

# **MOTILAL DULICHAND PVT. LTD.**

**A Project Report**

**Submitted As Part of the Internship Program**

**Project Titled:-Payroll System**



*Submitted By*

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## **ABSTRACT**

This documentation provides a comprehensive overview of a payroll system developed during an internship at Motilal Dulichand, utilizing Visual Basic (VB) for frontend development and SQL for backend database management. The project aimed to enhance efficiency in payroll operations by automating employee data management, salary calculations based on predefined structures, and generating detailed reports for department-wise salary distributions. The system architecture was designed to ensure scalability and reliability, with VB offering an intuitive user interface for HR administrators to seamlessly manage employee records, while SQL facilitated secure storage and efficient retrieval of data. Key components covered include a detailed exploration of the database schema, outlining tables, relationships, and data structures employed to manage employee information and salary computations. This project not only enriched technical skills in software development and database integration but also highlighted the practical application of technology in optimizing organizational processes and decision-making. Overall, the payroll system project exemplifies the successful application of theoretical knowledge in a real-world setting, underscoring its significance in professional growth and proficiency in information technology.

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## INTRODUCTION

During my internship at Motilal Dulichand, I undertook the development of a comprehensive payroll management system using Visual Basic (VB) and SQL. This project served as a practical learning opportunity to deepen my understanding of software development and database integration. The system was designed to automate the management of employee details, salary structures, and reporting processes. Despite being a training project, its objectives included creating a user-friendly interface for HR administrators to efficiently handle employee records, automate salary calculations based on predefined rules, and generate insightful reports.

While the system was not implemented for operational use within the company, its development provided valuable insights into the complexities of payroll management and software engineering practices. By leveraging VB for frontend development, I focused on creating an intuitive interface that ensured seamless interaction with the system. On the backend, SQL facilitated robust data management, ensuring secure storage and efficient retrieval of employee and salary information. This technology stack not only met the project's technical requirements but also equipped me with practical skills in application development and database administration.

Throughout the project, I collaborated closely with HR professionals to align the system's functionalities with industry practices and organizational needs. This experience not only enhanced my technical proficiency but also underscored the importance of user feedback in refining software solutions. By simulating real-world payroll scenarios and addressing specific challenges encountered during development, I gained valuable hands-on experience in software lifecycle management and project execution within a corporate environment.

In conclusion, while the payroll management system developed during my internship at Motilal Dulichand was primarily for training purposes, it provided a solid foundation in software development and database integration. This project not only sharpened my technical skills but also deepened my appreciation for the role of technology in optimizing business processes. It remains a significant milestone in my journey toward becoming a proficient software developer and problem solver in the field of information technology.

## DATABASE SCHEMA

A database schema is like a blueprint that shows how data is organized in a database. It includes tables with information, how these tables are connected, and rules to keep the data accurate. The database schema for the payroll system I developed during my internship at Motilal Dulichand is very important for making sure everything works well and efficiently. This schema is created using SQL and is designed to store and manage key employee information and salary data, working seamlessly with the Visual Basic frontend.

Here are the main parts of the schema:

- **Employee Table:** This table stores personal and job-related details about employees. It helps in easily accessing and managing employee information.
- **Salary Table:** This table contains details about each employee's salary, including different components like basic pay and allowances. It ensures that salaries are calculated correctly and fairly.
- **Transaction Table:** This table records all salary-related transactions, such as total salary, loans, advances, and deductions. It helps in keeping track of all the financial transactions related to payroll.
- **Parameter Table:** This table includes various payroll parameters, like rates and limits for benefits and deductions. It helps in maintaining and updating payroll rules and rates according to company policies and legal requirements.

These tables are linked together using keys. For example, the Employee table is connected to the Department table, making sure that each employee is linked to a valid department. Similarly, the Salary table is linked to the Employee table to connect salary details with the right employee. These links help keep the data accurate and make it easier to retrieve complex information.

The schema also has rules to ensure data accuracy. For instance, each employee must have a unique identifier, and salary values should be valid. These rules help prevent errors and keep the data consistent.

This well-designed database schema makes sure that data is stored and retrieved securely and efficiently, following industry standards. It highlights the technical details and careful

planning needed to meet the organization's needs. The schema ensures the payroll system can handle different scenarios, adapt to changes, and support future improvements, providing a reliable solution for managing employee payroll.

Here is the table structure of the tables used:

## 1-EMPLOYEE

<b>FIELD</b>	<b>TYPE</b>	<b>NULL</b>	<b>KEY</b>
Employee Code	Numeric(18, 0)	Not Null	Primary Key
Employee Name	Varchar(50)	Null	
Gender	Varchar(50)	Null	
Address	Varchar(50)	Null	
Dob	Date	Null	
City	Varchar(50)	Null	
Qualification	Varchar(50)	Null	
DOJ	Date	Null	
Shift	Time(7)	Null	
Pin code	Numeric(18, 0)	Null	
Phone	Numeric(18, 0)	Null	
Email	Varchar(50)	Null	
Pf_Number	Numeric(18, 0)	Null	
Esi_Number	Numeric(18, 0)	Null	
Department	Varchar(50)	Null	

TABLE 1:EMPLOYEE

## 2-SALARY

FIELD	TYPE	NULL	KEY
Employee Code	Numeric(18, 0)	Not Null	Foreign Key
Department	Varchar(50)	Null	
Designation	Varchar(50)	Null	
Basic_Salary	Decimal(18, 0)	Null	
Da	Decimal(18, 0)	Null	
Hra	Decimal(18, 0)	Null	
Medical	Decimal(18, 0)	Null	
Performance	Decimal(18, 0)	Null	
Conveyance	Decimal(18, 0)	Null	

TABLE 2: SALARY

## 3-TRANSACTION

FIELD	TYPE	NULL	KEY
Employee Code	Numeric(18, 0)	Not Null	Primary Key
Month	Varchar(50)	Null	
Year	Int	Null	
Working_Day	Int	Null	
Holiday	Int	Null	
Early_Leave	Int	Null	
Casual_Leave	Int	Null	
Leave_Without_Pay	Int	Null	
Tds	Int	Null	
Advance	Int	Null	
Loan_From_Bank	Decimal(18, 0)	Null	
Loan_From_Company	Decimal(18, 0)	Null	
Total_Salary	Decimal(18, 0)	Null	

TABLE 3: TRANSACTION



## 4-PARAMETER

FIELD	TYPE	NULL	KEY
Pf Limit	Decimal(18, 0)	Null	
Esi Limit	Decimal(18, 0)	Null	
Pf Employee Rate	Decimal(18, 0)	Null	
Pf Employer Rate	Decimal(18, 0)	Null	
Esi Employee Rate	Decimal(18, 0)	Null	
Esi Employer Rate	Decimal(18, 0)	Null	
Pf Type	Varchar(50)	Null	
Esi Type	Varchar(50)	Null	

TABLE 4: TRANSACTION

## 5-COMPANY

FIELD	TYPE	NULL	KEY
Company Name	Varchar(50)	Null	
Address	Varchar(Max)	Null	
Phone	Numeric(18, 0)	Null	
Email	Varchar(50)	Null	

TABLE 5: COMPANY

# ER DIAGRAM

An Entity-Relationship (ER) diagram is a visual representation of the data and the relationships between data within a database. It is a crucial tool in database design and helps in understanding how different entities (objects) interact with each other within the system.

## COMPONENTS AND SYMBOLS OF AN ER DIAGRAM

### 1. Entity

- **Symbol:** Rectangles
- **Description:** Entities represent real-world objects or concepts that have data stored about them in the database. Examples include "Employee," and "Salary."

### 2. Attributes

- **Symbol:** Ovals
- **Description:** Attributes are the properties or details of an entity. For instance, an "Employee" entity may have attributes such as Name, Address, and Phone Number.

### 3. Relationships

- **Symbol:** Diamonds
- **Description:** Relationships show how entities are related to each other. The relationship is usually labeled with verbs like "works in," "has," "belongs to," etc.

### 4. Primary Key

- **Symbol:** Underlined text inside the entity rectangle
- **Description:** A primary key is a unique identifier for an entity. It ensures that each record within the entity is unique. For example, EmployeeID can be the primary key for the Employee entity.

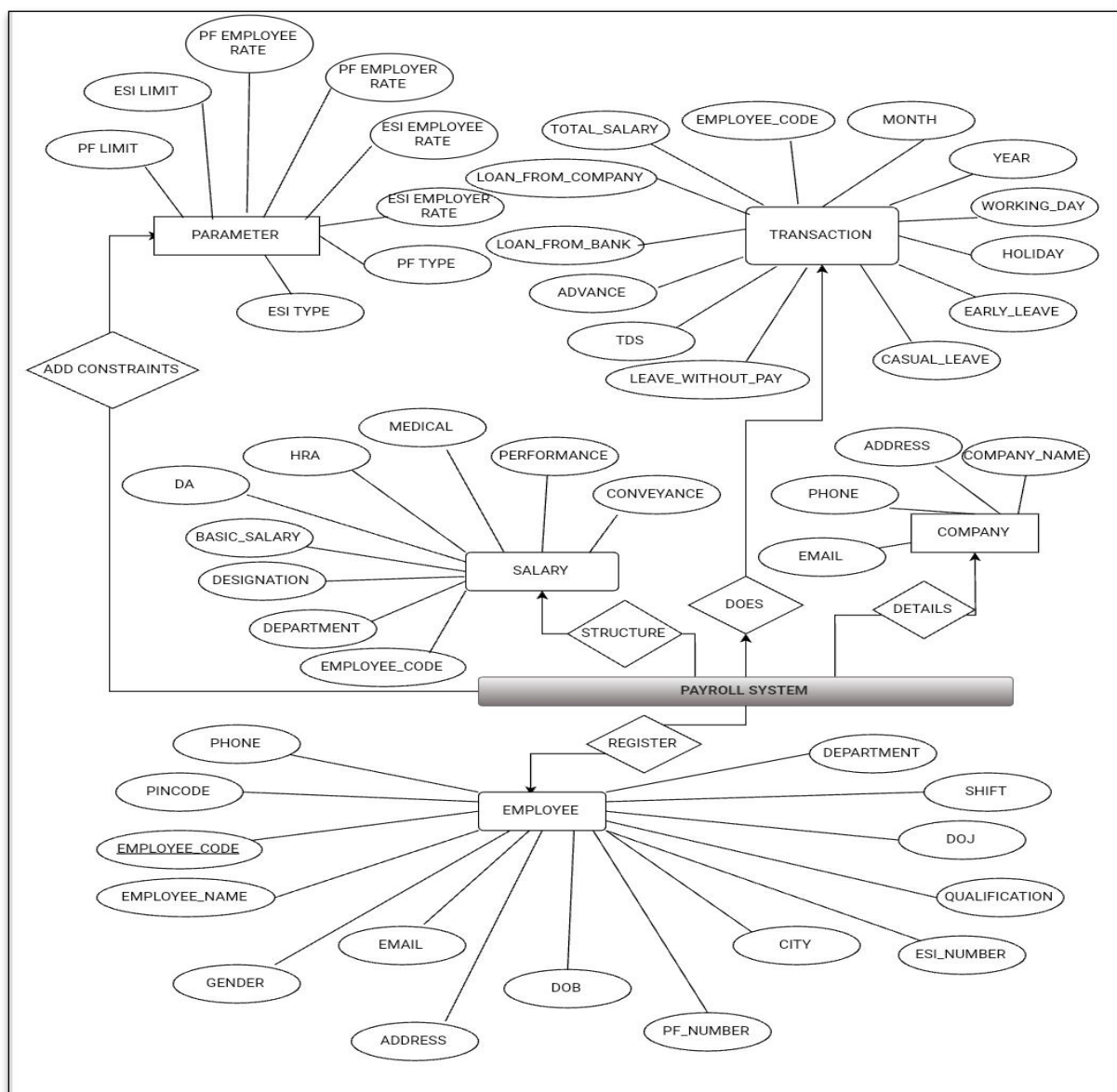
### 5. Cardinality

- **Symbol:** Notations like 1:1, 1, N
- **Description:** Cardinality defines the numerical relationship between entities:
  - **1:1 (One-to-One):** One entity instance is associated with one instance of another entity.

- **1(One-to-Many):** One entity instance is associated with multiple instances of another entity.
- **N(Many-to-Many):** Multiple instances of one entity are associated with multiple instances of another entity.

Understanding ER diagrams and their symbols is essential for designing efficient and well-structured databases, ensuring data integrity, and supporting the system's operational needs effectively.

## ER DIAGRAM FOR PAYROLL SYSTEM



# USER INTERFACE

User Interface (UI) in the context of software refers to the visual elements, controls, and interactions through which a user interacts with a system. It encompasses the layout, design, and functionality of the graphical interface that users interact with to perform tasks and access information within an application or system.

Displayed below are the current screenshots of the payroll system's forms, provided for reference and evaluation.

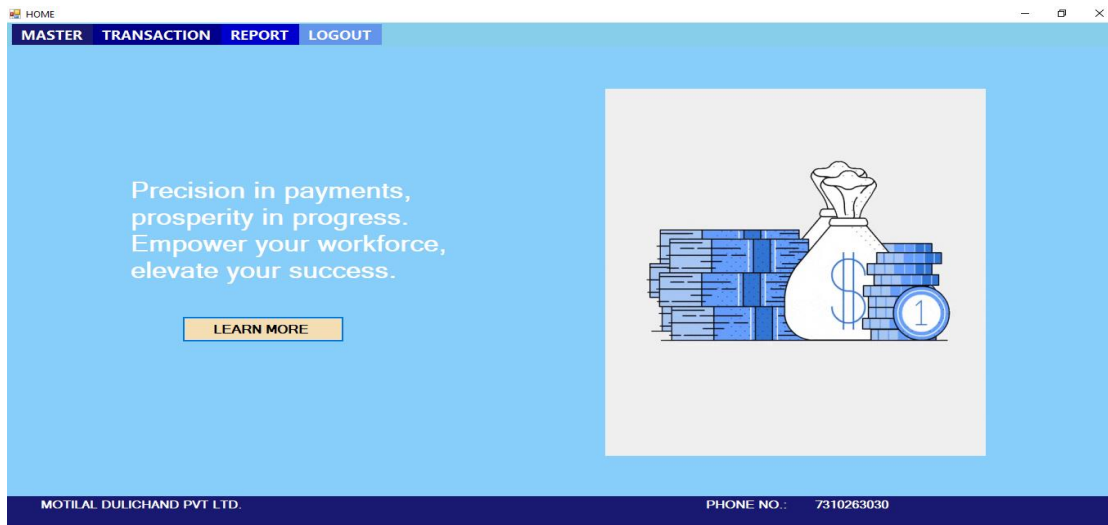
FORM1:-



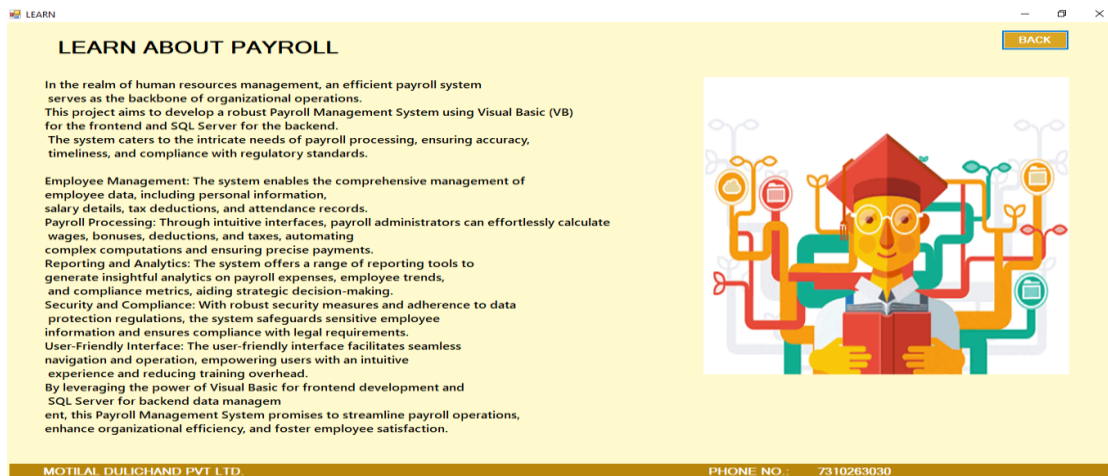
LOGIN:-



## HOME PAGE:-



## LEARN:-



## ADD EMPLOYEE DETAILS:-

The Add Employee Details form has a light blue background. At the top, there is a navigation bar with a "BACK" button. The main content area contains a form titled "ADD EMPLOYEE DETAILS". The form has two columns of input fields. The left column contains: NAME, GENDER, ADDRESS, CITY, PINCODE, DATE OF BIRTH, and DATE OF JOINING. The right column contains: SHIFT, QUALIFICATION, PHONE, EMAIL, PF NUMBER, ESI NUMBER, and DEPARTMENT. Below the input fields, there are two buttons: "RETURN" and "PROCEED", separated by the text "OR". At the bottom of the page, there is a footer with the text "MOTILAL DULICHAND PVT LTD." and "PHONE NO.: 7310263030".

## EMPLOYEE DETAILS:-

SHOW

BACK

### EMPLOYEE DETAILS

EMPLOYEE_ID	EMPLOYEE_NAME	GENDER	ADDRESS	DOB	CITY	QUALIFICATION	DOJ	SHIFT	PINCODE	PHONE	EMAIL	PF_NUMBER	ESI_NUMBER	DEPARTMENT
11133	RAHUL GU...	MALE	56 SP LANE	22/03/1990	NEW DELHI	B.TECH	30/05/2024	16:00:00	1100001	9812345678	RAHUL@G...	1003	2003	INFORMATI...
17265	PRIYA PATEL	FEMALE	34 SV STRE...	22/07/1989	AHMEDABAD	M.A.	15/03/2023	12:00:00	380001	9876543210	PRIYA@GM...	1002	2002	HUMAN RE...
27747	SUMAN	FEMALE	GUMTI NO.5	16/08/2000	KANPUR	BBA	07/06/2024	12:00:00	208009	45367822	SUMAN@G...	34256	7765	HUMAN RE...
27770	VIVEK NAIR	MALE	22 KL LANE	07/03/1990	KOCHI	B.E.	14/06/2024	09:00:00	682001	9847034567	VIVEK@GM...	1007	2007	INFORMATI...
30223	POOJA IYER	FEMALE	33 TN STR...	12/03/1999	CHENNAI	M.B.A	30/05/2024	12:00:00	600001	9784234561	POJA@GM...	1008	2008	PRODUCTI...
34002	ANJALI VER...	FEMALE	78 RK ROAD	11/02/2000	BANGALORE	B.A.	13/07/2023	09:00:00	560001	9845123456	ANJALI@G...	1004	2004	SALES
36361	VANSH	MALE	SHASTRI N...	16/06/2001	KANPUR	B.COM	03/07/2024	12:00:00	208005	9555666412	VANSH@G...	123456	789456	FINANCE
40356	SUNITA JO...	FEMALE	55 PB LANE	13/03/2009	CHANDIGA...	B.A.	06/06/2024	09:00:00	1600001	965467894	SUNITA@G...	1009	2009	HUMAN RE...
44420	RAKESH K...	MALE	44 DL ROAD	19/03/1995	DELHI	B.SC	22/05/2024	16:00:00	110002	9765432190	RAKESH@...	1009	2009	PRODUCTI...
51843	KARAN SIN...	MALE	90 MN STR...	21/02/1999	JAIPUR	M.SC	16/12/2022	12:00:00	302001	9876012345	KARAN@G...	1005	2005	FINANCE
70103	MEENA RE...	FEMALE	11 AP ROAD	13/03/1996	HYDERBAD	B.COM	14/06/2023	16:00:00	500001	9867023456	MEENA@G...	1006	2006	PRODUCTI...
83912	MUSKAN	FEMALE	SHASTRI N...	15/07/1999	KANPUR	B.COM	03/06/2024	09:00:00	208005	5555555555	MUSKAN@...	12345	342	SALES
83957	LALIT	MALE	VUAY NAGAR	16/10/1999	KANPUR	B.COM	05/06/2024	12:00:00	1234	8888	LALIT@GMAI	12345	555	FINANCE
89989	AMIT SHAR...	MALE	12 MG ROAD	15/04/1985	MUMBAI	B.SC	01/01/2023	09:00:00	40001	9820123456	AMIT@GMA...	1001	2001	SALES
90918	VANSHIKA	FEMALE	SHASTRI N...	14/10/2004	KANPUR	BCA	03/06/2024	09:00:00	208005	9555190328	VANSHIKA...	12345		INFORMATI...

UPDATE

DELETE

MOTILAL DULICHAND PVT LTD.

PHONE NO.: 7310263030

## ADD SALARY STRUCTURE:-

SAL

BACK

### SALARY STRUCTURE

EMPLOYEE CODE: 36361

NAME: VANSI

DEPARTMENT: FINANCE



DESIGNATION

BASIC SALARY

DA

HRA

CONVEYANCE

MEDICAL

PERFORMANCE

SUBMIT

MOTILAL DULICHAND PVT LTD.

PHONE NO.: 7310263030

## COMPENSATION FRAMEWORK:-

PARAMETER

BACK

### COMPENSATION FRAMEWORK

PF Salary Limit: 21000

PF Employee Rate: 12

PF Employer Rate: 20

ESI Salary Limit: 0

ESI Employee Rate: 1

ESI Employer Rate: 22

SUBMIT

MOTILAL DULICHAND PVT LTD.

PHONE NO.: 7310263030



## SALARY DETAILS:-

SALARY\_EDIT

BACK

SALARY DETAILS

EMPLOYEE_CODE	DEPARTMENT	DESIGNATION	BASIC_SALARY	DA	HRA	MEDICAL	PERFORMANCE	CONVEYANCE
36361	FINANCE	ASSISTANT	12000	1000	2000	1200	5000	8000
83957	FINANCE	SALESMAN	12000	4000	5500	440	300	1000
27747	HUMAN RESOURCE	JUNIOR ASSITANT	32000	3320	5500	1230	6780	4500
89989	SALES	SALES MANAGER	50000	10000	12000	3000	2000	5000
11133	INFORMATION AND T...	SOFTWARE MANAGER	45000	6000	11000	2500	2000	4500
30223	PRODUCTION	AREA SALES MANAG...	60000	12000	14000	4000	3000	6000
27770	INFORMATION AND T...	REGIONAL MANGER ...	70000	14000	16000	4500	3500	7000
70103	PRODUCTION	SALES REPRESENTATIVE	12000	2900	5000	2000	1000	1500
17265	HUMAN RESOURCE	SALES EXECUTIVE	30000	8000	2000	1500	1000	3000
51843	FINANCE	SALES OFFICER	25000	5000	7000	1500	1000	2500
34002	SALES	SALES LEAD	40000	8000	10000	2000	1800	4000
40356	HUMAN RESOURCE	SALES ANAYLYST	35000	7000	9000	2000	1500	3500
44420	PRODUCTION	TERRITORY MANAGER	55000	11000	13000	3500	2500	5500

UPDATE

DELETE

MOTILAL DULICHAND PVT LTD.


PHONE NO.: 7310263030

## COMPANY DETAILS:-

COMPANY

EDIT COMPANY DETAILS

BACK



COMPANY NAME:

ADDRESS:

PHONE NO:

UPDATE

## TRANSACTION:-

TRANS

BACK

COMPUTE MONTHLY INCOME

MONTH: July

YEAR: 2024

EMPLOYEE CODE: 36361

SUBMIT

NAME: VANSH

DEPARTMENT: FINANCE

NO. OF DAYS IN THE MONTH: 31

NO. OF SUNDAYS IN THE MONTH: 4

NO. OF DAYS WITHOUT SUNDAY: 27

TOTAL SALARY: 23869

SALARY STRUCTURE

BASIC SALARY	12000
DA	1000
HRA	2000
MEDICAL	1200
PERFORMANCE	5000
CONVEYANCE	8000

ON-DUTY DAYS:	21
NO.OF HOLIDAYS	2
EARLY LEAVES	1
CASUAL LEAVES	2
UNPAID LEAVES	1

PF RATE	0.12	ESI RATE	0.01
CALC	0		130.00
TDS			120
ADVANCE			3000
LOAN FROM BANK			1000
LOAN FROM COMPANY			

CALCULATE

MOTILAL DULICHAND PVT LTD.

PHONE NO.: 7310263030

## REPORT:-

REPORT

**MOTILAL DULICHAND PVT LTD.**  
Industrial Estate, Fazalganj Industrial Estate, Fazalganj, Shaastri Nagar, Kanpur, Uttar Pradesh 208012

BACK

SALARY SHEET OF **June** AND YEAR **2024** CONTINUE

**HUMAN RESOURCE**

EMPLOYEE_CODE	EMPLOYEE_NAME	Department	DESIGNATION	BASIC_SALARY	DA	HRA	MEDICAL	PERFORMANCE	CONVEYANCE	MONTH	YEAR	WORK
17265	PRIYA PATEL	HUMAN RESOU...	SALES EXECUTI...	30000	8000	2000	1500	1000	3000	June	2024	18
27747	SUMAN	HUMAN RESOU...	JUNIOR ASSITA...	32000	3320	5500	1230	6780	4500	June	2024	21
40356	SUNITA JOSHI	HUMAN RESOU...	SALES ANAYLY...	35000	7000	9000	2000	1500	3500	June	2024	23

**PRODUCTION**

EMPLOYEE_CODE	EMPLOYEE_NAME	Department	DESIGNATION	BASIC_SALARY	DA	HRA	MEDICAL	PERFORMANCE	CONVEYANCE	MONTH	YEAR	WORK
70103	MEENA REDDY	PRODUCTION	SALES REPRESENTATIVE	12000	2900	5000	2000	1000	1500	June	2024	10
30223	POOJA IYER	PRODUCTION	AREA SALES M...	60000	12000	14000	4000	3000	6000	June	2024	22
44420	RAKESH KUMAR	PRODUCTION	TERRITORY MA...	55000	11000	13000	3500	2500	5500	June	2024	17

**INFORMATION AND TECHNOLOGY**

EMPLOYEE_CODE	EMPLOYEE_NAME	Department	DESIGNATION	BASIC_SALARY	DA	HRA	MEDICAL	PERFORMANCE	CONVEYANCE	MONTH	YEAR	WORK
11133	RAHUL GUPTA	INFORMATION ...	SOFTWARE MA...	45000	6000	11000	2500	2000	4500	June	2024	20

## SUMMARY:-

FINAL

**MOTILAL DULICHAND PVT LTD.**  
Industrial Estate, Fazalganj Industrial Estate, Fazalganj, Shaastri Nagar, Kanpur, Uttar Pradesh 208012

BACK

DEPARTMENT	NO.OF EMPLOYEE	TOTAL SALARY
HUMAN RESOURCE	3	109826
PRODUCTION	3	121771
SALES	2	66536
FINANCE	2	52850
INFORMATION AND TECHNOLOGY	2	114770
<b>TOTAL SALARY TO BE GIVEN :</b>		<b>465753</b>



## CODE IMPLEMENTATION

Code implementation refers to the process of writing the actual code that brings a software design to life. It involves translating design specifications and requirements into a functional program using programming languages. This includes developing the frontend and backend components, integrating them, performing initial testing, and optimizing for efficiency.

Here is the code for all the forms in the payroll system:

### 1-FORM1:-

```
Imports System.Data.SqlClient
```

```
Public Class Form1
```

```
    ' Define the connection string (update with your actual database details)
```

```
    Private connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"
```

```
    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
```

```
        ' Call the method to load company details when the form loads
```

```
        LoadCompanyDetails()
```

```
    End Sub
```

```
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
```

```
        Me.Hide()
```

```
        LOGIN.Show()
```

```
    End Sub
```

```
    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
```

```
        Dim result As DialogResult = MessageBox.Show("Are you sure you want to exit the application?",
```

```
            "Confirmation",
```

```
            MessageBoxButtons.YesNo,
```

```
            MessageBoxIcon.Question)
```

```
        ' If the user confirms, exit the application
```

```
        If result = DialogResult.Yes Then
```

```
            Application.Exit()
```

```
        End If
```

```
    End Sub
```

```
    Private Sub LoadCompanyDetails()
```

```
        ' SQL query to get the company name and address
```

```
        Dim query As String = "SELECT [COMPANY NAME], [ADDRESS] FROM [dbo].[COMPANY]"
```

```
        ' Create a connection and command object
```

```
        Using connection As New SqlConnection(connectionString),
```

```
            command As New SqlCommand(query, connection)
```

```
            Try
```

```
                ' Open the connection
```

```
                connection.Open()
```

```
                ' Execute the command and get the data reader
```

```

Using reader As SqlDataReader = command.ExecuteReader()
    ' Check if there is a row to read
    If reader.Read() Then
        ' Get the name and address from the reader
        Dim companyName As String = reader("COMPANY NAME").ToString()
        Dim companyAddress As String = reader("ADDRESS").ToString()

        ' Set the labels' text to the company details
        Label2.Text = companyName
        Label3.Text = companyAddress
    Else
        ' Handle the case where no data is returned
        MessageBox.Show("No company details found.", "Information",
        MessageBoxButtons.OK, MessageBoxIcon.Information)
    End If
End Using

Catch ex As Exception
    ' Handle any errors that might have occurred
    MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
    "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
End Try
End Using
End Sub
End Class

```

## 2-LOGIN:-

Imports System.Data.SqlClient

Imports System.Windows.Forms.VisualStyles.VisualStyleElement.Button

Public Class LOGIN

Private connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

Private Sub LOGIN\_Load\_1(sender As Object, e As EventArgs) Handles MyBase.Load

    If CheckBox1.Checked = False Then

        TextBox2.UseSystemPasswordChar = True

    End If

    LoadCompanyDetails()

End Sub

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

    Dim username As String = TextBox1.Text.Trim()

    Dim password As String = TextBox2.Text.Trim()

    If String.IsNullOrEmpty(username) OrElse String.IsNullOrEmpty(password) Then

        MessageBox.Show("Please enter both username and password.", "warning",

        MessageBoxButtons.OK, MessageBoxIcon.Warning)

        Return

    End If

    If TextBox1.Text = ("VANSHIKA") And TextBox2.Text = ("123456") Then

        HOME.Show()

        Me.Hide()

    Else

        MessageBox.Show("Invalid username or password.", "warning", MessageBoxButtons.OK,

        MessageBoxIcon.Warning)

    End If

End Sub

Private Sub CheckBox1\_CheckedChanged\_1(sender As Object, e As EventArgs) Handles CheckBox1.CheckedChanged

    If CheckBox1.Checked = True Then

        TextBox2.UseSystemPasswordChar = False

    ElseIf CheckBox1.Checked = False Then

        TextBox2.UseSystemPasswordChar = True

    End If

End Sub

Private Sub Button2\_Click(sender As Object, e As EventArgs) Handles Button2.Click

    Me.Close()

    Form1.Show()

End Sub

Private Sub LoadCompanyDetails()

    ' SQL query to get the company name and address

    Dim query As String = "SELECT [COMPANY NAME] FROM [dbo].[COMPANY]"

    ' Create a connection and command object

    Using connection As New SqlConnection(connectionString),

        command As New SqlCommand(query, connection)

    Try

```

' Open the connection
connection.Open()

' Execute the command and get the data reader
Using reader As SqlDataReader = command.ExecuteReader()
' Check if there is a row to read
If reader.Read() Then
' Get the name and address from the reader
Dim companyName As String = reader("COMPANY NAME").ToString()

' Set the labels' text to the company details
Label4.Text = companyName

Else
' Handle the case where no data is returned
MessageBox.Show("No company details found.", "Information",
MessageBoxButtons.OK, MessageBoxIcon.Information)
End If
End Using

Catch ex As Exception
' Handle any errors that might have occurred
MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
"Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
End Try
End Using
End Sub
End Class

```

### 3-HOME PAGE:-

Imports System.Data.SqlClient

Public Class HOME

Private connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

Private Sub LOGOUTToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles LOGOUTToolStripMenuItem.Click

Dim result As DialogResult

result = MessageBox.Show("ARE YOU SURE YOU WANT TO LOGOUT", "Confirmation",  
MessageBoxButtons.OKCancel, MessageBoxIcon.Question)

If result = DialogResult.OK Then

Me.Close()

Form1.Show()

End If

End Sub

Private Sub ADDNEWEMPLOYEEToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles ADDNEWEMPLOYEEToolStripMenuItem.Click

Me.Close()

ADD.Show()

End Sub

Private Sub SHOWEMPLOYEEDETAILSToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles SHOWEMPLOYEEDETAILSToolStripMenuItem.Click

Me.Close()

SHOWW.Show()

End Sub

Private Sub ADDSALARYSTRUCTUREToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles ADDSALARYSTRUCTUREToolStripMenuItem.Click

Me.Close()

SEARCH.Show()

End Sub

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

Me.Close()

LEARN.Show()

End Sub

Private Sub COMPENSATIONFRAMEWORKToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles COMPENSATIONFRAMEWORKToolStripMenuItem.Click

Me.Close()

PARAMETER.Show()

End Sub

Private Sub TRANSACTIONToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles TRANSACTIONToolStripMenuItem.Click

Me.Close()

TRANS.Show()

End Sub

Private Sub REPORTToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles REPORTToolStripMenuItem.Click

Me.Close()

```

    REPORT.Show()
End Sub

Private Sub EDITSALARYSTRUCTUREToolStripMenuItem_Click(sender As Object, e As
EventArgs) Handles EDITSALARYSTRUCTUREToolStripMenuItem.Click
    Me.Close()
    SALARY_EDIT.Show()
End Sub

Private Sub CompanyBrandingToolStripMenuItem_Click(sender As Object, e As EventArgs)
Handles CompanyBrandingToolStripMenuItem.Click
    Me.Close()
    COMPANY.Show()
End Sub

Private Sub HOME_Load(sender As Object, e As EventArgs) Handles MyBase.Load
    LoadCompanyDetails()
End Sub
Private Sub LoadCompanyDetails()
    ' SQL query to get the company name and address
    Dim query As String = "SELECT [COMPANY NAME], [PHONE] FROM [dbo].[COMPANY]"

    ' Create a connection and command object
    Using connection As New SqlConnection(connectionString),
        command As New SqlCommand(query, connection)
    Try
        ' Open the connection
        connection.Open()

        ' Execute the command and get the data reader
        Using reader As SqlDataReader = command.ExecuteReader()
            ' Check if there is a row to read
            If reader.Read() Then
                ' Get the name and address from the reader
                Dim companyName As String = reader("COMPANY NAME").ToString()
                Dim companyPHONE As String = reader("PHONE").ToString()

                ' Set the labels' text to the company details
                Label2.Text = companyName
                Label3.Text = companyPHONE
            Else
                ' Handle the case where no data is returned
                MessageBox.Show("No company details found.", "Information",
                MessageBoxButtons.OK, MessageBoxIcon.Information)
            End If
        End Using

    Catch ex As Exception
        ' Handle any errors that might have occurred
        MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
        "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
    End Try
End Using
End Sub
End Class

```

## 4-ADD EMPLOYEE:-

Imports System.Data.SqlClient

Public Class ADD

' Define a function to generate a unique 5-digit employee code

Private connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

Private Function GenerateEmployeeCode() As String

Dim rnd As New Random()

Dim code As String

Do

code = rnd.Next(10000, 99999).ToString() ' Generate a random 5-digit number

Loop While IsEmployeeCodeExists(code)

Return code

End Function

' Check if the generated employee code already exists in the database

Private Function IsEmployeeCodeExists(code As String) As Boolean

Dim con As SqlConnection = New SqlConnection("Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False")

Dim cmd As SqlCommand = New SqlCommand("SELECT COUNT(\*) FROM EMPLOYEE WHERE EMPLOYEE\_CODE = @Code", con)

cmd.Parameters.AddWithValue("@Code", code)

con.Open()

Dim count As Integer = Convert.ToInt32(cmd.ExecuteScalar())

con.Close()

Return count > 0

End Function

Private Sub ADD\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

' Populate the ComboBox with shift timings

ComboBox3.Items.Add("9-12")

ComboBox3.Items.Add("12-4")

ComboBox3.Items.Add("4-7")

LoadCompanyDetails()

' Add event handlers for all input controls

AddHandler TextBox1.TextChanged, AddressOf CheckFields

AddHandler ComboBox1.SelectedIndexChanged, AddressOf CheckFields

AddHandler TextBox3.TextChanged, AddressOf CheckFields

AddHandler DateTimePicker1.ValueChanged, AddressOf CheckFields

AddHandler TextBox4.TextChanged, AddressOf CheckFields

AddHandler TextBox8.TextChanged, AddressOf CheckFields

AddHandler DateTimePicker2.ValueChanged, AddressOf CheckFields

AddHandler ComboBox3.SelectedIndexChanged, AddressOf CheckFields

AddHandler TextBox5.TextChanged, AddressOf CheckFields

AddHandler TextBox9.TextChanged, AddressOf CheckFields

AddHandler TextBox10.TextChanged, AddressOf CheckFields

AddHandler ComboBox2.SelectedIndexChanged, AddressOf CheckFields

AddHandler TextBox11.TextChanged, AddressOf CheckFields

AddHandler ComboBox4.SelectedIndexChanged, AddressOf CheckFields

' Initially check fields

CheckFields()

End Sub

Private Sub CheckFields()

' Check if all required fields are filled

If Not String.IsNullOrEmpty(TextBox1.Text) AndAlso  
    ComboBox1.SelectedIndex <> -1 AndAlso  
    Not String.IsNullOrEmpty(TextBox3.Text) AndAlso  
    Not String.IsNullOrEmpty(TextBox4.Text) AndAlso  
    Not String.IsNullOrEmpty(TextBox8.Text) AndAlso  
    ComboBox3.SelectedIndex <> -1 AndAlso  
    Not String.IsNullOrEmpty(TextBox5.Text) AndAlso  
    Not String.IsNullOrEmpty(TextBox9.Text) AndAlso  
    Not String.IsNullOrEmpty(TextBox10.Text) AndAlso  
    ComboBox2.SelectedIndex <> -1 AndAlso  
    Not String.IsNullOrEmpty(TextBox11.Text) AndAlso  
    ComboBox4.SelectedIndex <> -1 Then  
    Button2.Enabled = True

Else

    Button2.Enabled = False

End If

End Sub

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

    Me.Close()

    HOME.Show()

End Sub

Private Sub Button2\_Click(sender As Object, e As EventArgs) Handles Button2.Click

    Dim empCode As String = GenerateEmployeeCode()

    Dim empName As String = TextBox1.Text

    Dim Department As String = ComboBox4.SelectedItem.ToString()

    Dim con As SqlConnection = New SqlConnection("Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False")

    Dim cmd As SqlCommand = New SqlCommand("INSERT INTO [dbo].[EMPLOYEE1]

        ([EMPLOYEE\_CODE]

        ,[EMPLOYEE\_NAME]

        ,[GENDER]

        ,[ADDRESS]

        ,[DOB]

        ,[CITY]

        ,[QUALIFICATION]

        ,[DOJ]

        ,[SHIFT]

        ,[PINCODE]

        ,[PHONE]

        ,[EMAIL]

        ,[PF\_NUMBER]

        ,[ESI\_NUMBER]

        ,[DEPARTMENT])

VALUES

    (@EmpCode, @EmpName, @Gender, @Address, @DOB, @City, @Qualification, @DOJ,  
    @Shift, @Pincode, @Phone, @Email, @PFNumber, @ESINumber, @DEPARTMENT)", con)

    cmd.Parameters.AddWithValue("@EmpCode", empCode)

    cmd.Parameters.AddWithValue("@EmpName", TextBox1.Text)



```

cmd.Parameters.AddWithValue("@Gender", ComboBox1.SelectedItem.ToString())
cmd.Parameters.AddWithValue("@Address", TextBox3.Text)
cmd.Parameters.AddWithValue("@DOB", DateTimePicker1.Value)
cmd.Parameters.AddWithValue("@City", TextBox4.Text)
cmd.Parameters.AddWithValue("@Qualification", TextBox8.Text)
cmd.Parameters.AddWithValue("@DOJ", DateTimePicker2.Value)
cmd.Parameters.AddWithValue("@Shift", TimeSpan.Parse(GetSelectedShiftTime()))
cmd.Parameters.AddWithValue("@Pincode", TextBox5.Text)
cmd.Parameters.AddWithValue("@Phone", TextBox9.Text)
cmd.Parameters.AddWithValue("@Email", TextBox10.Text)
If ComboBox2.SelectedItem IsNot Nothing Then
    If ComboBox2.SelectedItem.ToString() = "YES" Then
        ' Assuming cmd is your SQL command object
        cmd.Parameters.AddWithValue("@PFNumber", TextBox2.Text)
    Else
        ' Assuming cmd is your SQL command object
        cmd.Parameters.AddWithValue("@PFNumber", DBNull.Value)
    End If
End If
' You can set this value according to your logic
cmd.Parameters.AddWithValue("@ESINumber", TextBox11.Text)
cmd.Parameters.AddWithValue("@DEPARTMENT", ComboBox4.SelectedItem.ToString()) '
You can set this value according to your logic
con.Open()
cmd.ExecuteNonQuery()
Dim salaryForm As New SAL(empCode, empName, Department)
con.Close()
MessageBox.Show("Employee added successfully")
salaryForm.Show()
Me.Close()
End Sub

Private Function GetSelectedShiftTime() As String
    ' Retrieve the selected shift timing from the ComboBox
    Select Case ComboBox3.SelectedItem.ToString()
        Case "9-12"
            Return "09:00:00" ' Start time of the shift
        Case "12-4"
            Return "12:00:00"
        Case "4-7"
            Return "16:00:00"
        Case Else
            Return "00:00:00" ' Default value
    End Select
End Function

Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
    Me.Close()
    HOME.Show()
End Sub
Private Sub LoadCompanyDetails()
    ' SQL query to get the company name and address
    Dim query As String = "SELECT [COMPANY NAME], [PHONE] FROM [dbo].[COMPANY]"

    ' Create a connection and command object

```

```

Using connection As New SqlConnection(connectionString),
    command As New SqlCommand(query, connection)
Try
    ' Open the connection
    connection.Open()

    ' Execute the command and get the data reader
    Using reader As SqlDataReader = command.ExecuteReader()
        ' Check if there is a row to read
        If reader.Read() Then
            ' Get the name and address from the reader
            Dim companyName As String = reader("COMPANY NAME").ToString()
            Dim companyPHONE As String = reader("PHONE").ToString()

            ' Set the labels' text to the company details
            Label19.Text = companyName
            Label18.Text = companyPHONE
        Else
            ' Handle the case where no data is returned
            MessageBox.Show("No company details found.", "Information",
MessageBoxButtons.OK, MessageBoxIcon.Information)
        End If
    End Using

    Catch ex As Exception
        ' Handle any errors that might have occurred
        MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
"Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
    End Try
End Using
End Sub

End Class

```

## 5-SALARY STRUCTURE:-

```
Imports System.Data.SqlClient
Imports System.Reflection.Emit
```

```
Public Class SAL
```

```
    Private empCode As String
    Private empName As String
    Private Department As String
```

```
    Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"
```

```
    Public Sub New(empCode As String, empName As String, Department As String)
```

```
        InitializeComponent()
        Me.empCode = empCode
        Me.empName = empName
        Me.Department = Department
        Label12.Text = empCode
        Label13.Text = empName
        Label14.Text = Department
```

```
    End Sub
```

```
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
```

```
        Try
```

```
            Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"
```

```
            Using con As New SqlConnection(connectionString)
```

```
                con.Open()
```

```
                Dim sql As String = "INSERT INTO [dbo].[SALARY] ([EMPLOYEE_CODE], [DEPARTMENT], [DESIGNATION], [BASIC_SALARY], [DA], [HRA], [MEDICAL], [PERFORMANCE], [CONVEYANCE]) VALUES (@EmpCode, @Department, @Designation, @BasicSalary, @DA, @HRA, @Medical, @Performance, @Conveyance)"
```

```
                Using cmd As New SqlCommand(sql, con)
```

```
                    cmd.Parameters.AddWithValue("@EmpCode", empCode)
```

```
                    cmd.Parameters.AddWithValue("@Department", Department)
```

```
                    cmd.Parameters.AddWithValue("@Designation", TextBox1.Text)
```

```
                    cmd.Parameters.AddWithValue("@BasicSalary", If(Decimal.TryParse(TextBox2.Text, New Decimal), Decimal.Parse(TextBox2.Text), DBNull.Value))
```

```
                    cmd.Parameters.AddWithValue("@DA", If(Decimal.TryParse(TextBox3.Text, New Decimal), Decimal.Parse(TextBox3.Text), DBNull.Value))
```

```
                    cmd.Parameters.AddWithValue("@HRA", If(Decimal.TryParse(TextBox4.Text, New Decimal), Decimal.Parse(TextBox4.Text), DBNull.Value))
```

```
                    cmd.Parameters.AddWithValue("@Medical", If(Decimal.TryParse(TextBox5.Text, New Decimal), Decimal.Parse(TextBox5.Text), DBNull.Value))
```

```
                    cmd.Parameters.AddWithValue("@Performance", If(Decimal.TryParse(TextBox6.Text, New Decimal), Decimal.Parse(TextBox6.Text), DBNull.Value))
```

```
                    cmd.Parameters.AddWithValue("@Conveyance", If(Decimal.TryParse(TextBox7.Text, New Decimal), Decimal.Parse(TextBox7.Text), DBNull.Value))
```

```
                cmd.ExecuteNonQuery()
```

```
                MessageBox.Show("Salary details added successfully")
```

```
                Me.Close()
```

```
                HOME.Show()
```

```
            End Using
```

```
        End Using
```

```

Catch ex As Exception
    MessageBox.Show("Error inserting salary details: " & ex.Message)
End Try
End Sub

Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
    Me.Close()
    ADD.Show()
End Sub

Private Sub SAL_Load(sender As Object, e As EventArgs) Handles MyBase.Load
    LoadCompanyDetails()
End Sub
Private Sub LoadCompanyDetails()
    ' SQL query to get the company name and address
    Dim query As String = "SELECT [COMPANY NAME], [PHONE] FROM [dbo].[COMPANY]"

    ' Create a connection and command object
    Using connection As New SqlConnection(connectionString),
        command As New SqlCommand(query, connection)
    Try
        ' Open the connection
        connection.Open()

        ' Execute the command and get the data reader
        Using reader As SqlDataReader = command.ExecuteReader()
            ' Check if there is a row to read
            If reader.Read() Then
                ' Get the name and address from the reader
                Dim companyName As String = reader("COMPANY NAME").ToString()
                Dim companyPHONE As String = reader("PHONE").ToString()

                ' Set the labels' text to the company details
                Label18.Text = companyName
                Label17.Text = companyPHONE
            Else
                ' Handle the case where no data is returned
                MessageBox.Show("No company details found.", "Information",
                MessageBoxButtons.OK, MessageBoxIcon.Information)
            End If
        End Using
    Catch ex As Exception
        ' Handle any errors that might have occurred
        MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
        "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
    End Try
    End Using
End Sub

End Class

```

## 6-EDIT EMPLOYEE:-

Imports System.Data.SqlClient

Public Class SHOWW

Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Me.Close()
    HOME.Show()
End Sub
```

```
Private Sub SHOWW_Load(sender As Object, e As EventArgs) Handles MyBase.Load
    LoadDataIntoDataGridView()
    DataGridView1.AllowUserToAddRows = False
    DataGridView1.AllowUserToDeleteRows = False
    DataGridView1.ReadOnly = False
    LoadCompanyDetails()
End Sub
```

```
Private Sub LoadDataIntoDataGridView()
    Try
        Dim connection As New SqlConnection(connectionString)
        connection.Open()
        Dim query As String = "SELECT * FROM EMPLOYEE1"
        Dim adapter As New SqlDataAdapter(query, connection)
        Dim commandBuilder As New SqlCommandBuilder(adapter)
        Dim dataSet As New DataSet()
        adapter.Fill(dataSet, "EMPLOYEE")
        DataGridView1.DataSource = dataSet.Tables("EMPLOYEE")
        connection.Close()
    Catch ex As Exception
        MessageBox.Show("Error: " & ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
    End Try
End Sub
```

```
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
    ' Update the selected row
    If DataGridView1.SelectedRows.Count > 0 Then
        Try
            Dim row As DataGridViewRow = DataGridView1.SelectedRows(0)
            Dim employeeCode As String = row.Cells("EMPLOYEE_CODE").Value.ToString() ' Assuming "EMPLOYEE_CODE" is the unique column

            Dim updateQuery As String = "UPDATE EMPLOYEE1 SET "
            Dim parameters As New List(Of SqlParameter)

            For Each cell As DataGridViewCell In row.Cells
                If cell.OwningColumn.Name <> "EMPLOYEE_CODE" Then ' Skip the unique column
                    updateQuery &= cell.OwningColumn.Name & " = @" & cell.OwningColumn.Name & ", "
                    parameters.Add(New SqlParameter(@"& cell.OwningColumn.Name, cell.Value))
                End If
            Next
            updateQuery &= " WHERE EMPLOYEE_CODE = @" & employeeCode & ";"
            Dim cmd As New SqlCommand(updateQuery, connection)
            cmd.Parameters.AddRange(parameters.ToArray())
            cmd.ExecuteNonQuery()
        Catch ex As Exception
            MessageBox.Show("Error: " & ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
        End Try
    End If
End Sub
```

```

Next

' Remove the last comma and add the WHERE clause
updateQuery = updateQuery.TrimEnd(",","c, " "c) & " WHERE EMPLOYEE_CODE =
@EMPLOYEE_CODE"
parameters.Add(New SqlParameter("@EMPLOYEE_CODE", employeeCode))

Dim connection As New SqlConnection(connectionString)
Dim command As New SqlCommand(updateQuery, connection)
command.Parameters.AddRange(parameters.ToArray())
connection.Open()
command.ExecuteNonQuery()
connection.Close()
MessageBox.Show("Record updated successfully", "Success", MessageBoxButtons.OK,
MessageBoxIcon.Information)
Catch ex As Exception
    MessageBox.Show("Error: " & ex.Message, "Error", MessageBoxButtons.OK,
    MessageBoxIcon.Error)
End Try
Else
    MessageBox.Show("Please select a row to update", "Warning", MessageBoxButtons.OK,
    MessageBoxIcon.Warning)
End If
End Sub

Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
' Delete the selected row
If DataGridView1.SelectedRows.Count > 0 Then
    Try
        Dim row As DataGridViewRow = DataGridView1.SelectedRows(0)
        Dim employeeCode As String = row.Cells("EMPLOYEE_CODE").Value.ToString() '
Assuming "EMPLOYEE_CODE" is the unique column

        Dim connection As New SqlConnection(connectionString)
        Dim command As New SqlCommand("DELETE FROM EMPLOYEE1 WHERE
EMPLOYEE_CODE = @EMPLOYEE_CODE", connection)
        command.Parameters.AddWithValue("@EMPLOYEE_CODE", employeeCode)
        connection.Open()
        command.ExecuteNonQuery()
        connection.Close()
        DataGridView1.Rows.Remove(row)
        MessageBox.Show("Record deleted successfully", "Success", MessageBoxButtons.OK,
        MessageBoxIcon.Information)
        Catch ex As Exception
            MessageBox.Show("Error: " & ex.Message, "Error", MessageBoxButtons.OK,
            MessageBoxIcon.Error)
        End Try
    Else
        MessageBox.Show("Please select a row to delete", "Warning", MessageBoxButtons.OK,
        MessageBoxIcon.Warning)
    End If
End Sub
Private Sub LoadCompanyDetails()
' SQL query to get the company name and address

```

```

Dim query As String = "SELECT [COMPANY NAME], [PHONE] FROM [dbo].[COMPANY]"

' Create a connection and command object
Using connection As New SqlConnection(connectionString),
    command As New SqlCommand(query, connection)
Try
    ' Open the connection
    connection.Open()

    ' Execute the command and get the data reader
    Using reader As SqlDataReader = command.ExecuteReader()
        ' Check if there is a row to read
        If reader.Read() Then
            ' Get the name and address from the reader
            Dim companyName As String = reader("COMPANY NAME").ToString()
            Dim companyPHONE As String = reader("PHONE").ToString()

            ' Set the labels' text to the company details
            Label2.Text = companyName
            Label3.Text = companyPHONE
        Else
            ' Handle the case where no data is returned
            MessageBox.Show("No company details found.", "Information",
                MessageBoxButtons.OK, MessageBoxIcon.Information)
        End If
    End Using

Catch ex As Exception
    ' Handle any errors that might have occurred
    MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
        "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
End Try
End Using
End Sub
End Class

```

## 7-ADD SALARY STRUCTURE:-

Imports System.Data.SqlClient

Public Class SEARCH

Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

Private Sub Button2\_Click(sender As Object, e As EventArgs) Handles Button2.Click

Dim employeeCode As String = TextBox8.Text.Trim()

If IsNumeric(employeeCode) Then

If EmployeeCodeExists(Convert.ToInt32(employeeCode)) Then

GroupBox1.Visible = True

Panel2.Visible = True

Panel1.Visible = False

FetchEmployeeData(employeeCode)

' Fetch department and add data to the salary table

Else

MessageBox.Show("Employee code does not exist.", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)

End If

Else

MessageBox.Show("Please enter a valid numeric employee code.", "Invalid Input", MessageBoxButtons.OK, MessageBoxIcon.Warning)

End If

End Sub

Private Sub FetchEmployeeData(employeeCode As String)

Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

Dim query As String = "SELECT EMPLOYEE\_CODE,EMPLOYEE\_NAME, DEPARTMENT FROM EMPLOYEE1 WHERE EMPLOYEE\_CODE = @EmployeeCode"

Using connection As New SqlConnection(connectionString)

Using command As New SqlCommand(query, connection)

command.Parameters.AddWithValue("@EmployeeCode", employeeCode)



```

connection.Open()
Using reader As SqlDataReader = command.ExecuteReader()
    If reader.HasRows Then
        reader.Read()
        Label11.Text = reader("EMPLOYEE_CODE").ToString()
        Label13.Text = reader("EMPLOYEE_NAME").ToString()
        Label15.Text = reader("DEPARTMENT").ToString()

        GroupBox1.Visible = True
    Else
        MessageBox.Show("Employee not found.", "Error", MessageBoxButtons.OK,
        MessageBoxIcon.Error)
        GroupBox1.Visible = False
    End If
End Using
End Using
End Using
End Sub

Private Function EmployeeCodeExists(employeeCode As Integer) As Boolean
    Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial
    Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

    Dim query As String = "SELECT COUNT(*) FROM EMPLOYEE1 WHERE
    EMPLOYEE_CODE = @EmployeeCode"

    Using connection As New SqlConnection(connectionString)
        Using command As New SqlCommand(query, connection)
            command.Parameters.AddWithValue("@EmployeeCode", employeeCode)
            connection.Open()
            Dim count As Integer = Convert.ToInt32(command.ExecuteScalar())
            Return count > 0
        End Using
    End Using
End Function

Private Function GetEmployeeDepartment(employeeCode As Integer) As String

```

```
Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"
```

```
Dim query As String = "SELECT DEPARTMENT FROM EMPLOYEE1 WHERE EMPLOYEE_CODE = @EmployeeCode"
```

```
Using connection As New SqlConnection(connectionString)
```

```
Using command As New SqlCommand(query, connection)
```

```
command.Parameters.AddWithValue("@EmployeeCode", employeeCode)
```

```
connection.Open()
```

```
Dim department As Object = command.ExecuteScalar()
```

```
If department IsNot Nothing Then
```

```
Return department.ToString()
```

```
Else
```

```
Return String.Empty
```

```
End If
```

```
End Using
```

```
End Using
```

```
End Function
```

```
Private Function SalaryDataExists(employeeCode As Integer) As Boolean
```

```
Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"
```

```
Dim query As String = "SELECT COUNT(*) FROM SALARY WHERE EMPLOYEE_CODE = @EmployeeCode"
```

```
Using connection As New SqlConnection(connectionString)
```

```
Using command As New SqlCommand(query, connection)
```

```
command.Parameters.AddWithValue("@EmployeeCode", employeeCode)
```

```
connection.Open()
```

```
Dim count As Integer = Convert.ToInt32(command.ExecuteScalar())
```

```
Return count > 0
```

```
End Using
```

```
End Using
```

```
End Function
```

```
Private Sub AddSalaryData(empCode As Integer, Department As String, Designation As String, BasicSalary As String, DA As String, HRA As String, Medical As String, Performance As String, Conveyance As String)
```

```
Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"
```

Try

Using con As New SqlConnection(connectionString)

con.Open()

Dim sql As String = "INSERT INTO [dbo].[SALARY] ([EMPLOYEE\_CODE],  
[DEPARTMENT], [DESIGNATION], [BASIC\_SALARY], [DA], [HRA], [MEDICAL],  
[PERFORMANCE], [CONVEYANCE]) VALUES (@EmpCode, @Department, @Designation,  
@BasicSalary, @DA, @HRA, @Medical, @Performance, @Conveyance)"

Using cmd As New SqlCommand(sql, con)

cmd.Parameters.AddWithValue("@EmpCode", empCode)

cmd.Parameters.AddWithValue("@Department", Department)

cmd.Parameters.AddWithValue("@Designation", Designation)

cmd.Parameters.AddWithValue("@BasicSalary", If(Decimal.TryParse(BasicSalary, New  
Decimal), Decimal.Parse(BasicSalary), DBNull.Value))

cmd.Parameters.AddWithValue("@DA", If(Decimal.TryParse(DA, New Decimal),  
Decimal.Parse(DA), DBNull.Value))

cmd.Parameters.AddWithValue("@HRA", If(Decimal.TryParse(HRA, New Decimal),  
Decimal.Parse(HRA), DBNull.Value))

cmd.Parameters.AddWithValue("@Medical", If(Decimal.TryParse(Medical, New  
Decimal), Decimal.Parse(Medical), DBNull.Value))

cmd.Parameters.AddWithValue("@Performance", If(Decimal.TryParse(Performance,  
New Decimal), Decimal.Parse(Performance), DBNull.Value))

cmd.Parameters.AddWithValue("@Conveyance", If(Decimal.TryParse(Conveyance,  
New Decimal), Decimal.Parse(Conveyance), DBNull.Value))

cmd.ExecuteNonQuery()

MessageBox.Show("Salary details added successfully")

End Using

End Using

Catch ex As Exception

MessageBox.Show("Error inserting salary details: " & ex.Message)

End Try

End Sub

Private Sub SEARCH\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

GroupBox1.Visible = False

Panel2.Visible = False

```
If GroupBox1.Visible = True Then
```

```
    Panel1.Visible = False
```

```
Else
```

```
    Panel1.Visible = True
```

```
End If
```

```
LoadCompanyDetails()
```

```
End Sub
```

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
```

```
    Dim employeeCode As String = TextBox8.Text.Trim()
```

```
    If IsNumeric(employeeCode) Then
```

```
        Dim empCode As Integer = Convert.ToInt32(employeeCode)
```

```
        If Not SalaryDataExists(empCode) Then
```

```
            Dim department As String = GetEmployeeDepartment(empCode)
```

```
            If Not String.IsNullOrEmpty(department) Then
```

```
                AddSalaryData(empCode, department, TextBox1.Text, TextBox2.Text, TextBox3.Text,  
TextBox4.Text, TextBox5.Text, TextBox6.Text, TextBox7.Text)
```

```
            Else
```

```
                MessageBox.Show("Department not found for the given employee code.", "Error",  
MessageBoxButtons.OK, MessageBoxIcon.Error)
```

```
            End If
```

```
        Else
```

```
            MessageBox.Show("Salary data already exists for the given employee code.", "Data  
Exists", MessageBoxButtons.OK, MessageBoxIcon.Information)
```

```
        End If
```

```
    Else
```

```
        MessageBox.Show("Please enter a valid numeric employee code.", "Invalid Input",  
MessageBoxButtons.OK, MessageBoxIcon.Warning)
```

```
    End If
```

```
End Sub
```

```
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
```

```
    Me.Close()
```

```
    HOME.Show()
```

```
End Sub
```

```

Private Sub LoadCompanyDetails()
    ' SQL query to get the company name and address
    Dim query As String = "SELECT [COMPANY NAME], [PHONE] FROM [dbo].[COMPANY]"
    ' Create a connection and command object
    Using connection As New SqlConnection(connectionString),
        command As New SqlCommand(query, connection)
    Try
        ' Open the connection
        connection.Open()
        ' Execute the command and get the data reader
        Using reader As SqlDataReader = command.ExecuteReader()
            ' Check if there is a row to read
            If reader.Read() Then
                ' Get the name and address from the reader
                Dim companyName As String = reader("COMPANY NAME").ToString()
                Dim companyPHONE As String = reader("PHONE").ToString()
                ' Set the labels' text to the company details
                Label18.Text = companyName
                Label17.Text = companyPHONE
            Else
                ' Handle the case where no data is returned
                MessageBox.Show("No company details found.", "Information",
                MessageBoxButtons.OK, MessageBoxIcon.Information)
            End If
        End Using
    Catch ex As Exception
        ' Handle any errors that might have occurred
        MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
        "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
    End Try
End Using
End Sub

End Class

```

## 8-COMPENSATION FRAMEWORK:-

Imports System.Data.SqlClient

Public Class PARAMETER

Private connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

Try

Using con As New SqlConnection(connectionString)

con.Open()

Dim sql As String = "UPDATE [dbo].[PARAMETER] SET

[PF LIMIT] = @PF\_Limit,

[PF EMPLOYEE RATE] = @PF\_Employee\_Rate,

[PF EMPLOYER RATE] = @PF\_Employer\_Rate,

[ESI LIMIT] = @ESI\_Limit,

[ESI EMPLOYEE RATE] = @ESI\_Employee\_Rate,

[ESI EMPLOYER RATE] = @ESI\_Employer\_Rate"

Using cmd As New SqlCommand(sql, con)

' Parsing and adding parameters

cmd.Parameters.AddWithValue("@PF\_Limit", If(Decimal.TryParse(TextBox1.Text, New Decimal), Decimal.Parse(TextBox1.Text), DBNull.Value))

cmd.Parameters.AddWithValue("@PF\_Employee\_Rate", If(Decimal.TryParse(TextBox2.Text, New Decimal), Decimal.Parse(TextBox2.Text), DBNull.Value))

cmd.Parameters.AddWithValue("@PF\_Employer\_Rate", If(Decimal.TryParse(TextBox3.Text, New Decimal), Decimal.Parse(TextBox3.Text), DBNull.Value))

cmd.Parameters.AddWithValue("@ESI\_Limit", If(Decimal.TryParse(TextBox4.Text, New Decimal), Decimal.Parse(TextBox4.Text), DBNull.Value))

cmd.Parameters.AddWithValue("@ESI\_Employee\_Rate", If(Decimal.TryParse(TextBox5.Text, New Decimal), Decimal.Parse(TextBox5.Text), DBNull.Value))

cmd.Parameters.AddWithValue("@ESI\_Employer\_Rate", If(Decimal.TryParse(TextBox6.Text, New Decimal), Decimal.Parse(TextBox6.Text), DBNull.Value))

' Execute the update command

cmd.ExecuteNonQuery()

MessageBox.Show("Compensation parameters updated successfully")

End Using

End Using

Catch ex As Exception

MessageBox.Show("Error updating compensation parameters: " & ex.Message)

End Try

End Sub

Private Sub Button2\_Click(sender As Object, e As EventArgs) Handles Button2.Click

Me.Close()

HOME.Show()

End Sub

```

Private Sub PARAMETER_Load(sender As Object, e As EventArgs) Handles MyBase.Load
    LoadCompanyDetails()
    LoadParameterValues()
End Sub

Private Sub LoadCompanyDetails()
    ' SQL query to get the company name and address
    Dim query As String = "SELECT [COMPANY NAME], [PHONE] FROM [dbo].[COMPANY]"

    ' Create a connection and command object
    Using connection As New SqlConnection(connectionString),
        command As New SqlCommand(query, connection)
    Try
        ' Open the connection
        connection.Open()

        ' Execute the command and get the data reader
        Using reader As SqlDataReader = command.ExecuteReader()
            ' Check if there is a row to read
            If reader.Read() Then
                ' Get the name and address from the reader
                Dim companyName As String = reader("COMPANY NAME").ToString()
                Dim companyPHONE As String = reader("PHONE").ToString()

                ' Set the labels' text to the company details
                Label10.Text = companyName
                Label9.Text = companyPHONE
            Else
                ' Handle the case where no data is returned
                MessageBox.Show("No company details found.", "Information",
                    MessageBoxButtons.OK, MessageBoxIcon.Information)
            End If
        End Using

    Catch ex As Exception
        ' Handle any errors that might have occurred
        MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
            "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
    End Try
End Using
End Sub

Private Sub LoadParameterValues()
    ' SQL query to get the parameter values
    Dim query As String = "SELECT [PF LIMIT], [PF EMPLOYEE RATE], [PF EMPLOYER RATE], [ESI LIMIT], [ESI EMPLOYEE RATE], [ESI EMPLOYER RATE] FROM [dbo].[PARAMETER]"

    ' Create a connection and command object
    Using connection As New SqlConnection(connectionString),
        command As New SqlCommand(query, connection)
    Try
        ' Open the connection
        connection.Open()

```

```

' Execute the command and get the data reader
Using reader As SqlDataReader = command.ExecuteReader()
' Check if there is a row to read
If reader.Read() Then
    ' Get the parameter values from the reader
    TextBox1.Text = reader("PF LIMIT").ToString()
    TextBox2.Text = reader("PF EMPLOYEE RATE").ToString()
    TextBox3.Text = reader("PF EMPLOYER RATE").ToString()
    TextBox4.Text = reader("ESI LIMIT").ToString()
    TextBox5.Text = reader("ESI EMPLOYEE RATE").ToString()
    TextBox6.Text = reader("ESI EMPLOYER RATE").ToString()
Else
    ' Handle the case where no data is returned
    MessageBox.Show("No parameter values found.", "Information",
        MessageBoxButtons.OK, MessageBoxIcon.Information)
End If
End Using

Catch ex As Exception
    ' Handle any errors that might have occurred
    MessageBox.Show("An error occurred while fetching parameter values: " & ex.Message,
        "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
End Try
End Using
End Sub
End Class

```



## 9-EDIT SALARY STRUCTURE:-

```
Imports System.Data.SqlClient
Imports System.Reflection.Emit
```

```
Public Class SALARY_EDIT
```

```
    Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial
    Catalog=PAYROLL;Integrated Security=True;Encrypt=False"
```

```
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Me.Close()
        HOME.Show()
    End Sub
```

```
    Private Sub SHOWW_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        LoadDataIntoDataGridView()
        DataGridView1.AllowUserToAddRows = False
        DataGridView1.AllowUserToDeleteRows = False
        DataGridView1.ReadOnly = False
        LoadCompanyDetails()
    End Sub
```

```
    Private Sub LoadDataIntoDataGridView()
        Try
            Dim connection As New SqlConnection(connectionString)
            connection.Open()
            Dim query As String = "SELECT * FROM SALARY"
            Dim adapter As New SqlDataAdapter(query, connection)
            Dim commandBuilder As New SqlCommandBuilder(adapter)
            Dim dataSet As New DataSet()
            adapter.Fill(dataSet, "SALARY")
            DataGridView1.DataSource = dataSet.Tables("SALARY")
            connection.Close()
        Catch ex As Exception
            MessageBox.Show("Error: " & ex.Message, "Error", MessageBoxButtons.OK,
            MessageBoxIcon.Error)
        End Try
    End Sub
```

```
    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
        ' Update the selected row
        If DataGridView1.SelectedRows.Count > 0 Then
            Try
                Dim row As DataGridViewRow = DataGridView1.SelectedRows(0)
                Dim employeeCode As String = row.Cells("EMPLOYEE_CODE").Value.ToString() '
                Assuming "EMPLOYEE_CODE" is the unique column
```

```
                Dim updateQuery As String = "UPDATE SALARY SET "
                Dim parameters As New List(Of SqlParameter)

                For Each cell As DataGridViewCell In row.Cells
                    If cell.OwningColumn.Name <> "EMPLOYEE_CODE" Then ' Skip the unique column
                        updateQuery &= cell.OwningColumn.Name & " = @" & cell.OwningColumn.Name &
                        ", "
```

```

        parameters.Add(New SqlParameter("@ " & cell.OwningColumn.Name, cell.Value))
    End If
Next

' Remove the last comma and add the WHERE clause
updateQuery = updateQuery.TrimEnd(",","c, " "c) & " WHERE EMPLOYEE_CODE =
@EMPLOYEE_CODE"
parameters.Add(New SqlParameter("@EMPLOYEE_CODE", employeeCode))

Dim connection As New SqlConnection(connectionString)
Dim command As New SqlCommand(updateQuery, connection)
command.Parameters.AddRange(parameters.ToArray())
connection.Open()
command.ExecuteNonQuery()
connection.Close()
MessageBox.Show("Record updated successfully", "Success", MessageBoxButtons.OK,
MessageBoxIcon.Information)
Catch ex As Exception
    MessageBox.Show("Error: " & ex.Message, "Error", MessageBoxButtons.OK,
MessageBoxIcon.Error)
End Try
Else
    MessageBox.Show("Please select a row to update", "Warning", MessageBoxButtons.OK,
MessageBoxIcon.Warning)
End If
End Sub

Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
    ' Delete the selected row
    If DataGridView1.SelectedRows.Count > 0 Then
        Try
            Dim row As DataGridViewRow = DataGridView1.SelectedRows(0)
            Dim employeeCode As String = row.Cells("EMPLOYEE_CODE").Value.ToString() '
Assuming "EMPLOYEE_CODE" is the unique column

            Dim connection As New SqlConnection(connectionString)
            Dim command As New SqlCommand("DELETE FROM SALARY WHERE
EMPLOYEE_CODE = @EMPLOYEE_CODE", connection)
            command.Parameters.AddWithValue("@EMPLOYEE_CODE", employeeCode)
            connection.Open()
            command.ExecuteNonQuery()
            connection.Close()
            DataGridView1.Rows.Remove(row)
            MessageBox.Show("Record deleted successfully", "Success", MessageBoxButtons.OK,
MessageBoxIcon.Information)
            Catch ex As Exception
                MessageBox.Show("Error: " & ex.Message, "Error", MessageBoxButtons.OK,
MessageBoxIcon.Error)
            End Try
        Else
            MessageBox.Show("Please select a row to delete", "Warning", MessageBoxButtons.OK,
MessageBoxIcon.Warning)
        End If
    End Sub
Private Sub LoadCompanyDetails()

```

```

' SQL query to get the company name and address
Dim query As String = "SELECT [COMPANY NAME], [PHONE] FROM [dbo].[COMPANY]"

' Create a connection and command object
Using connection As New SqlConnection(connectionString),
    command As New SqlCommand(query, connection)
    Try
        ' Open the connection
        connection.Open()

        ' Execute the command and get the data reader
        Using reader As SqlDataReader = command.ExecuteReader()
            ' Check if there is a row to read
            If reader.Read() Then
                ' Get the name and address from the reader
                Dim companyName As String = reader("COMPANY NAME").ToString()
                Dim companyPHONE As String = reader("PHONE").ToString()

                ' Set the labels' text to the company details
                Label2.Text = companyName
                Label3.Text = companyPHONE
            Else
                ' Handle the case where no data is returned
                MessageBox.Show("No company details found.", "Information",
                    MessageBoxButtons.OK, MessageBoxIcon.Information)
            End If
        End Using

    Catch ex As Exception
        ' Handle any errors that might have occurred
        MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
            "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
    End Try
End Using
End Sub
End Class

```

## 10-COMPANY BRANDING:-

Imports System.Data.SqlClient

Public Class COMPANY

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

Me.Close()

HOME.Show()

End Sub

Private Sub Button2\_Click(sender As Object, e As EventArgs) Handles Button2.Click

' Define your connection string (update as needed)

Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

' Initialize variables for the new values

' Initialize variables for the new values

Dim newCompanyName As String = TextBox1.Text.Trim()

Dim newAddress As String = TextBox2.Text.Trim()

Dim newPhoneNumber As String = TextBox3.Text.Trim()

' Initialize variables to hold current values

Dim currentCompanyName As String = String.Empty

Dim currentAddress As String = String.Empty

Dim currentPhoneNumber As String = String.Empty

' Retrieve current values from the database

Using connection As New SqlConnection(connectionString)

Dim selectCommand As New SqlCommand("SELECT [COMPANY NAME], [ADDRESS], [PHONE] FROM COMPANY", connection)

connection.Open()

Using reader As SqlDataReader = selectCommand.ExecuteReader()

If reader.Read() Then

currentCompanyName = reader("COMPANY NAME").ToString()

currentAddress = reader("ADDRESS").ToString()

currentPhoneNumber = reader("PHONE").ToString()

End If

End Using

End Using

' Update the values only if the textboxes are not empty

If String.IsNullOrEmpty(newCompanyName) Then

newCompanyName = currentCompanyName

End If

If String.IsNullOrEmpty(newAddress) Then

newAddress = currentAddress

End If

If String.IsNullOrEmpty(newPhoneNumber) Then

```

        newPhoneNumber = currentPhoneNumber
    End If

    ' Update the database with the new values
    Using connection As New SqlConnection(connectionString)
        Dim updateCommand As New SqlCommand("UPDATE COMPANY SET [COMPANY
NAME] = @CompanyName, [ADDRESS] = @Address, [PHONE] = @Phone", connection)
        updateCommand.Parameters.AddWithValue("@CompanyName", newCompanyName)
        updateCommand.Parameters.AddWithValue("@Address", newAddress)
        updateCommand.Parameters.AddWithValue("@Phone", newPhoneNumber)

        connection.Open()
        updateCommand.ExecuteNonQuery()
    End Using

    ' Show a message indicating success
    MessageBox.Show("Company details updated successfully.")
End Sub
End Class

```

## 11-TRANSACTION:-

Imports System.Data.SqlClient

Imports System.Globalization

Public Class TRANS

Private Sub Form\_Load()

    ' Populate Month ComboBox

    Label45.Text = "0"

    For i As Integer = 1 To 12

        ComboBox1.Items.Add(MonthName(i))

    Next

    ' Set default values to current month and year

    ComboBox1.SelectedIndex = DateTime.Now.Month - 1

    TextBox1.Text = DateTime.Now.Year.ToString()

End Sub

Private Sub TRANS\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

    GroupBox1.Visible = False

    Label35.Visible = False

    Form\_Load()

    LoadCompanyDetails()

End Sub

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

    Dim month As Integer = ComboBox1.SelectedIndex + 1

    Dim year As Integer = Integer.Parse(TextBox1.Text)

    DisplayPFAndESIRates()

    Dim employeeCode As String = TextBox2.Text

    GroupBox1.Visible = True

    If String.IsNullOrEmpty(employeeCode) Then

        MessageBox.Show("Please enter the employee code.")

        Return

    End If

' Fetch and display employee and salary details

FetchEmployeeDetails(employeeCode)

FetchSalaryDetails(employeeCode)

DisplayMonthDetails(month, year)

UpdatePF()

UpdateESI()

End Sub

Private Sub FetchEmployeeDetails(employeeCode As String)

Dim connString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

Dim query As String = "SELECT EMPLOYEE\_NAME, Department FROM Employee1 WHERE Employee\_Code = @EmployeeCode"

Using conn As New SqlConnection(connString)

Using cmd As New SqlCommand(query, conn)

cmd.Parameters.AddWithValue("@EmployeeCode", employeeCode)

conn.Open()

Using reader As SqlDataReader = cmd.ExecuteReader()

If reader.Read() Then

Label5.Text = reader("EMPLOYEE\_NAME").ToString()

Label7.Text = reader("Department").ToString()

Else

MessageBox.Show("Employee not found.")

End If

End Using

End Using

End Using

End Sub

Private Sub FetchSalaryDetails(employeeCode As String)

Dim connString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

```
Dim query As String = "SELECT Basic_Salary, DA, HRA, Medical, Performance, Conveyance  
FROM Salary WHERE Employee_Code = @EmployeeCode"
```

```
Using conn As New SqlConnection(connString)
```

```
Using cmd As New SqlCommand(query, conn)
```

```
cmd.Parameters.AddWithValue("@EmployeeCode", employeeCode)
```

```
conn.Open()
```

```
Using reader As SqlDataReader = cmd.ExecuteReader()
```

```
If reader.Read() Then
```

```
Label8.Text = reader("Basic_Salary").ToString()
```

```
Label9.Text = reader("DA").ToString()
```

```
Label10.Text = reader("HRA").ToString()
```

```
Label11.Text = reader("Medical").ToString()
```

```
Label12.Text = reader("Performance").ToString()
```

```
Label13.Text = reader("Conveyance").ToString()
```

```
Else
```

```
MessageBox.Show("Salary details not found.")
```

```
End If
```

```
End Using
```

```
End Using
```

```
End Using
```

```
End Sub
```

```
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
```

```
Me.Close()
```

```
HOME.Show()
```

```
End Sub
```

```
Private Sub LoadCompanyDetails()
```

```
Dim connString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial  
Catalog=PAYROLL;Integrated Security=True;Encrypt=False"
```

```
' SQL query to get the company name and address
```

```
Dim query As String = "SELECT [COMPANY NAME], [PHONE] FROM [dbo].[COMPANY]"
```



```

' Create a connection and command object
Using connection As New SqlConnection(connString),
    command As New SqlCommand(query, connection)
Try
    ' Open the connection
    connection.Open()

    ' Execute the command and get the data reader
    Using reader As SqlDataReader = command.ExecuteReader()
        ' Check if there is a row to read
        If reader.Read() Then
            ' Get the name and address from the reader
            Dim companyName As String = reader("COMPANY NAME").ToString()
            Dim companyPHONE As String = reader("PHONE").ToString()

            ' Set the labels' text to the company details
            Label44.Text = companyName
            Label43.Text = companyPHONE
        Else
            ' Handle the case where no data is returned
            MessageBox.Show("No company details found.", "Information",
                MessageBoxButtons.OK, MessageBoxIcon.Information)
        End If
    End Using

Catch ex As Exception
    ' Handle any errors that might have occurred
    MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
        "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
End Try
End Using
End Sub

Private Sub DisplayMonthDetails(month As String, year As Integer)
    Dim daysInMonth As Integer = DateTime.DaysInMonth(year, month)

```

```

Dim sundays As Integer = CountSundays(month, year)
Dim daysWithoutSundays As Integer = daysInMonth - sundays

Label2.Text = daysInMonth.ToString()
Label40.Text = sundays.ToString()
Label41.Text = daysWithoutSundays.ToString()
End Sub

Private Function CountSundays(month As String, year As Integer) As Integer
    Dim sundays As Integer = 0
    Dim daysInMonth As Integer = DateTime.DaysInMonth(year, month)

    For day As Integer = 1 To daysInMonth
        Dim currentDate As New DateTime(year, month, day)
        If currentDate.DayOfWeek = DayOfWeek.Sunday Then
            sundays += 1
        End If
    Next

    Return sundays
End Function

Private Sub UpdateUnpaidLeave()
    Try
        ' Convert TextBox inputs to numbers
        Dim dutyDay As Integer = If(String.IsNullOrEmpty(TextBox3.Text), 0, Integer.Parse(TextBox3.Text))
        Dim earlyLeave As Integer = If(String.IsNullOrEmpty(TextBox4.Text), 0, Integer.Parse(TextBox4.Text))
        Dim casualLeave As Integer = If(String.IsNullOrEmpty(TextBox5.Text), 0, Integer.Parse(TextBox5.Text))
        Dim holiday As Integer = If(String.IsNullOrEmpty(TextBox6.Text), 0, Integer.Parse(TextBox6.Text))
        Dim deductedValue As Integer = If(String.IsNullOrEmpty(Label41.Text), 0, Integer.Parse(Label41.Text))

        ' Calculate total leave taken
    
```

```

Dim totalLeaveTaken As Integer = dutyDay + earlyLeave + casualLeave + holiday

' Calculate unpaid leave
Dim unpaidLeave As Integer = deductedValue - totalLeaveTaken

' Display unpaid leave
Label45.Text = unpaidLeave.ToString()

Catch ex As Exception
    MessageBox.Show("Error: " & ex.Message, "Error", MessageBoxButtons.OK,
        MessageBoxIcon.Error)
End Try
End Sub

Private Sub TextBox_TextChanged(sender As Object, e As EventArgs) Handles
    TextBox3.TextChanged, TextBox4.TextChanged, TextBox5.TextChanged, TextBox6.TextChanged
    UpdateUnpaidLeave()
End Sub

Private Sub DisplayPFAndESIRates()
    Dim connString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial
        Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

    ' Create a connection and command object
    Dim connection As New SqlConnection(connString)

    Try
        ' Open connection
        connection.Open()

        ' Query to fetch PF rate from parameter table
        Dim queryPF As String = "SELECT [PF EMPLOYEE RATE] FROM Parameter"
        Dim commandPF As SqlCommand = New SqlCommand(queryPF, connection)
    
```

```

100 Dim pfRate As Decimal = Convert.ToDecimal(commandPF.ExecuteScalar()) / 100 ' Divide by

Label33.Text = pfRate.ToString()

' Query to fetch ESI rate from parameter table
Dim queryESI As String = "SELECT [ESI EMPLOYEE RATE] FROM Parameter"
Dim commandESI As SqlCommand = New SqlCommand(queryESI, connection)
Dim esiRate As Decimal = Convert.ToDecimal(commandESI.ExecuteScalar()) / 100 ' Divide
by 100
Label34.Text = esiRate.ToString()

Catch ex As Exception

    MessageBox.Show("Error fetching rates from database: " & ex.Message, "Error",
    MessageBoxButtons.OK, MessageBoxIcon.Error)

Finally

    ' Close connection
    connection.Close()

End Try
End Sub

Private Sub UpdatePF()

    Dim connString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial
    Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

    ' Create a connection and command object
    Dim connection As New SqlConnection(connString)
    Try
        connection.Open()
        ' Convert Label8 and Label9 values to decimals
        Dim label8Value As Decimal = Decimal.Parse(Label8.Text)
        Dim label9Value As Decimal = Decimal.Parse(Label9.Text)

        ' Check if Label8 value is greater than 21000
        If label8Value > 21000 Then

```

```

' Query to fetch PF rate from parameter table
Dim queryPF As String = "SELECT [PF EMPLOYEE RATE] FROM Parameter"
Dim commandPF As SqlCommand = New SqlCommand(queryPF, connection)
Dim pfRate As Decimal = Convert.ToDecimal(commandPF.ExecuteScalar()) / 100 ' Divide
by 100

' Calculate PF amount
Dim pfAmount As Decimal = (label8Value + label9Value) * pfRate

' Display PF amount in Label31
Label31.Text = pfAmount.ToString()
Else
' If Label8 value is not greater than 21000, set Label31 value to zero
Label31.Text = "0"
End If
Catch ex As Exception
    MessageBox.Show("Error calculating PF: " & ex.Message, "Error", MessageBoxButtons.OK,
    MessageBoxIcon.Error)
End Try
End Sub

Private Sub UpdateESI()
    Dim connString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial
    Catalog=PAYROLL;Integrated Security=True;Encrypt=False"
    Dim connection As New SqlConnection(connString)
    Try
        connection.Open()
        Dim label8Value As Decimal = Decimal.Parse(Label8.Text)
        Dim label9Value As Decimal = Decimal.Parse(Label9.Text)

' Query to fetch ESI rate from parameter table
Dim queryESI As String = "SELECT [ESI EMPLOYEE RATE] FROM Parameter"
Dim commandESI As SqlCommand = New SqlCommand(queryESI, connection)
Dim esiRate As Decimal = Convert.ToDecimal(commandESI.ExecuteScalar()) / 100 ' Divide
by 100

```

```

' Calculate ESI amount
Dim esiAmount As Decimal = (label8Value + label9Value) * esiRate

' Display ESI amount in Label32
Label32.Text = esiAmount.ToString()

Catch ex As Exception
    MessageBox.Show("Error calculating ESI: " & ex.Message, "Error", MessageBoxButtons.OK,
    MessageBoxIcon.Error)
End Try
End Sub

Private Sub UpdateTotalDaysWorked()
    Try
        ' Convert TextBox inputs to integers
        Dim textBox1Value As Integer = If(String.IsNullOrEmpty(TextBox3.Text), 0,
Integer.Parse(TextBox3.Text))
        Dim textBox2Value As Integer = If(String.IsNullOrEmpty(TextBox4.Text), 0,
Integer.Parse(TextBox4.Text))
        Dim textBox3Value As Integer = If(String.IsNullOrEmpty(TextBox5.Text), 0,
Integer.Parse(TextBox5.Text))
        Dim textBox4Value As Integer = If(String.IsNullOrEmpty(TextBox6.Text), 0,
Integer.Parse(TextBox6.Text))

        ' Convert Label45 value to integer
        Dim label45Value As Integer = If(String.IsNullOrEmpty(Label45.Text), 0,
Integer.Parse(Label45.Text))

        ' Calculate total days worked
        Dim totalDaysWorked As Integer = (textBox1Value + textBox2Value + textBox3Value +
textBox4Value)

        ' Display total days worked in LabelXX (replace XX with the appropriate label number)

        ' Calculate salary
        Dim salary As Decimal = 0

        Dim labelValuesSum As Decimal = Decimal.Parse(Label8.Text) +
Decimal.Parse(Label9.Text) + Decimal.Parse(Label10.Text) +

```

```
Decimal.Parse(Label11.Text) + Decimal.Parse(Label12.Text) +  
Decimal.Parse(Label13.Text)
```

```
Dim label2Value As Decimal = If(String.IsNullOrEmpty(Label41.Text), 0,  
Decimal.Parse(Label41.Text))
```

```
If label2Value <> 0 Then
```

```
    salary = (labelValuesSum / label2Value) * totalDaysWorked
```

```
End If
```

```
' Display salary in LabelYY (replace YY with the appropriate label number)
```

```
Dim textBox7Value As Integer = If(String.IsNullOrEmpty(TextBox8.Text), 0,  
Integer.Parse(TextBox8.Text))
```

```
Dim textBox8Value As Integer = If(String.IsNullOrEmpty(TextBox9.Text), 0,  
Integer.Parse(TextBox9.Text))
```

```
Dim textBox5Value As Integer = If(String.IsNullOrEmpty(TextBox10.Text), 0,  
Integer.Parse(TextBox10.Text))
```

```
Dim textBox6Value As Integer = If(String.IsNullOrEmpty(TextBox11.Text), 0,  
Integer.Parse(TextBox11.Text))
```

```
' Convert Label45 value to integer
```

```
Dim label8Value As Integer = If(String.IsNullOrEmpty(Label31.Text), 0,  
Decimal.Parse(Label31.Text))
```

```
Dim label9Value As Integer = If(String.IsNullOrEmpty(Label32.Text), 0,  
Decimal.Parse(Label32.Text))
```

```
Dim totalDEDUCTION As Integer = (textBox7Value + textBox8Value + textBox5Value +  
textBox6Value + label8Value + label9Value)
```

```
Dim TOTALSALARY As Integer = salary - totalDEDUCTION
```

```
Label35.Text = TOTALSALARY.ToString()
```

```
Catch ex As Exception
```

```
    MessageBox.Show("Error calculating total days worked and salary: " & ex.Message, "Error",  
MessageBoxButtons.OK, MessageBoxIcon.Error)
```

```
End Try
```

```
End Sub
```

```

Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
    Label35.Visible = True
    UpdateTotalDaysWorked()
    AddOrUpdateTransaction()
End Sub

Private Sub AddOrUpdateTransaction()
    Dim connString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial
Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

    Dim connection As New SqlConnection(connString)

    Try

        ' Convert inputs to appropriate data types
        Dim employeeCode As Integer
        If Integer.TryParse(TextBox2.Text, employeeCode) = False Then employeeCode = 0

        Dim month As String = If(ComboBox1.SelectedItem IsNot Nothing,
ComboBox1.SelectedItem.ToString(), String.Empty)

        Dim year As Integer
        If Integer.TryParse(TextBox1.Text, year) = False Then year = 0

        Dim workingDay As Integer
        If Integer.TryParse(TextBox3.Text, workingDay) = False Then workingDay = 0

        Dim holiday As Integer
        If Integer.TryParse(TextBox4.Text, holiday) = False Then holiday = 0

        Dim earlyLeave As Integer
        If Integer.TryParse(TextBox5.Text, earlyLeave) = False Then earlyLeave = 0

        Dim casualLeave As Integer
        If Integer.TryParse(TextBox6.Text, casualLeave) = False Then casualLeave = 0

        Dim leaveWithoutPay As Integer

```



If Integer.TryParse(Label45.Text, leaveWithoutPay) = False Then leaveWithoutPay = 0

Dim tds As Decimal

If Decimal.TryParse(TextBox8.Text, tds) = False Then tds = 0

Dim advance As Decimal

If Decimal.TryParse(TextBox9.Text, advance) = False Then advance = 0

Dim loanFromBank As Decimal

If Decimal.TryParse(TextBox10.Text, loanFromBank) = False Then loanFromBank = 0

Dim loanFromCompany As Decimal

If Decimal.TryParse(TextBox11.Text, loanFromCompany) = False Then loanFromCompany = 0

Dim totalSalary As Decimal

If Decimal.TryParse(Label35.Text, totalSalary) = False Then totalSalary = 0

' Open the connection

connection.Open()

' Check if record exists

Dim queryCheck As String = "SELECT COUNT(\*) FROM [TRANSACTION] WHERE Employee\_Code = @Employee\_Code AND [Month] = @Month AND [Year] = @Year"

Dim commandCheck As SqlCommand = New SqlCommand(queryCheck, connection)

commandCheck.Parameters.AddWithValue("@Employee\_Code", employeeCode)

commandCheck.Parameters.AddWithValue("@Month", month)

commandCheck.Parameters.AddWithValue("@Year", year)

Dim recordCount As Integer = Convert.ToInt32(commandCheck.ExecuteScalar())

If recordCount > 0 Then

' Record exists, ask for update

```
Dim dialogResult As DialogResult = MessageBox.Show("Record for this Employee Code,
Month, and Year already exists. Do you want to update it?", "Update Record",
MessageBoxButtons.YesNo, MessageBoxIcon.Question)
```

```
If dialogResult = DialogResult.Yes Then
```

```
    ' Update existing record
```

```
    Dim queryUpdate As String = "UPDATE [Transaction] SET Working_Day =
@Working_Day, Holiday = @Holiday, Early_Leave = @Early_Leave, Casual_Leave =
@Casual_Leave, Leave_Without_Pay = @Leave_Without_Pay, TDS = @TDS, Advance =
@Advance, Loan_From_Bank = @Loan_From_Bank, Loan_From_Company =
@Loan_From_Company, Total_Salary = @Total_Salary WHERE Employee_Code =
@Employee_Code AND [Month] = @Month AND [Year] = @Year"
```

```
    Dim commandUpdate As SqlCommand = New SqlCommand(queryUpdate, connection)
```

```
    commandUpdate.Parameters.AddWithValue("@Working_Day", workingDay)
```

```
    commandUpdate.Parameters.AddWithValue("@Holiday", holiday)
```

```
    commandUpdate.Parameters.AddWithValue("@Early_Leave", earlyLeave)
```

```
    commandUpdate.Parameters.AddWithValue("@Casual_Leave", casualLeave)
```

```
    commandUpdate.Parameters.AddWithValue("@Leave_Without_Pay", leaveWithoutPay)
```

```
    commandUpdate.Parameters.AddWithValue("@TDS", tds)
```

```
    commandUpdate.Parameters.AddWithValue("@Advance", advance)
```

```
    commandUpdate.Parameters.AddWithValue("@Loan_From_Bank", loanFromBank)
```

```
    commandUpdate.Parameters.AddWithValue("@Loan_From_Company",
loanFromCompany)
```

```
    commandUpdate.Parameters.AddWithValue("@Total_Salary", totalSalary)
```

```
    commandUpdate.Parameters.AddWithValue("@Employee_Code", employeeCode)
```

```
    commandUpdate.Parameters.AddWithValue("@Month", month)
```

```
    commandUpdate.Parameters.AddWithValue("@Year", year)
```

```
    commandUpdate.ExecuteNonQuery()
```

```
    MessageBox.Show("Record updated successfully.", "Update Success",
MessageBoxButtons.OK, MessageBoxIcon.Information)
```

```
End If
```

```
Else
```

```
    ' Insert new record
```

```
    Dim queryInsert As String = "INSERT INTO [Transaction] (Employee_Code, [Month],
[Year], Working_Day, Holiday, Early_Leave, Casual_Leave, Leave_Without_Pay, TDS, Advance,
Loan_From_Bank, Loan_From_Company, Total_Salary) VALUES (@Employee_Code, @Month,
@Year, @Working_Day, @Holiday, @Early_Leave, @Casual_Leave, @Leave_Without_Pay,
@TDS, @Advance, @Loan_From_Bank, @Loan_From_Company, @Total_Salary)"
```

```

Dim commandInsert As SqlCommand = New SqlCommand(queryInsert, connection)
commandInsert.Parameters.AddWithValue("@Employee_Code", employeeCode)
commandInsert.Parameters.AddWithValue("@Month", month)
commandInsert.Parameters.AddWithValue("@Year", year)
commandInsert.Parameters.AddWithValue("@Working_Day", workingDay)
commandInsert.Parameters.AddWithValue("@Holiday", holiday)
commandInsert.Parameters.AddWithValue("@Early_Leave", earlyLeave)
commandInsert.Parameters.AddWithValue("@Casual_Leave", casualLeave)
commandInsert.Parameters.AddWithValue("@Leave_Without_Pay", leaveWithoutPay)
commandInsert.Parameters.AddWithValue("@TDS", tds)
commandInsert.Parameters.AddWithValue("@Advance", advance)
commandInsert.Parameters.AddWithValue("@Loan_From_Bank", loanFromBank)
commandInsert.Parameters.AddWithValue("@Loan_From_Company",
loanFromCompany)
commandInsert.Parameters.AddWithValue("@Total_Salary", totalSalary)

commandInsert.ExecuteNonQuery()

    MessageBox.Show("Record added successfully.", "Insert Success",
    MessageBoxButtons.OK, MessageBoxIcon.Information)
End If

Finally
    ' Close the connection
    connection.Close()
End Try
End Sub

End Class

```

## 12-REPORT:-

Imports System.Data.SqlClient

Public Class REPORT

' Replace "connectionstring" with your actual connection string

Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

Private Sub REPORT\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

LoadCompanyDetails()

ComboBox1.Items.AddRange(New String() {"January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"})

' Set the default selected item to the current month

Dim currentMonth As Integer = DateTime.Now.Month

ComboBox1.SelectedIndex = currentMonth - 1

' Set the default value of the TextBox to the current year

TextBox1.Text = DateTime.Now.Year.ToString()

' Initially hide DataGridViews and Labels

DataGridView1.Visible = False

DataGridView2.Visible = False

DataGridView3.Visible = False

DataGridView4.Visible = False

DataGridView5.Visible = False

Label3.Visible = False

Label4.Visible = False

Label5.Visible = False

Label6.Visible = False

Label7.Visible = False

' Initialize empty DataTables for each department

DataGridView1.DataSource = dtHR

DataGridView2.DataSource = dtProduction

DataGridView3.DataSource = dtIT

DataGridView4.DataSource = dtFinance

DataGridView5.DataSource = dtSales

End Sub

Dim dtHR As New DataTable("HR")

Dim dtProduction As New DataTable("Production")

Dim dtIT As New DataTable("IT")

Dim dtFinance As New DataTable("Finance")

Dim dtSales As New DataTable("Sales")

Sub LoadData()

Dim selectedMonth As String = ComboBox1.SelectedItem.ToString()

Dim selectedYear As Integer = Integer.Parse(TextBox1.Text)

' Make DataGridViews and Labels visible

DataGridView1.Visible = True

DataGridView2.Visible = True

DataGridView3.Visible = True

```

DataGridView4.Visible = True
DataGridView5.Visible = True
Label3.Visible = True
Label4.Visible = True
Label5.Visible = True
Label6.Visible = True
Label7.Visible = True

Dim connection As SqlConnection = New SqlConnection(connectionString)

' Build the base SQL statement
Dim sql = "SELECT e.EMPLOYEE_CODE, e.EMPLOYEE_NAME, e.Department, " &
"s.[DESIGNATION], s.[BASIC_SALARY], s.[DA], " &
"s.[HRA], s.[MEDICAL], s.[PERFORMANCE], s.[CONVEYANCE], " &
"t.MONTH, t.YEAR, t.WORKING_DAY, t.HOLIDAY, t.EARLY_LEAVE,
t.CASUAL_LEAVE, " &
"t.LEAVE_WITHOUT_PAY, t.TDS, t.ADVANCE, t.LOAN_FROM_BANK,
t.LOAN_FROM_COMPANY, " &
"t.TOTAL_SALARY " &
"FROM EMPLOYEE1 e " &
"INNER JOIN SALARY s ON e.Employee_CODE = s.Employee_CODE " &
"INNER JOIN [TRANSACTION] t ON e.Employee_CODE = t.Employee_CODE " &
"WHERE t.MONTH = @Month AND t.YEAR = @Year " &
"AND e.Department = @Department " &
"ORDER BY e.EMPLOYEE_NAME"

' Create separate DataAdapters for each department
Dim adapterHR As New SqlDataAdapter(sql, connection)
Dim adapterProduction As New SqlDataAdapter(sql, connection)
Dim adapterIT As New SqlDataAdapter(sql, connection)
Dim adapterFinance As New SqlDataAdapter(sql, connection)
Dim adapterSales As New SqlDataAdapter(sql, connection)

' Add parameters for month and year to each adapter
adapterHR.SelectCommand.Parameters.AddWithValue("@Month", selectedMonth)
adapterHR.SelectCommand.Parameters.AddWithValue("@Year", selectedYear)
adapterHR.SelectCommand.Parameters.AddWithValue("@Department", "HUMAN
RESOURCE")

adapterProduction.SelectCommand.Parameters.AddWithValue("@Month", selectedMonth)
adapterProduction.SelectCommand.Parameters.AddWithValue("@Year", selectedYear)
adapterProduction.SelectCommand.Parameters.AddWithValue("@Department",
"PRODUCTION")

adapterIT.SelectCommand.Parameters.AddWithValue("@Month", selectedMonth)
adapterIT.SelectCommand.Parameters.AddWithValue("@Year", selectedYear)
adapterIT.SelectCommand.Parameters.AddWithValue("@Department", "INFORMATION AND
TECHNOLOGY")

adapterFinance.SelectCommand.Parameters.AddWithValue("@Month", selectedMonth)
adapterFinance.SelectCommand.Parameters.AddWithValue("@Year", selectedYear)
adapterFinance.SelectCommand.Parameters.AddWithValue("@Department", "FINANCE")

adapterSales.SelectCommand.Parameters.AddWithValue("@Month", selectedMonth)

```

```

adapterSales.SelectCommand.Parameters.AddWithValue("@Year", selectedYear)
adapterSales.SelectCommand.Parameters.AddWithValue("@Department", "SALES")

' Clear previous data from DataTables
dtHR.Clear()
dtProduction.Clear()
dtIT.Clear()
dtFinance.Clear()
dtSales.Clear()

' Fill each DataTable with data from its corresponding adapter
adapterHR.Fill(dtHR)
adapterProduction.Fill(dtProduction)
adapterIT.Fill(dtIT)
adapterFinance.Fill(dtFinance)
adapterSales.Fill(dtSales)
End Sub

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    LoadData()
End Sub

Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
    Me.Close()
    HOME.Show()
End Sub

Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
    ' Get selected month
    Dim selectedMonth As String = If(ComboBox1.SelectedItem IsNot Nothing,
    ComboBox1.SelectedItem.ToString(), "")
    If String.IsNullOrEmpty(selectedMonth) Then
        MessageBox.Show("Please select a month.")
        Return ' Exit the function if no month is selected
    End If

    ' Convert year (assuming numeric)
    Dim selectedYear As Integer
    If Not Integer.TryParse(TextBox1.Text, selectedYear) Then
        MessageBox.Show("Invalid year format. Please enter a valid number.")
        Return ' Exit the function if conversion fails
    End If

    ' Pass month and year to FINAL form
    Dim finalForm As New FINAL(selectedMonth, selectedYear)
    finalForm.Show()
    Me.Close()
End Sub

Private Sub LoadCompanyDetails()
    ' SQL query to get the company name and address
    Dim query As String = "SELECT [COMPANY NAME], [ADDRESS] FROM
[dbo].[COMPANY]"

    ' Create a connection and command object
    Using connection As New SqlConnection(connectionString),

```

```

        command As New SqlCommand(query, connection)
    Try
        ' Open the connection
        connection.Open()

        ' Execute the command and get the data reader
        Using reader As SqlDataReader = command.ExecuteReader()
            ' Check if there is a row to read
            If reader.Read() Then
                ' Get the name and address from the reader
                Dim companyName As String = reader("COMPANY NAME").ToString()
                Dim companyAddress As String = reader("ADDRESS").ToString()

                ' Set the labels' text to the company details
                Label8.Text = companyName
                Label9.Text = companyAddress
            Else
                ' Handle the case where no data is returned
                MessageBox.Show("No company details found.", "Information",
                MessageBoxButtons.OK, MessageBoxIcon.Information)
            End If
        End Using

    Catch ex As Exception
        ' Handle any errors that might have occurred
        MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
        "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
    End Try
End Using
End Sub
End Class

```

### 13-SUMMARY:-

Imports System.Windows.Forms

Imports System.Data.SqlClient

Public Class FINAL

Private \_selectedMonth As String

Private \_selectedYear As Integer

Private connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

Public Sub New(selectedMonth As String, selectedYear As Integer)

InitializeComponent()

\_selectedMonth = selectedMonth

\_selectedYear = selectedYear

Label18.Text = \_selectedMonth

Label19.Text = \_selectedYear.ToString() ' Ensure conversion to string for display

End Sub

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

Me.Close()

REPORT.Show()

End Sub

Private Sub FINAL\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Label18.Visible = False

Label19.Visible = False

LoadCompanyDetails()

Dim selectedMonth As String = Label18.Text

Dim selectedYear As Integer = 0

If Not Integer.TryParse(Label19.Text, selectedYear) Then

MessageBox.Show("Invalid year format. Please enter a valid number.")

Return ' Exit the function if conversion fails

End If

Dim hrData As Tuple(Of Integer, Integer) = GetHREmployeeCount(selectedMonth, selectedYear)



```

' Check for data retrieval success (optional)
If hrData Is Nothing Then
    MessageBox.Show("Error retrieving data")
Else
    Label6.Text = hrData.Item1.ToString() ' Display HR employee count
    Label15.Text = hrData.Item2.ToString() ' Display total working days
End If

Dim PRData As Tuple(Of Integer, Integer) =
GetPRODUCTIONEmployeeCount(selectedMonth, selectedYear)

' Check for data retrieval success (optional)
If PRData Is Nothing Then
    MessageBox.Show("Error retrieving data")
Else
    Label7.Text = PRData.Item1.ToString() ' Display HR employee count
    Label14.Text = PRData.Item2.ToString() ' Display total working days
End If

Dim SLData As Tuple(Of Integer, Integer) = GetSALESEmployeeCount(selectedMonth,
selectedYear)

' Check for data retrieval success (optional)
If SLData Is Nothing Then
    MessageBox.Show("Error retrieving data")
Else
    Label8.Text = SLData.Item1.ToString() ' Display HR employee count
    Label13.Text = SLData.Item2.ToString() ' Display total working days
End If

Dim FIData As Tuple(Of Integer, Integer) = GetFINANCEEmployeeCount(selectedMonth,
selectedYear)

' Check for data retrieval success (optional)
If FIData Is Nothing Then
    MessageBox.Show("Error retrieving data")
Else

```

```

Label9.Text = FIData.Item1.ToString() ' Display HR employee count
Label12.Text = FIData.Item2.ToString() ' Display total working days
End If

Dim ITData As Tuple(Of Integer, Integer) = GetITEmployeeCount(selectedMonth,
selectedYear)

Dim sum As Integer = 0 ' Initialize sum variable

' Check for data retrieval success (optional)
If ITData Is Nothing Then
    MessageBox.Show("Error retrieving data")
Else
    Label10.Text = ITData.Item1.ToString() ' Display HR employee count
    Label11.Text = ITData.Item2.ToString() ' Display total working days

    ' Convert label texts to integers and sum them up
    sum = Convert.ToInt32(Label15.Text) + Convert.ToInt32(Label14.Text) +
Convert.ToInt32(Label13.Text) + Convert.ToInt32(Label12.Text) + Convert.ToInt32(Label11.Text)
End If

Label16.Text = sum.ToString()

End Sub

Public Function GetHREmployeeCount(ByVal selectedMonth As String, ByVal selectedYear As
Integer) As Tuple(Of Integer, Integer)

    Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial
Catalog=PAYROLL;Integrated Security=True;Encrypt=False" ' Update with your actual connection
string

    ' SQL query to count HR employees and total working days, filtered by month and year
    Dim sql As String = "Select COUNT(e.Employee_CODE) As EmployeeCount, " &
"SUM(T.TOTAL_SALARY) As TotalSalary " &
"FROM EMPLOYEE1 e " &
"INNER JOIN SALARY s On e.Employee_CODE = s.Employee_CODE " &
"INNER JOIN [TRANSACTION] t On e.Employee_CODE = t.Employee_CODE " &

```

```
"WHERE t.MONTH = @Month And t.YEAR = @Year And e.Department = 'HUMAN  
RESOURCE'"
```

```
' Execute the query and retrieve data
```

```
Using connection As New SqlConnection(connectionString)
```

```
Using command As New SqlCommand(sql, connection)
```

```
command.Parameters.AddWithValue("@Month", selectedMonth)
```

```
command.Parameters.AddWithValue("@Year", selectedYear)
```

```
connection.Open()
```

```
Dim reader As SqlDataReader = command.ExecuteReader()
```

```
If reader.Read() Then
```

```
Dim employeeCount As Integer = If(IsDBNull(reader("EmployeeCount")), 0,  
Convert.ToInt32(reader("EmployeeCount")))
```

```
Dim TotalSalary As Integer = If(IsDBNull(reader("TotalSalary")), 0,  
Convert.ToInt32(reader("TotalSalary")))
```

```
Return New Tuple(Of Integer, Integer)(employeeCount, TotalSalary)
```

```
Else
```

```
' Handle case where no data is found (optional)
```

```
Return New Tuple(Of Integer, Integer)(0, 0) ' Return 0 for both counts
```

```
End If
```

```
reader.Close()
```

```
End Using
```

```
End Using
```

```
' Should not reach here if data is retrieved successfully
```

```
Return Nothing ' Indicate an error (optional)
```

```
End Function
```

```
Public Function GetPRODUCTIONEmployeeCount(ByVal selectedMonth As String, ByVal  
selectedYear As Integer) As Tuple(Of Integer, Integer)
```

```
Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial  
Catalog=PAYROLL;Integrated Security=True;Encrypt=False" ' Update with your actual connection  
string
```

```
' SQL query to count HR employees and total working days, filtered by month and year
```

```

Dim sql As String = "SELECT COUNT(e.Employee_CODE) AS EmployeeCount, " &
"SUM(T.TOTAL_SALARY) AS TotalSalary " &
"FROM EMPLOYEE1 e " &
"INNER JOIN SALARY s ON e.Employee_CODE = s.Employee_CODE " &
"INNER JOIN [TRANSACTION] t ON e.Employee_CODE = t.Employee_CODE " &
"WHERE t.MONTH = @Month AND t.YEAR = @Year AND e.Department = 'PRODUCTION'"

```

```

' Execute the query and retrieve data

```

```

Using connection As New SqlConnection(connectionString)

```

```

Using command As New SqlCommand(sql, connection)

```

```

    command.Parameters.AddWithValue("@Month", selectedMonth)

```

```

    command.Parameters.AddWithValue("@Year", selectedYear)

```

```

    connection.Open()

```

```

    Dim reader As SqlDataReader = command.ExecuteReader()

```

```

    If reader.Read() Then

```

```

        Dim employeeCount As Integer = If(IsDBNull(reader("EmployeeCount")), 0,
Convert.ToInt32(reader("EmployeeCount")))

```

```

        Dim TotalSalary As Integer = If(IsDBNull(reader("TotalSalary")), 0,
Convert.ToInt32(reader("TotalSalary")))

```

```

        Return New Tuple(Of Integer, Integer)(employeeCount, TotalSalary)

```

```

    Else

```

```

        ' Handle case where no data is found (optional)

```

```

        Return New Tuple(Of Integer, Integer)(0, 0) ' Return 0 for both counts

```

```

    End If

```

```

    reader.Close()

```

```

End Using

```

```

End Using

```

```

' Should not reach here if data is retrieved successfully

```

```

Return Nothing ' Indicate an error (optional)

```

```

End Function

```

```
Public Function GetSALESEmployeeCount(ByVal selectedMonth As String, ByVal selectedYear
As Integer) As Tuple(Of Integer, Integer)
```

```
    Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial
Catalog=PAYROLL;Integrated Security=True;Encrypt=False" ' Update with your actual connection
string
```

```
    ' SQL query to count HR employees and total working days, filtered by month and year
```

```
    Dim sql As String = "SELECT COUNT(e.Employee_CODE) AS EmployeeCount, " &
"SUM(T.TOTAL_SALARY) AS TotalSalary " &
"FROM EMPLOYEE1 e " &
"INNER JOIN SALARY s ON e.Employee_CODE = s.Employee_CODE " &
"INNER JOIN [TRANSACTION] t ON e.Employee_CODE = t.Employee_CODE " &
"WHERE t.MONTH = @Month AND t.YEAR = @Year AND e.Department = 'SALES'"
```

```
    ' Execute the query and retrieve data
```

```
    Using connection As New SqlConnection(connectionString)
```

```
        Using command As New SqlCommand(sql, connection)
```

```
            command.Parameters.AddWithValue("@Month", selectedMonth)
```

```
            command.Parameters.AddWithValue("@Year", selectedYear)
```

```
            connection.Open()
```

```
            Dim reader As SqlDataReader = command.ExecuteReader()
```

```
            If reader.Read() Then
```

```
                Dim employeeCount As Integer = If(IsDBNull(reader("EmployeeCount")), 0,
Convert.ToInt32(reader("EmployeeCount")))
```

```
                Dim TotalSalary As Integer = If(IsDBNull(reader("TotalSalary")), 0,
Convert.ToInt32(reader("TotalSalary")))
```

```
                Return New Tuple(Of Integer, Integer)(employeeCount, TotalSalary)
```

```
            Else
```

```
                ' Handle case where no data is found (optional)
```

```
                Return New Tuple(Of Integer, Integer)(0, 0) ' Return 0 for both counts
```

```
            End If
```

```
        reader.Close()
```

```
    End Using
```

Return Nothing

End Using ' Indicate an error (optional)

End Function

```
Public Function GetFINANCEEmployeeCount(ByVal selectedMonth As String, ByVal  
selectedYear As Integer) As Tuple(Of Integer, Integer)
```

```
Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial  
Catalog=PAYROLL;Integrated Security=True;Encrypt=False" ' Update with your actual connection  
string
```

```
' SQL query to count HR employees and total working days, filtered by month and year
```

```
Dim sql As String = "SELECT COUNT(e.Employee_CODE) AS EmployeeCount, " &  
"SUM(T.TOTAL_SALARY) AS TotalSalary " &  
"FROM EMPLOYEE1 e " &  
"INNER JOIN SALARY s ON e.Employee_CODE = s.Employee_CODE " &  
"INNER JOIN [TRANSACTION] t ON e.Employee_CODE = t.Employee_CODE " &  
"WHERE t.MONTH = @Month AND t.YEAR = @Year AND e.Department = 'FINANCE'"
```

```
' Execute the query and retrieve data
```

```
Using connection As New SqlConnection(connectionString)
```

```
Using command As New SqlCommand(sql, connection)
```

```
command.Parameters.AddWithValue("@Month", selectedMonth)
```

```
command.Parameters.AddWithValue("@Year", selectedYear)
```

```
connection.Open()
```

```
Dim reader As SqlDataReader = command.ExecuteReader()
```

```
If reader.Read() Then
```

```
Dim employeeCount As Integer = If(IsDBNull(reader("EmployeeCount")), 0,  
Convert.ToInt32(reader("EmployeeCount")))
```

```
Dim TotalSalary As Integer = If(IsDBNull(reader("TotalSalary")), 0,  
Convert.ToInt32(reader("TotalSalary")))
```

```
Return New Tuple(Of Integer, Integer)(employeeCount, TotalSalary)
```

```
Else
```

```
' Handle case where no data is found (optional)
```

```
Return New Tuple(Of Integer, Integer)(0, 0) ' Return 0 for both counts
```

```

        End If

        reader.Close()

    End Using
End Using

' Should not reach here if data is retrieved successfully

' Should not reach here if data is retrieved successfully
Return Nothing ' Indicate an error (optional)
End Function

Public Function GetITEmployeeCount(ByVal selectedMonth As String, ByVal selectedYear As Integer) As Tuple(Of Integer, Integer)

    Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False" ' Update with your actual connection string

    ' SQL query to count HR employees and total working days, filtered by month and year
    Dim sql As String = "SELECT COUNT(e.Employee_CODE) AS EmployeeCount, " &
        "SUM(T.TOTAL_SALARY) AS TotalSalary " &
        "FROM EMPLOYEE1 e " &
        "INNER JOIN SALARY s ON e.Employee_CODE = s.Employee_CODE " &
        "INNER JOIN [TRANSACTION] t ON e.Employee_CODE = t.Employee_CODE " &
        "WHERE t.MONTH = @Month AND t.YEAR = @Year AND e.Department = 'INFORMATION AND TECHNOLOGY'"

    ' Execute the query and retrieve data
    Using connection As New SqlConnection(connectionString)
        Using command As New SqlCommand(sql, connection)
            command.Parameters.AddWithValue("@Month", selectedMonth)
            command.Parameters.AddWithValue("@Year", selectedYear)
            connection.Open()
            Dim reader As SqlDataReader = command.ExecuteReader()

            If reader.Read() Then

```

```

        Dim employeeCount As Integer = If(IsDBNull(reader("EmployeeCount")), 0,
Convert.ToInt32(reader("EmployeeCount")))

        Dim TotalSalary As Integer = If(IsDBNull(reader("TotalSalary")), 0,
Convert.ToInt32(reader("TotalSalary")))

        Return New Tuple(Of Integer, Integer)(employeeCount, TotalSalary)
    Else
        ' Handle case where no data is found (optional)

        Return New Tuple(Of Integer, Integer)(0, 0) ' Return 0 for both counts
    End If

    reader.Close()

End Using
End Using

' Should not reach here if data is retrieved successfully
Return Nothing ' Indicate an error (optional)
End Function

Private Sub LoadCompanyDetails()
    ' SQL query to get the company name and address

    Dim query As String = "SELECT [COMPANY NAME], [ADDRESS] FROM
[dbo].[COMPANY]"

    ' Create a connection and command object
    Using connection As New SqlConnection(connectionString),
        command As New SqlCommand(query, connection)
    Try
        ' Open the connection
        connection.Open()

        ' Execute the command and get the data reader
        Using reader As SqlDataReader = command.ExecuteReader()
            ' Check if there is a row to read
            If reader.Read() Then
                ' Get the name and address from the reader
                Dim companyName As String = reader("COMPANY NAME").ToString()

```



```

        Dim companyAddress As String = reader("ADDRESS").ToString()

        ' Set the labels' text to the company details
        Label23.Text = companyName
        Label24.Text = companyAddress
    Else
        ' Handle the case where no data is returned
        MessageBox.Show("No company details found.", "Information",
        MessageBoxButtons.OK, MessageBoxIcon.Information)
    End If
End Using

Catch ex As Exception
    ' Handle any errors that might have occurred
    MessageBox.Show("An error occurred while fetching company details: " & ex.Message,
    "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
End Try
End Using
End Sub

End Class

```

## 14-LEARN:-

Imports System.Data.SqlClient

Public Class LEARN

Dim connectionString As String = "Data Source=DESKTOP-DL4DPHJ\SQLEXPRESS;Initial Catalog=PAYROLL;Integrated Security=True;Encrypt=False"

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

Me.Close()

HOME.Show()

End Sub

Private Sub LEARN\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

LoadCompanyDetails()

End Sub

Private Sub LoadCompanyDetails()

' SQL query to get the company name and address

Dim query As String = "SELECT [COMPANY NAME], [PHONE] FROM [dbo].[COMPANY]"

' Create a connection and command object

Using connection As New SqlConnection(connectionString),  
command As New SqlCommand(query, connection)

Try

' Open the connection

connection.Open()

' Execute the command and get the data reader

Using reader As SqlDataReader = command.ExecuteReader()

' Check if there is a row to read

If reader.Read() Then

' Get the name and address from the reader

Dim companyName As String = reader("COMPANY NAME").ToString()

Dim companyPHONE As String = reader("PHONE").ToString()

' Set the labels' text to the company details

Label18.Text = companyName

Label17.Text = companyPHONE

Else

' Handle the case where no data is returned

MessageBox.Show("No company details found.", "Information",

MessageBoxButtons.OK, MessageBoxIcon.Information)

End If

End Using

Catch ex As Exception

' Handle any errors that might have occurred

MessageBox.Show("An error occurred while fetching company details: " & ex.Message,  
"Error", MessageBoxButtons.OK, MessageBoxIcon.Error)

End Try

End Using

End Sub

End Class

## CONCLUSION

Reflecting on my internship at Motilal Dulichand, developing the payroll management system was a pivotal learning experience in software development and database integration. Although it was a training project, it provided me with essential skills in creating intuitive interfaces, handling data efficiently, and collaborating effectively within a corporate environment.

The system aimed to automate the management of employee details, streamline salary calculations, and generate insightful reports for HR administrators. Using Visual Basic for frontend development, I focused on designing a user-friendly interface that facilitated seamless interaction. On the backend, SQL ensured secure and efficient data storage and retrieval, crucial for maintaining accurate employee records and salary information.

Throughout the project, I worked closely with HR professionals to align the system with industry standards and organizational needs. This collaboration not only enhanced the system's functionality but also emphasized the importance of user feedback in refining software solutions. Simulating real-world payroll scenarios allowed me to tackle challenges in software lifecycle management, reinforcing my understanding of project execution and problem-solving in IT.

In conclusion, while the payroll management system served primarily as a learning tool, it laid a solid foundation for my career in software development. It deepened my technical skills, broadened my perspective on technology's role in business optimization, and fueled my enthusiasm to contribute meaningfully to future IT projects.