# **Employee Tracking System Project**

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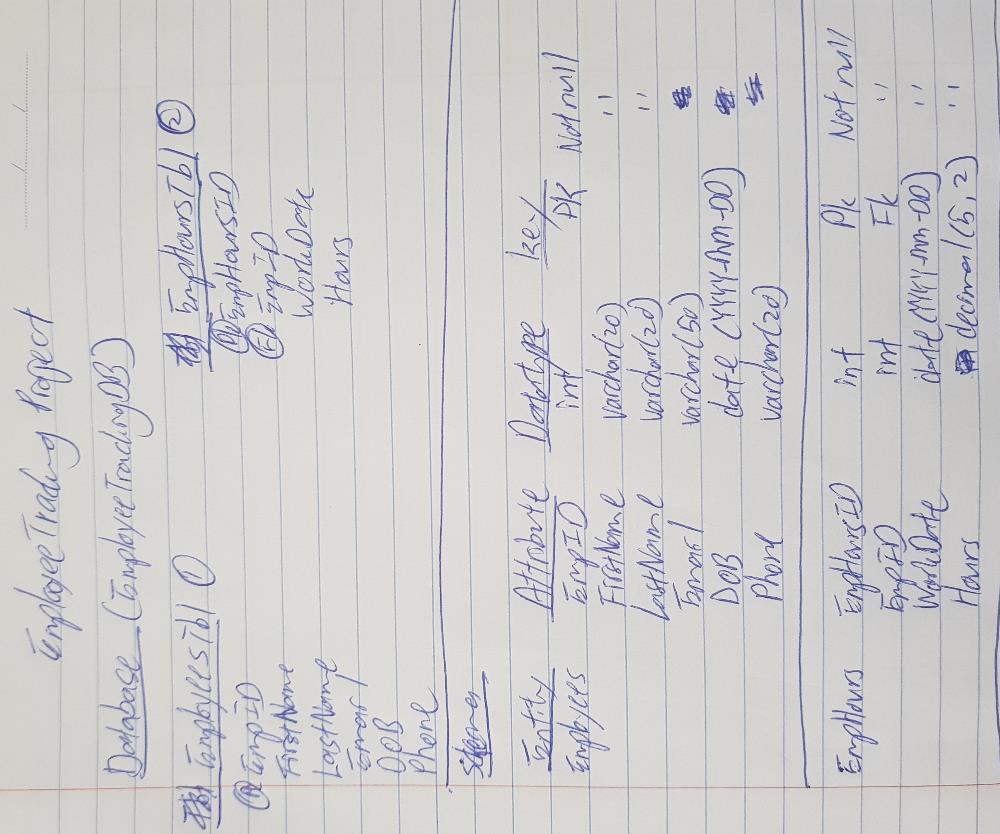
[Update employee by ID or Email 26](#_Toc530383273)

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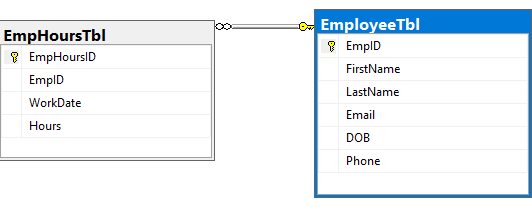
[Delete employee 30](#_Toc530383275)

## **Database Design and Schema**

Picture Here



## **Data base diagram**



## **Database Sample data (5 records)**

### EmployeesTbl

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EmpID | FirstName | Lastname | Email | DOB | Phone |
| 1 | Sample1 | Last1 | [123@gmail.com](mailto:123@gmail.com) | 01/01/10 | 123456 |
| 2 | Sample2 | Last2 | [456@mail.com](mailto:456@mail.com) | 02/02/10 | 234567 |
| 3 | Sample3 | Last3 | [789@gmail.com](mailto:789@gmail.com) | 03/03/10 | 2134565 |
| 4 | Sample4 | Last4 | [abc@gmail.com](mailto:abc@gmail.com) | 04/04/10 | 234566 |
| 5 | Sample5 | Last5 | efg@gmail.com | 05/05/10 | 1234555 |

### EmpHoursTbl

|  |  |  |  |
| --- | --- | --- | --- |
| EmpHoursID | EmpID | WorkDate | WorkHours |
| 1 | 1 | 16/10/2018 | 8 |
| 2 | 2 | 16/10/2018 | 8 |
| 3 | 3 | 16/10/2018 | 8 |
| 4 | 4 | 16/10/2018 | 8 |
| 5 | 5 | 16/10/2018 | 8 |

## **Store Procedures**

1. EmpHoursTbl
2. EmployeeTbl

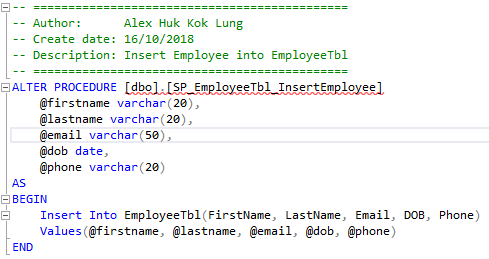
Command

-- Author: Alex Huk Kok Lung

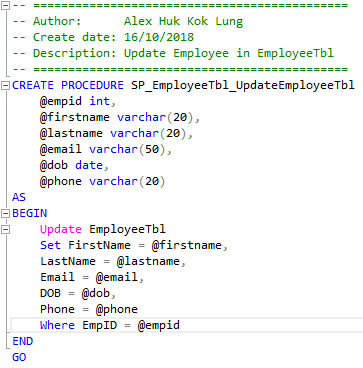
-- Create date: 16/10/2018

-- Description:

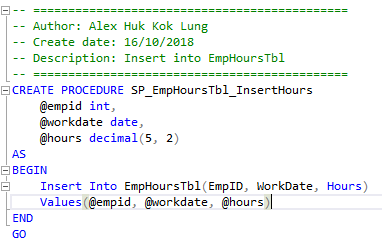
1. Insert Employee



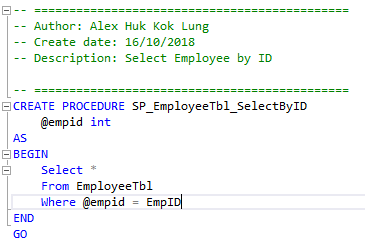
1. Update Employee



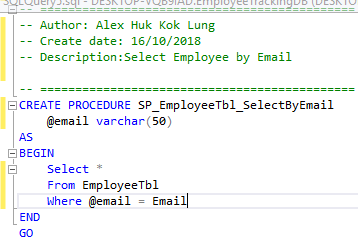
1. Insert hour



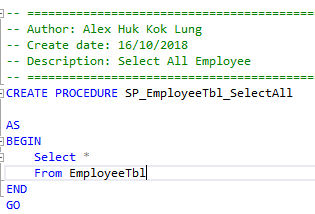
1. Select Employee By ID



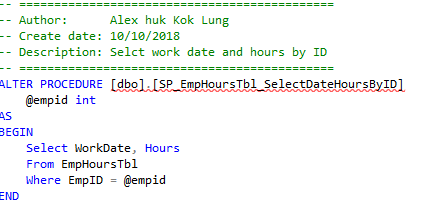
1. Select Employee by Email



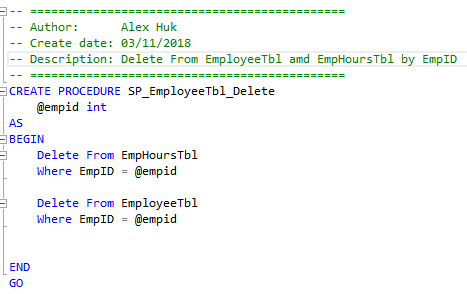
1. Select all Employee



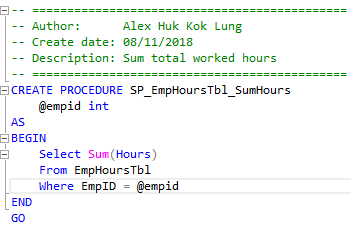
1. Select Work date and hours by EmpID



1. Delete from EmployeeTbl and EmpHoursTbl by EmpID



1. Sum Total Worked hours from EmpHoursTbl



## **OOAD**

### Presentation Tier

Show Employee Report

Add Date and Hours

Add Employee

Home

Contact

Report

Manage

Add

MainForm

Update and Delete by ID or Email

Update and Delete By Name

### Logic Tier

Manager

EmployeeManager

Add()

ShowEmployee()

Edit()

Remove()

SearchByEmail()

SearchByID()

EnumResult

Result<T>

Result

Add()

WorkHoursManager

DisplayByID()

DisplayHours()

### Data Access

Dao

SumHours()

SelectDateHoursByID()

DeleteAll()

UpdateEmployee()

SelectByEmail()

SelectByID()

SelectAll()

EmployeweDao

Connection Helper

InsertHours()

WorkHoursDao

InsertEmployee()

CreateConnection()

### Class Flow Diagram

#### Add New Employee

Manager.Add()

"Error, please double check the detail and try again."

End

End

End

"Error occur in Manager/Add " + EX.Message

"New employee Added"

SP\_EmployeeTbl\_InsertEmployee

ConnectionHelper.CreateConnection()

Dao.InsertEmployee()

#### Add Date and Hours

End

"Work date and hour added."

SP\_EmpHoursTbl\_SelectDateHoursByID

"Error occur in WorkHoursManager/Add " + EX.Message

Dao.InsertHours()

End

Input

Display in TextBox

S

Display in List Box

SP\_EmployeeTbl\_SelectAll

End

"Error occur in Manager/FindEmployees, " + EX.Message

End

"Error, try again."

Dao.SelectAll()

manager.ShowEmployees()

#### Update Employee By Name

"New detail added."

End

End

End

End

SP\_EmployeeTbl\_UpdateEmployeeTbl

Dao. UpdateEmployee ()

"Error occur in Manager/Edit " + ex.Message

Input

Display in TextBox

S

Display in List Box

SP\_EmployeeTbl\_SelectAll

Dao.SelectAll()

"Error occur in Manager/FindEmployees, " + EX.Message

"Error, try again."

manager.ShowEmployees()

#### Delete Employee

"Are you sure want to delete this employee?"

NO

YES

End

"Delete success!"

SP\_EmployeeTbl\_Delete

"Error occur in Manager/Delete "

End

Dao.DeleteAll ()

End

"Error, try again later"

manager.Remove()

End

#### Update by ID and Email

"Error occur in Manager/Edit " + ex.Message

SP\_EmployeeTbl\_SelectByID/Email

Display Detail

Enter Detail

Dao. UpdateEmployee ()

SP\_EmployeeTbl\_UpdateEmployeeTbl

"New detail added."

End

End

End

"Error occur in Manager/SearchByID/Email"

Dao.SelectByID/Email()

End

"Error, try again."

manager.SearchByID/Email()

UpdateByID Form

#### Report

End

"Error, try again."

SP\_EmpHoursTbl\_SelectDateHoursByID

Display in Label

End

"Error occur in WorkHoursManager/DisplayByID" + EX.Message

Dao.SelectDateHoursByID()

manager.DisplayByID()

Select

S

manager.ShowEmployees()

"Error, try again."

Dao.SelectAll()

"Error occur in Manager/FindEmployees, " + EX.Message

SP\_EmployeeTbl\_SelectAll

Display in List Box

Display in Label

End

End

Employee Report Form

End

Display Total Hours

SP\_EmpHoursTbl\_SumHours

End

"Error occur in WorkHoursManager/DisplayHours "

Dao.SumHours()

"Error"

End

manager.DisplayHours()

### Design

Text:

1. Title: Microsoft Sans Serif, Bold, 10
2. Label: Microsoft Sans Serif, Regular, 10

Button:

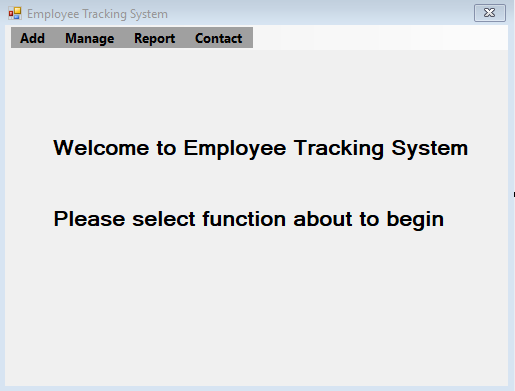
1. Text: Microsoft Sans Serif, Bold, 14
2. Size: 145, 43
3. Back Colour: ActiveCaption

From:

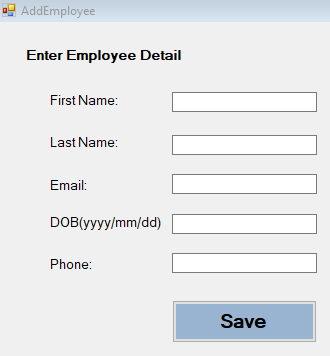
1. FormBorderStyle: FixedSingle
2. StartPosition: CenterScreen
3. MaximizeBox: False
4. MinimizeBox: False
5. Size: 519, 400

### Forms

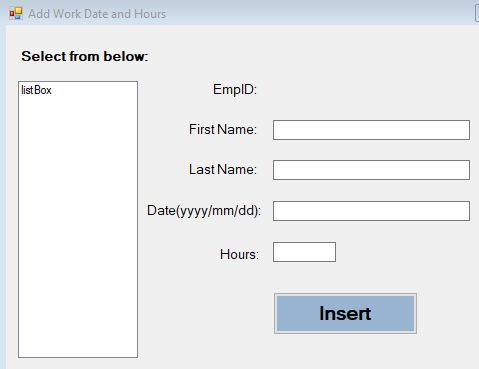
1. Main Form



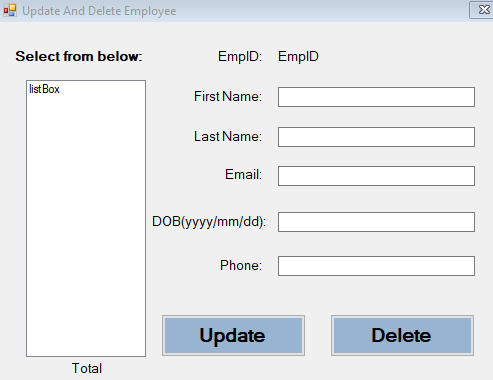
1. Add Employee Form



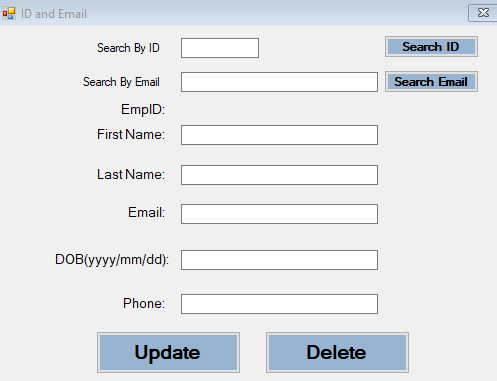
1. Add Work and Hours Form



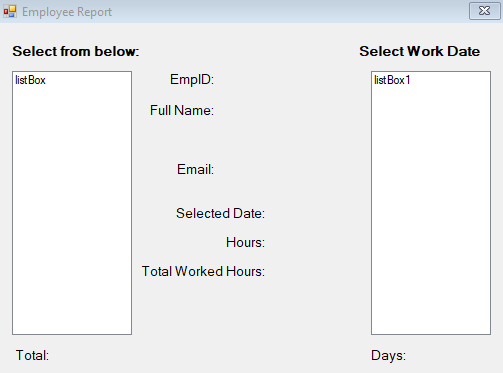
1. UpdateDelete Form



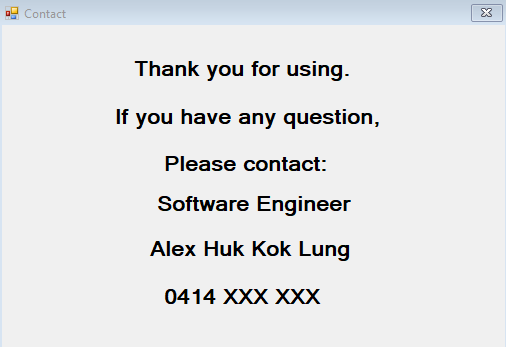
1. UpdateByID Form



1. Report Form

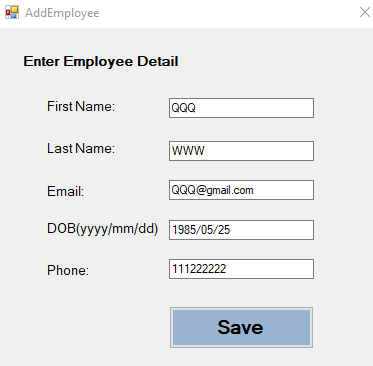


1. Contact Form

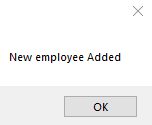


## **Demonstration**

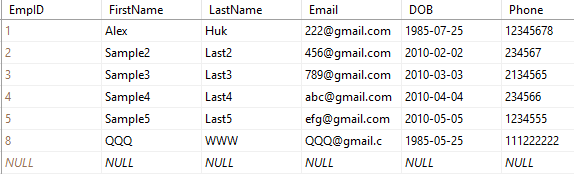
### Add new employee



Message

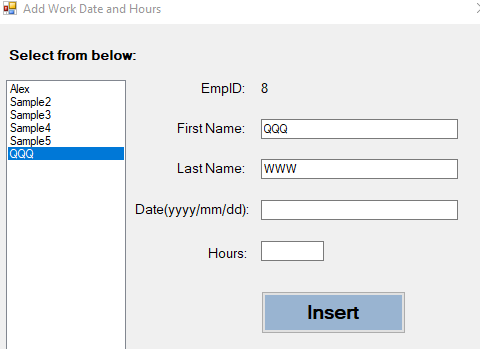


Database

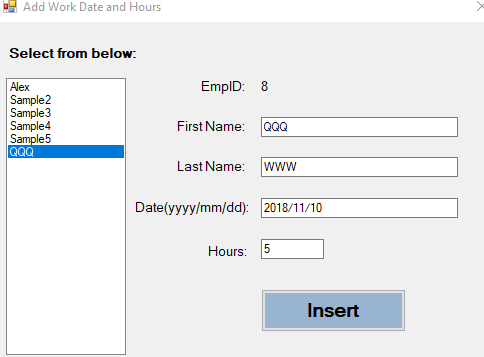


### Add employee working date and hours

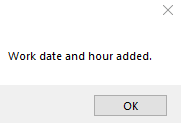
Select



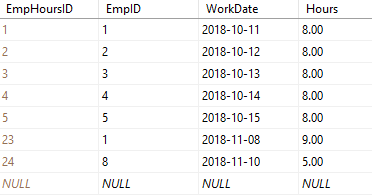
Enter detail



Message

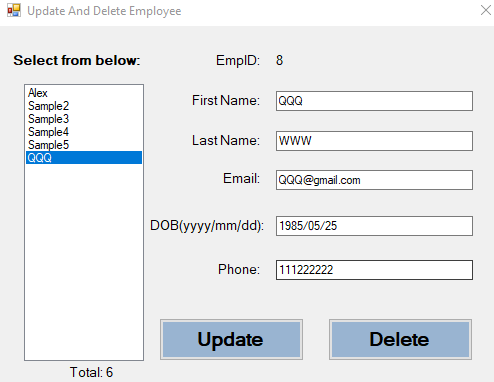


Data base

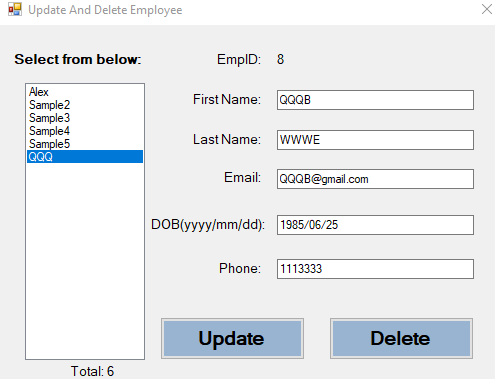


### Update employee by name

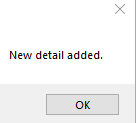
Select



Change detail



Message

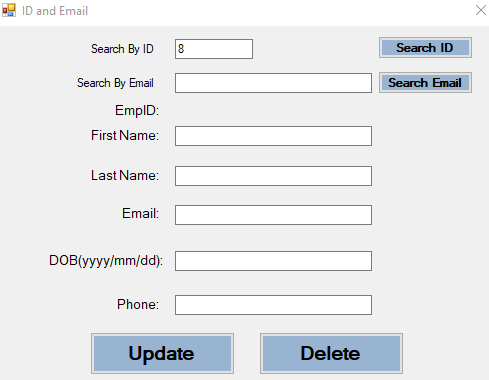


Data base

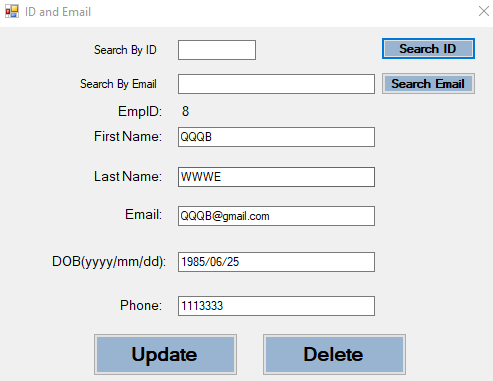


### Update employee by ID or Email

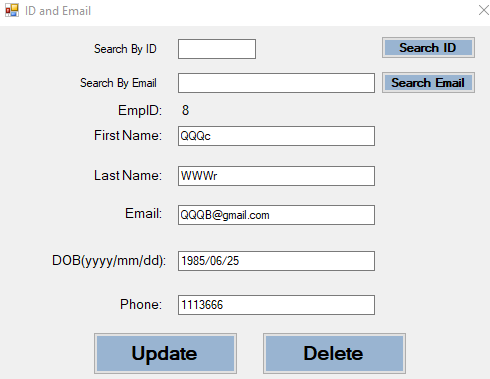
Enter employee ID



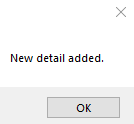
After click “Search ID”



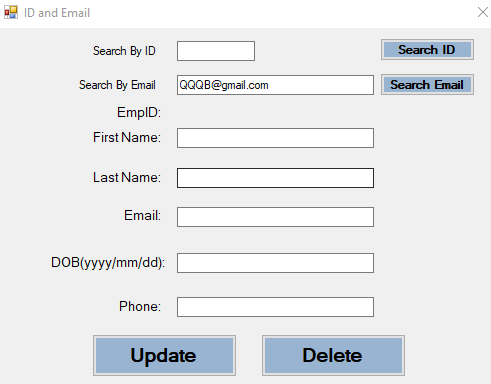
Change detail



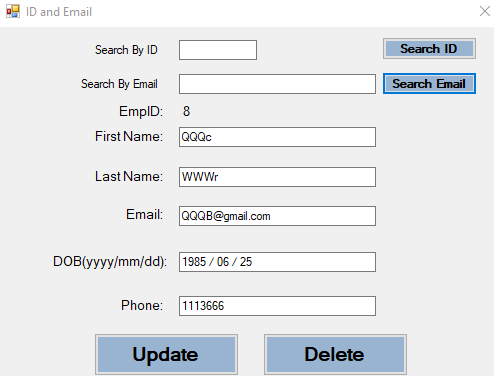
Message



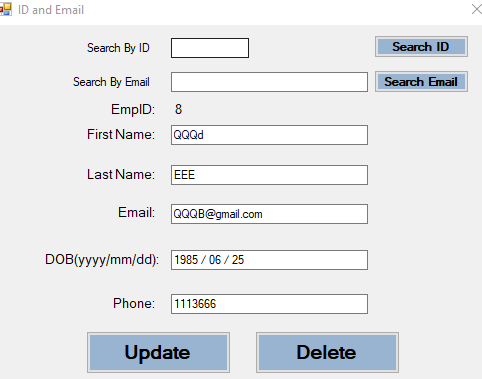
Enter email



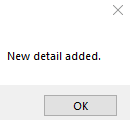
After click “Search Email”



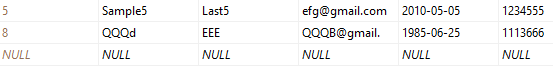
Enter detail



Message

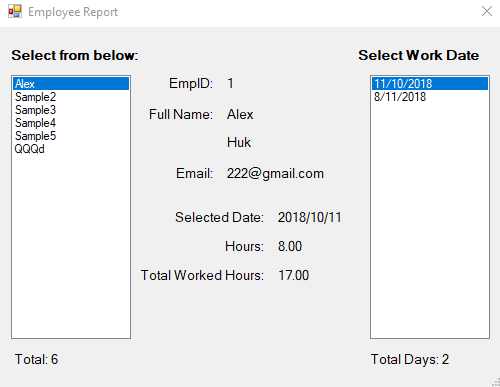


Data base

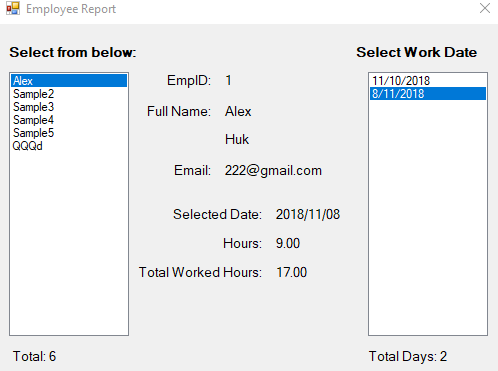


### Report

Select employee name and work date

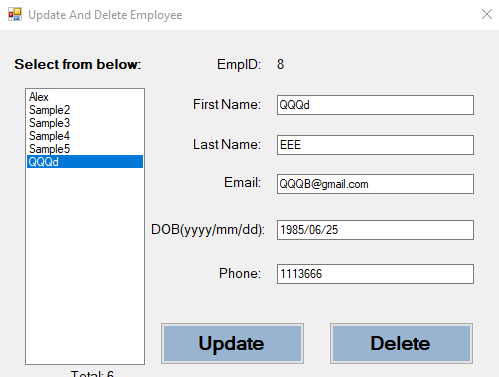


Select work date

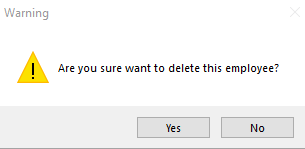


### Delete employee

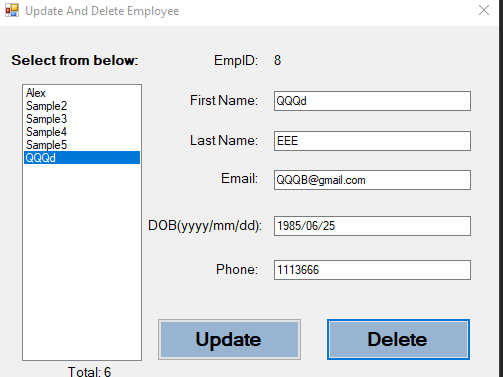
Select employee name



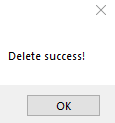
Message when click “Delete”



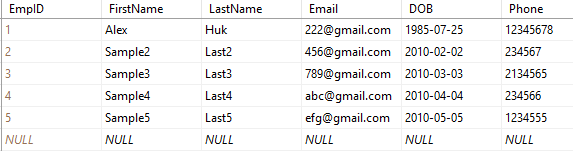
If “No”, nothing happen

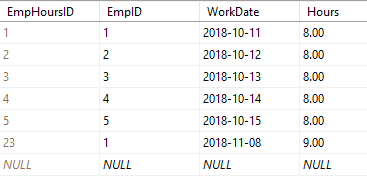


If “Yes”

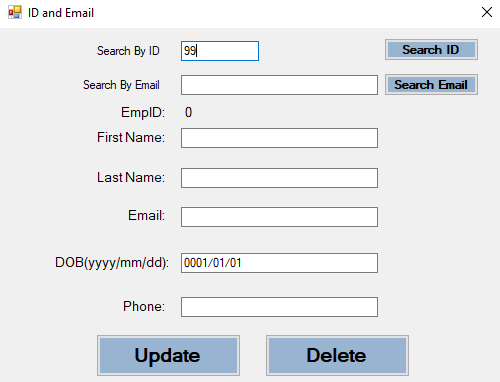


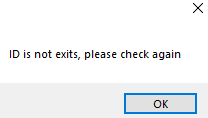
All record in both EmployeeTbl and EmpHoursTbl will be delete



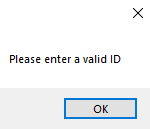


If ID not found

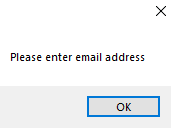




If ID is “0” or nothing



If email is nothing



If email is not valid

