**Assignment 10**

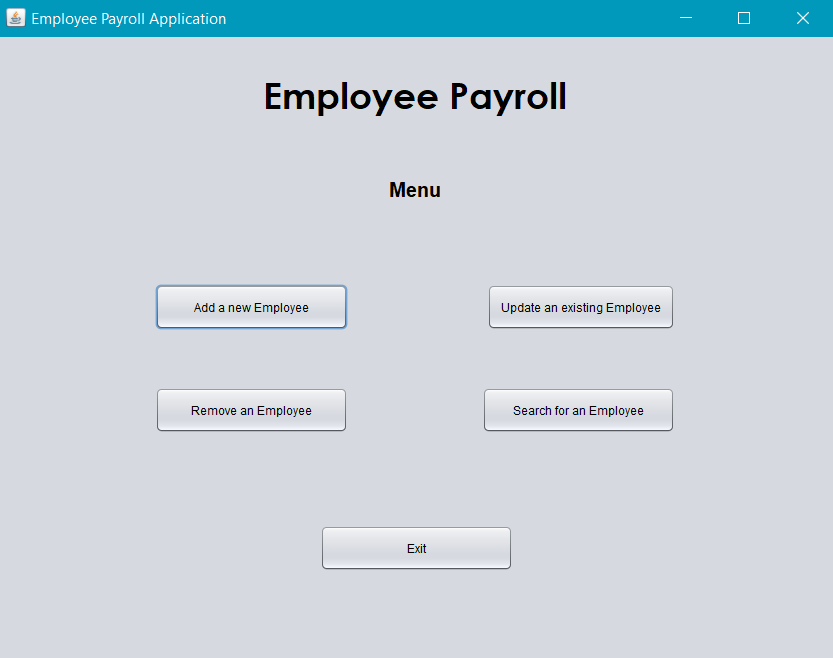
**Database Application Programming using JDBC**

**Softwares Used:**

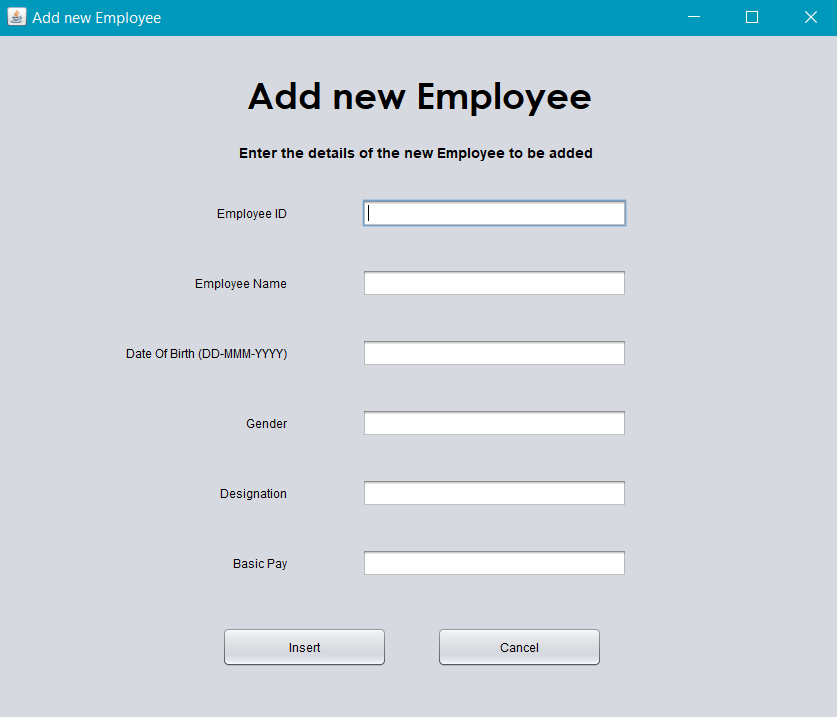
* Front End - NetBeans 8.2 with JDK 8
* Back End – Oracle 11g
* For connection – OJDBC8 (Oracle Java DataBase Connectivity API v8)

**Screenshots of the Application’s Interface:**

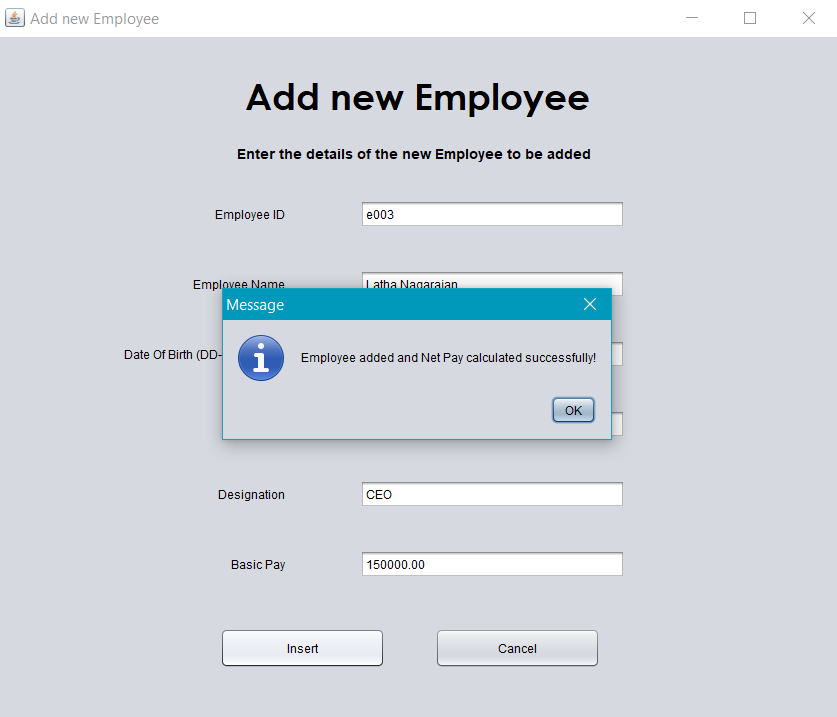
**Main Menu:**

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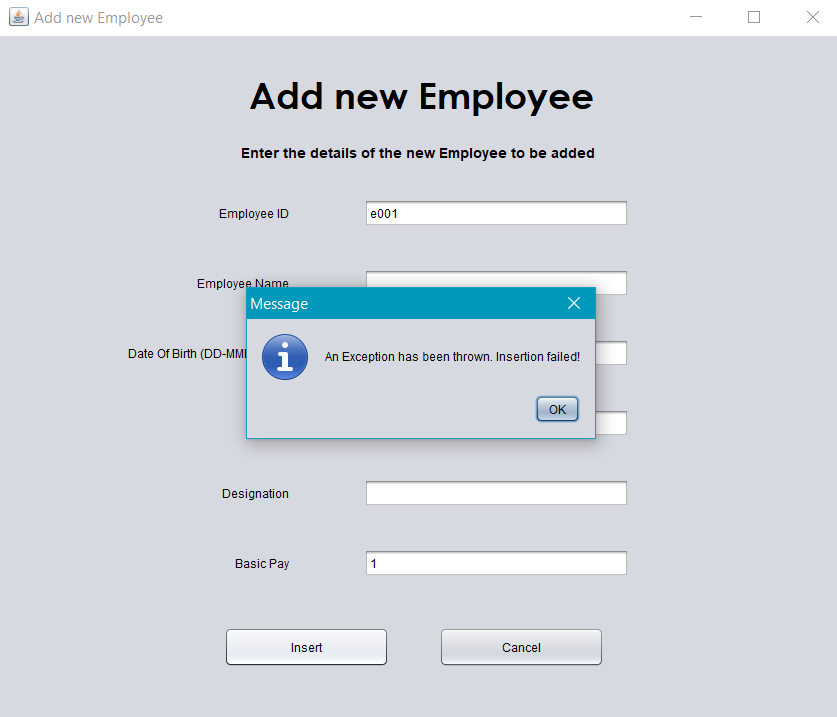
**Add Employee Window:**

****

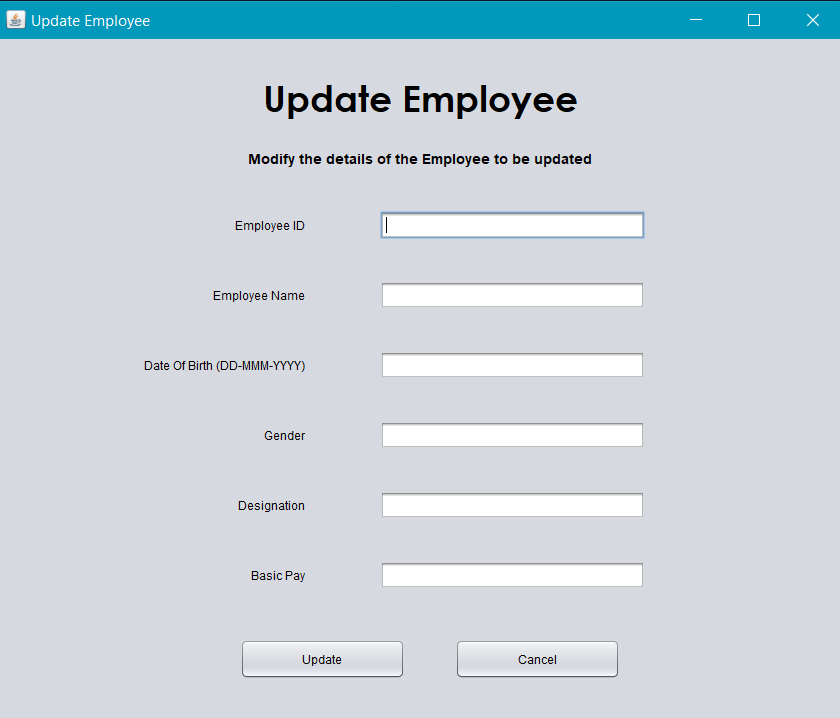
**After successful insertion:**

****

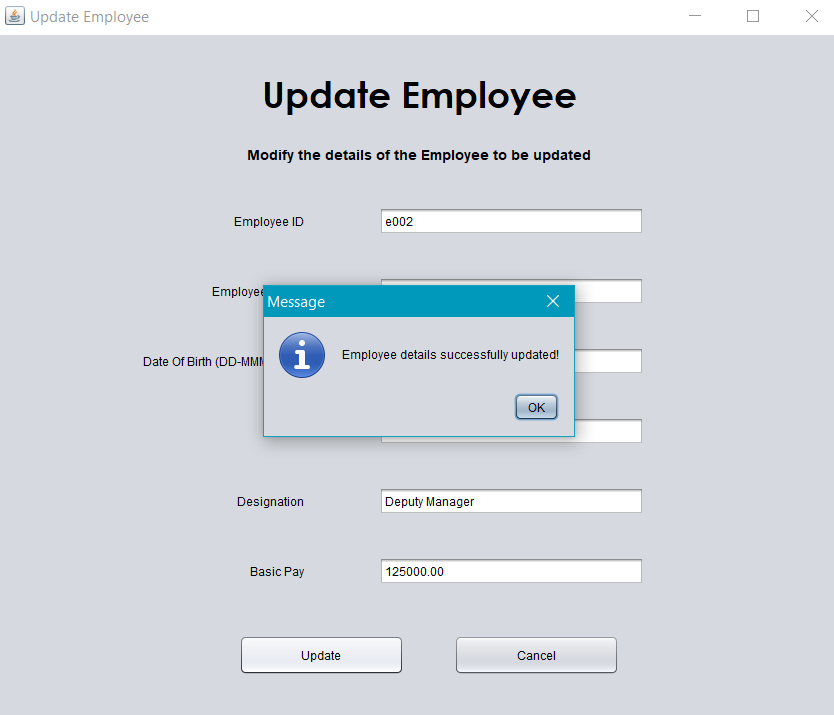
**Erroneous Insertion:**

****

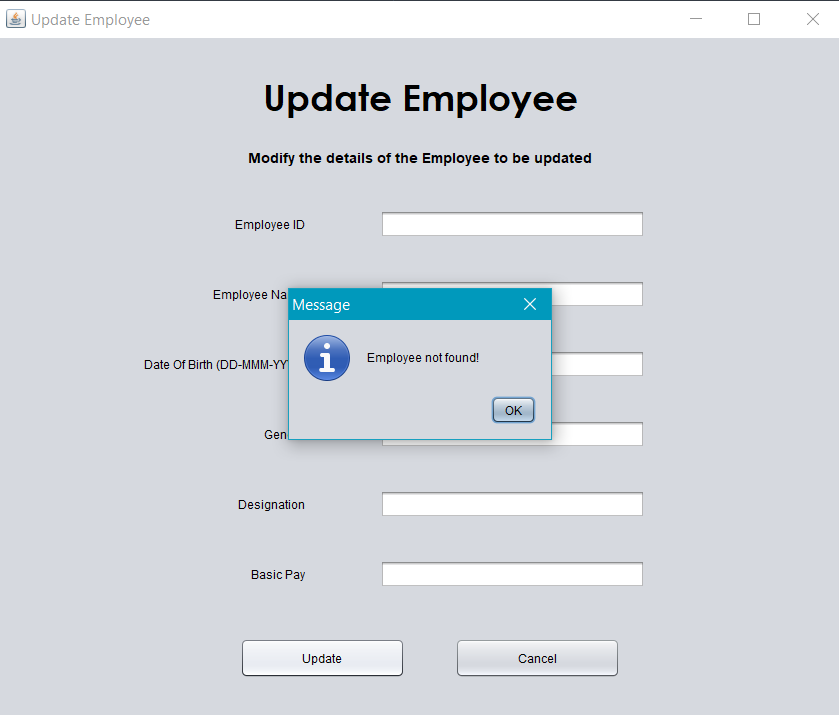
**Update Employee Window:**



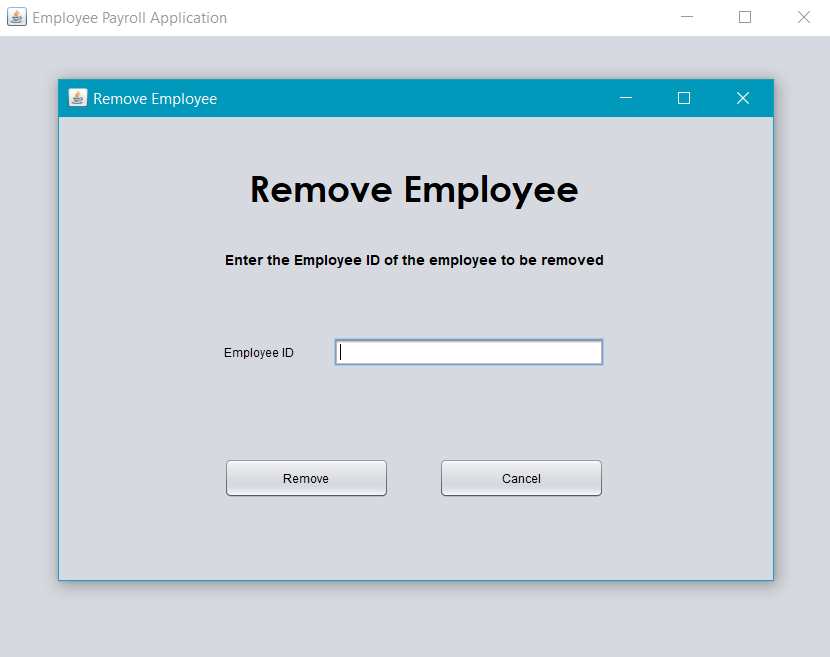
**After Successful updation:**

****

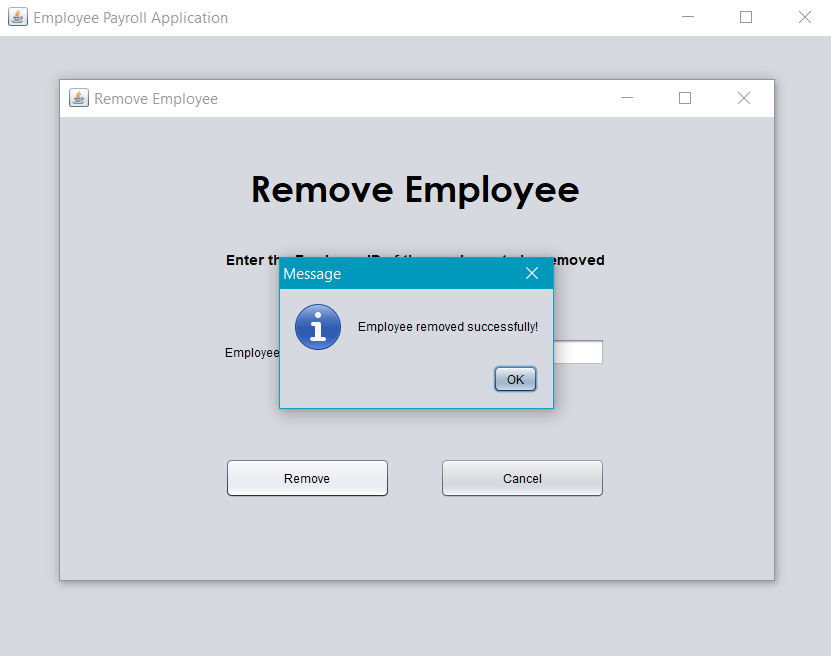
**Erroneous Updation:**

****

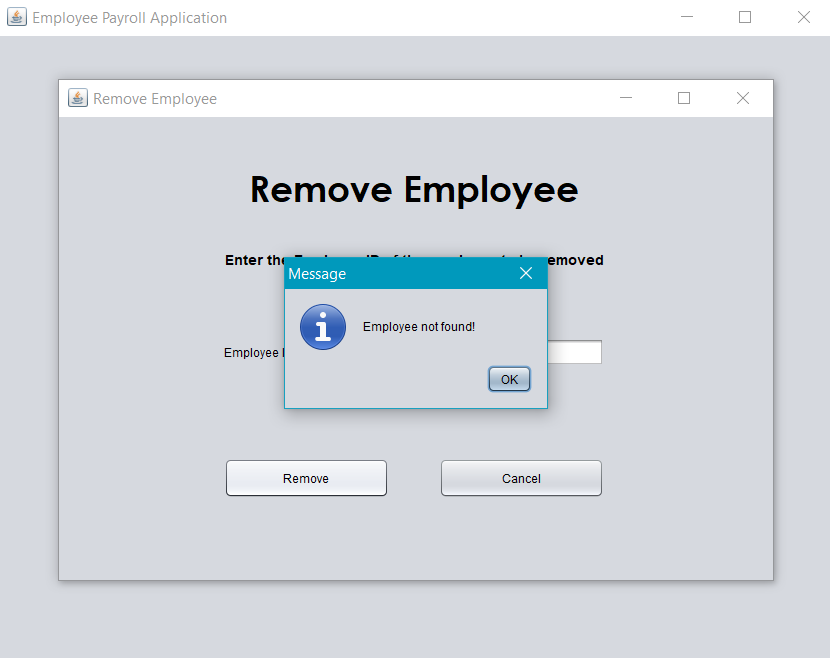
**Remove Employee Window:**

****

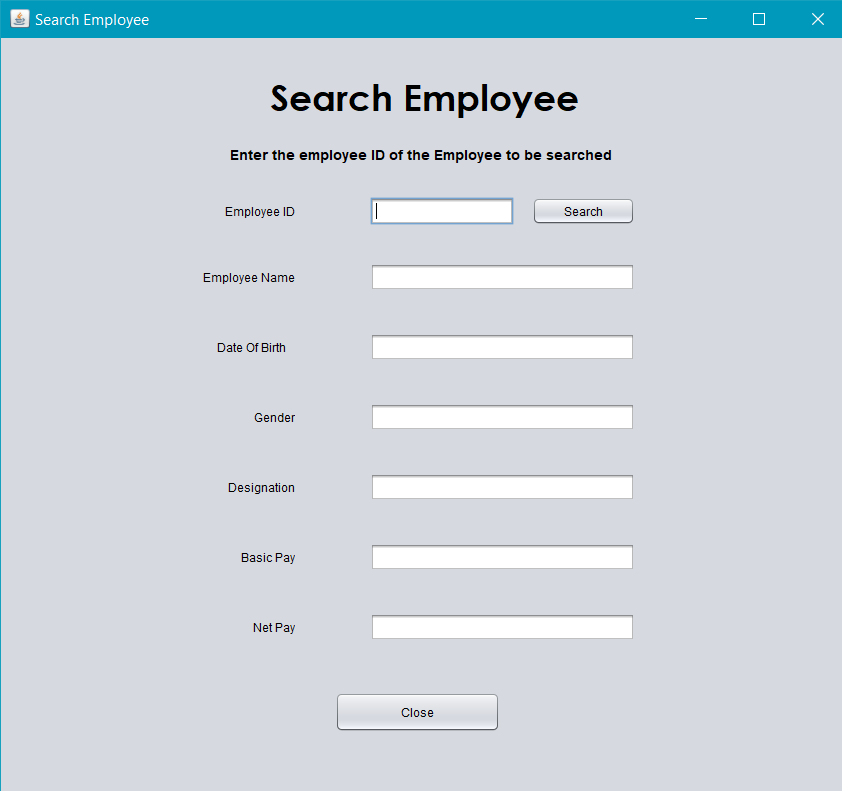
**After Successful Removal:**

****

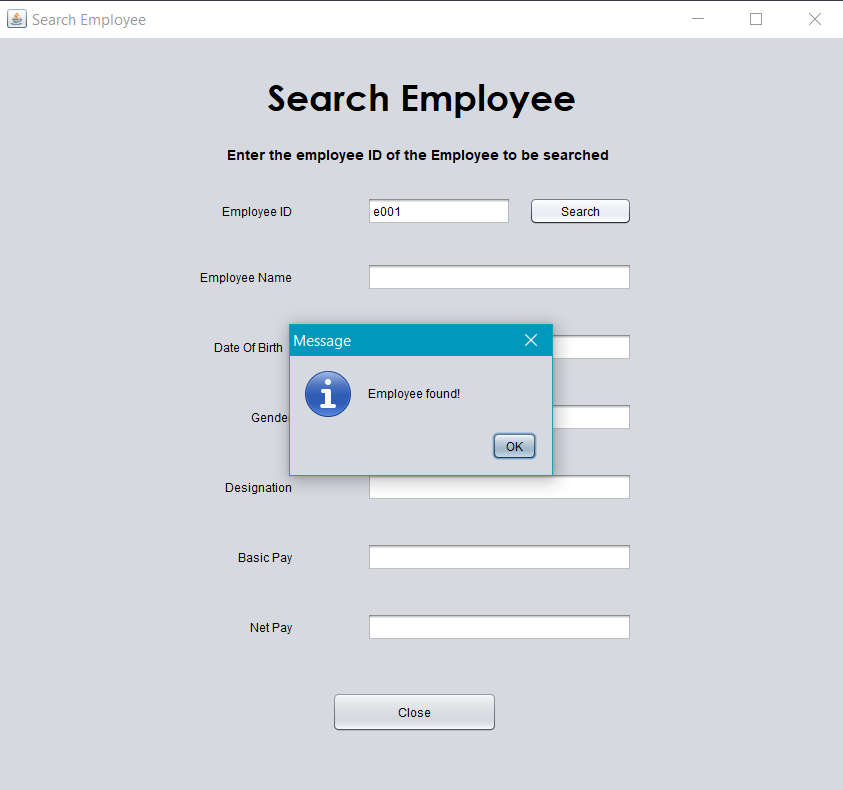
**Erroneous Removal:**

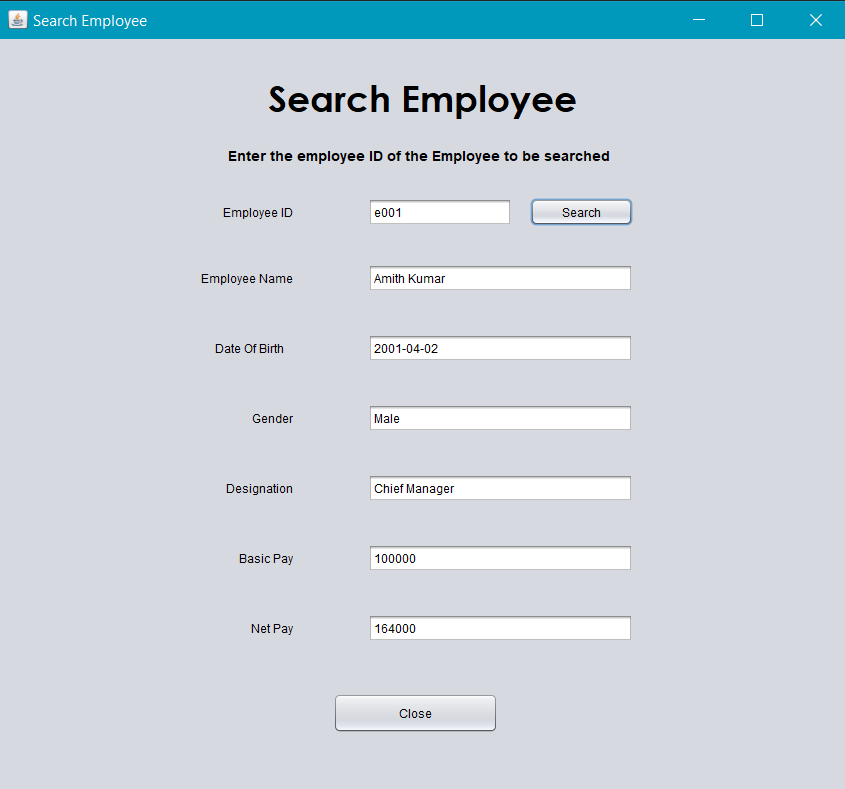
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**Search Employee Window:**

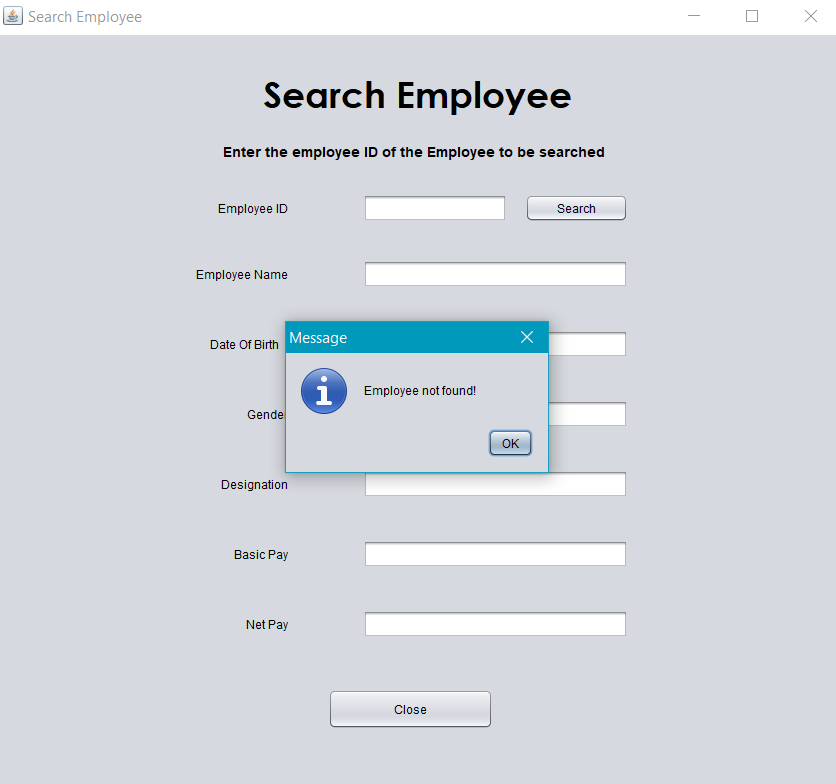
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**After Successful Search:**

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**Erroneous Search:**

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**SQL Script for table and procedure creation:**

create table emp\_payroll

(

    eid varchar2(4) constraint EMP\_PAYROLL\_PK primary key,

    ename varchar2(30),

    dob date,

    sex varchar2(7),

    designation varchar2(30),

    basic number(9,2),

    da number(9,2),

    hra number(9,2),

    pf number(9,2),

    mc number(9,2),

    gross number(9,2),

    tot\_deduc number(9,2),

    net\_pay number(9,2)

);

create or replace procedure cal\_net\_pay

(p\_eid emp\_payroll.eid%type, p\_basic emp\_payroll.basic%type)

is

    p\_da emp\_payroll.da%type;

    p\_hra emp\_payroll.hra%type;

    p\_pf emp\_payroll.pf%type;

    p\_mc emp\_payroll.mc%type;

    p\_gross emp\_payroll.gross%type;

    p\_tot\_deduc emp\_payroll.tot\_deduc%type;

    p\_net\_pay emp\_payroll.net\_pay%type;

begin

    p\_da:=0.6\*p\_basic;

    p\_hra:=0.11\*p\_basic;

    p\_pf:=0.04\*p\_basic;

    p\_mc:=0.03\*p\_basic;

    p\_gross:=p\_basic+p\_da+p\_hra;

    p\_tot\_deduc:=p\_pf+p\_mc;

    p\_net\_pay:=p\_gross-p\_tot\_deduc;

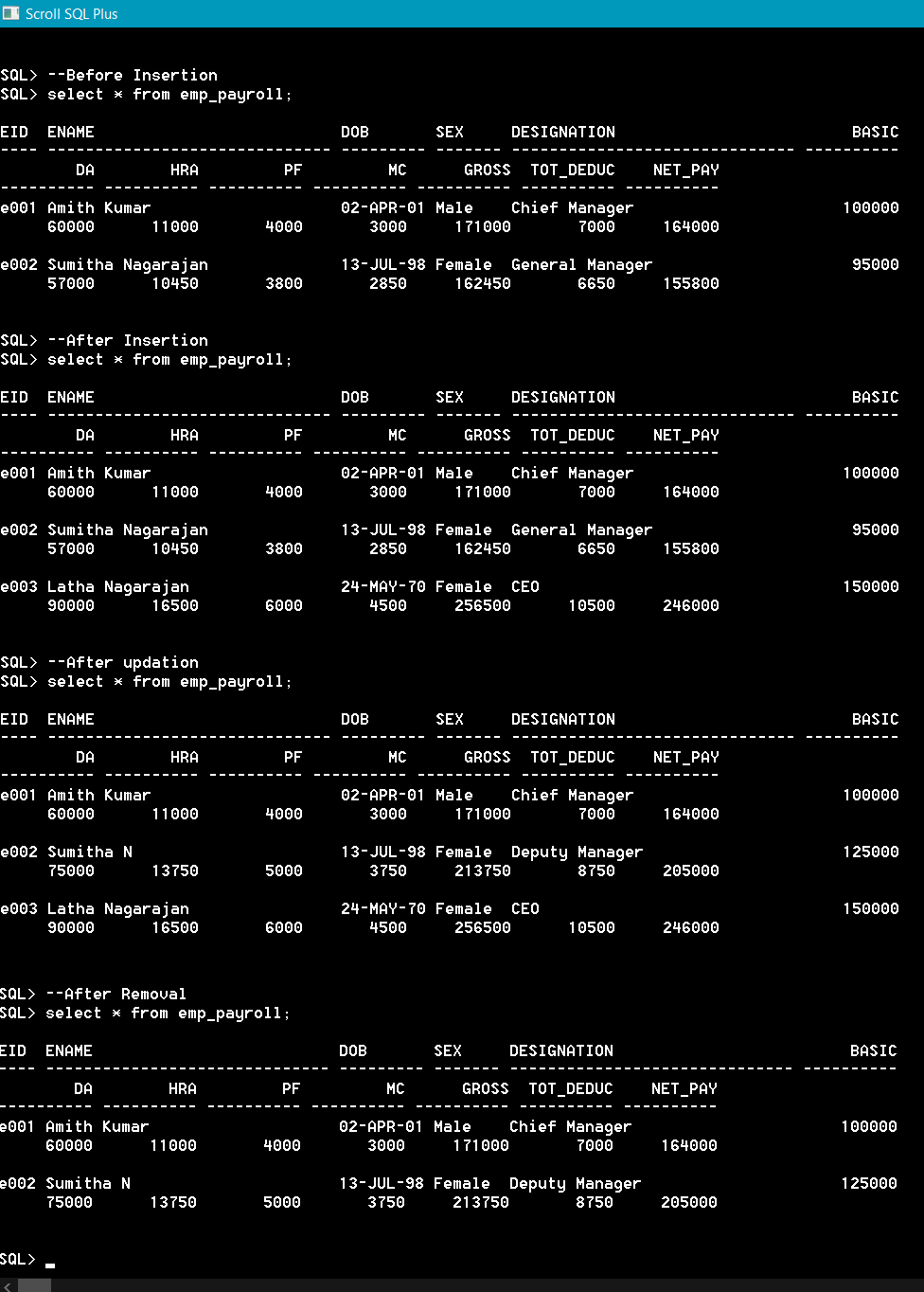
    update emp\_payroll set da = p\_da, hra = p\_hra, pf = p\_pf, mc = p\_mc, gross = p\_gross, tot\_deduc = p\_tot\_deduc, net\_pay = p\_net\_pay

    where eid = p\_eid;

end;

/

**Screenshots of the Emp\_Payroll table updating in real time:**

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