #F51854">

             Search Product :
            <asp:TextBox ID="SearchTextBox" runat="server" Height="22px" Width="186px"
></asp:TextBox>
 <asp:Button ID="ProdSearchButton" runat="server" Text="Search" style="height: 35px"
/>
```

```
             
            <br />
            <asp:GridView ID="GridView1" runat="server">
</asp:GridView>

                
;              &nbs
p;              &nb
sp;              &n
bsp;              &
nbsp;              
              &nbsp
;              &nbs
p;              &nb
sp;         
            <br />
            <br />
            <br />


                <div id="prodDetails" runat="server" >

                       <asp:Label ID="ProductDetailLabel" runat="server"
Text="Product Detaills" Visible="False"></asp:Label>

               
;              &nbs
p;              &nb
sp;              &n
bsp;              &
nbsp;          
            <asp:Button ID="AddToCartButton" runat="server" Text="Add To Cart"
Enabled="False" />
                    <br />
                    <br />

                <div id ="ConfirmOrderDiv" runat ="server" visible ="false">

                    Quantity : <asp:TextBox ID="QuantityTextBox"
runat="server"></asp:TextBox>
               
;              &nbs
p;          
                    <asp:Button ID="confirmButton" runat="server" Text="Confirm Order"
/>

                </div>

        </div>
            <br />
        <div id ="recomendedItem" runat="server" >
        </div>
            </div>


    </form>
</body>
</html>
```

Vb.net

```vbnet
Imports System.Data.SqlClient
Imports System.Data
Imports System.Reflection.Emit
Partial Class lab07_customer_interfac
    Inherits System.Web.UI.Page
    Dim myIDproduct As Int32
    Dim MyOrder_id As Integer
    Dim myConnectionStr As String = "Data Source=AHMED;Initial Catalog=pvfc;Integrated
Security=True"
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles
Me.Load

        myIDproduct = Me.ViewState("productID")
        Dim myQuery As String = "SELECT ORDER_ID FROM ORDER_T WHERE ORDER_ID = (SELECT
MAX(ORDER_ID) FROM ORDER_t) "

        Dim MyConn As New SqlConnection(myConnectionStr)
        Dim myCommand As New SqlCommand(myQuery, MyConn)
        Dim reader As SqlDataReader

        Try
            MyConn.Open()
            reader = myCommand.ExecuteReader()

            reader.Read()
            MyOrder_id = Convert.ToInt32(reader("ORDER_ID"))


            reader.Close()
        Catch ex As Exception
            recomendedItem.InnerText = "Error occured : "
            recomendedItem.InnerText &= ex.Message

        Finally
            MyConn.Close()
        End Try

    End Sub

    Protected Sub ProdSearchButton_Click(sender As Object, e As EventArgs) Handles
ProdSearchButton.Click
        AddToCartButton.Enabled = True


        Dim connectionStr As String = "Data Source=AHMED;Initial Catalog=pvfc;Integrated
Security=True"

        Dim Qury As String = "SELECT  Product_id ,Product_Description, Product_Finish ,
Standard_Price  "
        Qury &= " FROM PRODUCT_T "
        Qury &= "WHERE Product_Description LIKE " & "'" & SearchTextBox.Text & "%'"
```

```vb
        Dim conn As New SqlConnection(connectionStr)
        Dim command As New SqlCommand(Qury, conn)
        Dim read As SqlDataReader

        Try
            conn.Open()
            read = command.ExecuteReader()

            Dim table As New DataTable()
            table.Columns.Add("Product Description")
            table.Columns.Add("Product Finish")
            table.Columns.Add("Standard Price")
            table.Columns.Add("Product ID")

            While read.Read()
                Dim row As DataRow = table.NewRow()
                row("Product Description") = read("Product_Description")
                row("Product Finish") = read("Product_Finish")
                row("Standard Price") = read("Standard_Price")
                row("Product ID") = read("product_id")
                table.Rows.Add(row)
            End While

            GridView1.DataSource = table
            GridView1.DataBind()

            read.Close()
            conn.Close()


        Catch ex As Exception

            ProductDetailLabel.Text = "We got an error: "
            ProductDetailLabel.Text &= ex.Message
            ProductDetailLabel.Visible = True
        Finally
            conn.Close()
        End Try


    End Sub

    Protected Sub AddToCartButton_Click(sender As Object, e As EventArgs) Handles
AddToCartButton.Click
        MyOrder_id += 1
        Dim MCustomer_id As String = Request.QueryString("MYCustomer_id").ToString
        ConfirmOrderDiv.Visible = True

        Dim InsertQuery As String = "INSERT INTO Order_t ( Order_Id, Customer_Id ,
Order_Date )"
        InsertQuery &= "VALUES ( @Order_Id , @Customer_Id , @Order_Date)"

        Dim myConn As New SqlConnection(myConnectionStr)
        Dim myComm As New SqlCommand(InsertQuery, myConn)
```

```vbnet
        myComm.Parameters.AddWithValue("@Order_id", MyOrder_id)
        myComm.Parameters.AddWithValue("@Customer_id", MCustomer_id)
        myComm.Parameters.AddWithValue("@Order_Date", Date.Now())

        Try
            myConn.Open()
            myComm.ExecuteNonQuery()
            MsgBox("order successful!")
            prodDetails.Visible = True


        Catch ex As Exception
            MsgBox("An error occurred: " & ex.Message)

        Finally
            myConn.Close()
        End Try

    End Sub

    Protected Sub confirmButton_Click(sender As Object, e As EventArgs) Handles
confirmButton.Click


        Dim InsertQuery As String = "INSERT INTO Order_line_t ( Order_Id, Product_Id ,
Ordered_Quantity)"
        InsertQuery &= "VALUES ( @Order_Id , @Product_Id  , @Ordered_Quantity)"

        Dim myConn As New SqlConnection(myConnectionStr)
        Dim myComm As New SqlCommand(InsertQuery, myConn)

        myComm.Parameters.AddWithValue("@Order_id", MyOrder_id)
        myComm.Parameters.AddWithValue("@Product_Id ", myIDproduct)
        myComm.Parameters.AddWithValue("@Ordered_Quantity ",
Convert.ToInt32(QuantityTextBox.Text))

        Try
            myConn.Open()
            myComm.ExecuteNonQuery()
            MsgBox("order confirmed!")

        Catch ex As Exception
            MsgBox("An error occurred: " & ex.Message)

        Finally
            myConn.Close()
        End Try

    End Sub

    Private Sub customer_interface_PreRender(sender As Object, e As EventArgs) Handles
Me.PreRender
        Me.ViewState("productID") = myIDproduct
    End Sub
    End Class
      o
```

Develop a page to place an order with corresponding order details.

Aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="employe_interface.aspx.vb"
Inherits="lab07_employe_interface" %>


<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            width: 1881px;
            height: 752px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="auto-style1" style="background-color: #89F9AD">
              <br />
           
            <asp:Button ID="AddProductButton" runat="server" Text="Add New Product" />
            <br />
            <br />
```

```
            <br />

            <div id ="ProductContents" runat ="server" visible ="false" >

            Enter the product description :
            <asp:TextBox ID="productDescriptionTextBox" runat="server"></asp:TextBox>
            <br />
            <br />
            Enter the product finish         :
            <asp:TextBox ID="ProductFinishTextBox" runat="server"></asp:TextBox>
            <br />
            <br />
            Enter the product Price         :
            <asp:TextBox ID="StandardPriceTextBox" runat="server"></asp:TextBox>
            <br />
                <asp:Label ID="Label1" runat="server" Text="Label"
Visible="False"></asp:Label>
            <br />
            <br />
           
            <asp:Button ID="AddToInventoryButton" runat="server" Text="Add to Inventory"
/>

            </div>
            </div>
    </form>
</body>
</html>
```

Vb.net

```vb
Imports System.Data.SqlClient
Partial Class lab07_employe_interface
    Inherits System.Web.UI.Page
    Dim prdID As Integer
    Dim myConnectionStr As String = "Data Source=AHMED;Initial Catalog=pvfc;Integrated
Security=True"
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles
Me.Load

        Dim myQuery As String = "SELECT PRODUCT_ID FROM PRODUCT_T WHERE PRODUCT_ID =
(SELECT MAX(PRODUCT_ID) FROM PRODUCT_t) "

        Dim MyConn As New SqlConnection(myConnectionStr)
        Dim myCommand As New SqlCommand(myQuery, MyConn)
        Dim reader As SqlDataReader

        Try
            MyConn.Open()
            reader = myCommand.ExecuteReader()

            reader.Read()
```

```vb
            prdID = Convert.ToInt32(reader("PRODUCT_ID"))


            reader.Close()

        Catch ex As Exception
            Label1.Text = "Error occured : "
            Label1.Text &= ex.Message
            Label1.Visible = True
        Finally
            MyConn.Close()

        End Try


    End Sub

    Protected Sub AddProductButton_Click(sender As Object, e As EventArgs) Handles
AddProductButton.Click
        ProductContents.Visible = True
    End Sub

    Protected Sub AddToInventoryButton_Click(sender As Object, e As EventArgs) Handles
AddToInventoryButton.Click

        prdID = prdID + 1
        Dim insertComm As String = "INSERT INTO PRODUCT_t ( Product_Id ,
Product_Description , Product_Finish , Standard_Price )"
        insertComm &= "VALUES ( @Product_Id , @Product_Description , @Product_Finish ,
@Standard_Price)"

        Dim myConn As New SqlConnection(myConnectionStr)
        Dim myComm As New SqlCommand(insertComm, myConn)

        myComm.Parameters.AddWithValue("@Product_id", prdID)
        myComm.Parameters.AddWithValue("@Product_Description",
productDescriptionTextBox.Text)
        myComm.Parameters.AddWithValue("@Product_Finish", ProductFinishTextBox.Text)
        myComm.Parameters.AddWithValue("@Standard_Price", StandardPriceTextBox.Text)

        Try
            myConn.Open()
            myComm.ExecuteNonQuery()
            MsgBox("Registration successful!")
        Catch ex As Exception
            MsgBox("An error occurred: " & ex.Message)

        Finally
            myConn.Close()
        End Try

    End Sub
End Class
```

Add New Product

Enter the product description : new_table

Enter the product finish   : ash

Enter the product Price   : 1000

Add to Inventory

SQLQuery3.sql - AHMED.pvfc (pvfc (58))* - Microsoft SQL Server Management Studio

Quick Launch (Ctrl+Q)

File   Edit   View   Query   Project   Tools   Window   Help

New Query

pvfc

Execute

Object Explorer

Connect

Databases
  System Databases
  Database Snapshots
  pvfc
    Database Diagrams
    Tables
      System Tables
      FileTables
      External Tables
      Graph Tables
      dbo.CUSTOMER_t
      dbo.Does_Business_In_t

SQLQuery3.sql - AHMED.pvfc (pvfc (58))*   AHMED.pvfc - dbo.EMPLOYEE_t   AHMED.pvfc - dbo.CUSTOMER_t   SQLQuery2.sql - not connected*

select * from PRODUCT_t

100 %

Results   Messages

	Product_Id	Product_Line_Id	Product_Description	Product_Finish	Standard_Price
1	1	1	End Table	Cherry	175.00
2	2	2	Coffee Table	Natural Ash	200.00
3	3	2	Computer Desk	Natural Ash	375.00
4	4	3	Entertainment Center	Natural Maple	650.00
5	5	1	Writers Desk	Cherry	325.00
6	6	2	8-Drawer Desk	White Ash	750.00
7	7	2	Dining Table	Natural Ash	800.00
8	8	3	Computer Desk	Walnut	250.00
9	9	NULL	new_table	ash	1000.00

```
insert into CUSTOMER_t(Customer_Id , Customer_Name,username, passwords)
values(16,'ahmed','ahmed@gmail.com','1234')
```

Messages

(1 row affected)

Completion time: 2023-04-29T17:19:12.6054498+05:00


```
insert into EMPLOYEE_t(Employee_Id, Employee_Name,username, passwords)
values(3,'Ahmed','ahmedEmpy@gmail.com','1234')
```

Messages

(1 row affected)

Completion time: 2023-04-29T17:19:12.6054498+05:00