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import java.sql.*;

class test1
{
    public static void main(String args[])
    {
        String url = "jdbc:mysql://localhost:3306/te";
        String username="root";
        String password="";
        Connection con=null;

        ResultSet rs;
        int ch,id,age,sal;
        String sql,fname,lname,hdate;

        try
        {
            System.out.println("Connecting Database..");
            con=DriverManager.getConnection(url,username,password);
            System.out.println("Database Connected..");
            Statement stmt=con.createStatement();

            do
            {
                System.out.println("\n");
                System.out.println("Menu:");
                System.out.println("1.Create table");
                System.out.println("2. Insert data");
                System.out.println("3. Update");
                System.out.println("4. Delete table");
                System.out.println("5. Show data");
                System.out.println("6. Call Stored Procedure");
                System.out.println("7. Exit");
                System.out.println("Enter your choice: ");

                BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
                ch=Integer.parseInt(br.readLine());

                switch(ch)
                {
                    case 1:
                        sql="create table Emp"+"(EmpID int(10),"+" FirstName
varchar(15),"+" LastName varchar(15),"+" Age int(10),"+" Salary int(10),"+" HireDate
date)";

                        stmt.executeUpdate(sql);
                        System.out.println("Created Employee Table....");
                        break;

                    case 2:
                        System.out.println("Enter Employee ID: ");
                        id=Integer.parseInt(br.readLine());
                        System.out.println("Enter Employee's First Name: ");
                        fname=br.readLine();
                        System.out.println("Enter Employee's Last Name: ");
                        lname=br.readLine();
                        System.out.println("Enter Employee's Age: ");
                        age=Integer.parseInt(br.readLine());
                        System.out.println("Enter Employee's Salary: ");
                        sal=Integer.parseInt(br.readLine());
                        System.out.println("Enter Employee's Hire Date: ");
                        hdate=br.readLine();
                        sql="insert into Emp values(?,?,?,?,?,?)";

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        PreparedStatement p=con.prepareStatement(sql);
        p.setInt(1,id);
        p.setString(2,fname);
        p.setString(3,lname);
        p.setInt(4,age);
        p.setInt(5,sal);
        p.setString(6,hdate);
        p.executeUpdate();
        System.out.println("Record Added");
        //p.close();
        //con.close();
        break;

    case 3:
        System.out.println("Enter Employee ID for the record you wish
to Update: ");

        id=Integer.parseInt(br.readLine());
        System.out.println("Enter new First Name: ");
        fname=br.readLine();
        System.out.println("Enter new Last Name: ");
        lname=br.readLine();
        System.out.println("Enter new Age: ");
        age=Integer.parseInt(br.readLine());
        System.out.println("Enter new Salary: ");
        sal=Integer.parseInt(br.readLine());
        System.out.println("Enter new Hire Date: ");
        hdate=br.readLine();
        sql="update Emp set FirstName=?,LastName=?,Age=?,
Salary=?,HireDate=? where EmpID=?";
        p=con.prepareStatement(sql);
        p.setString(1,fname);
        p.setString(2,lname);
        p.setInt(3,age);
        p.setInt(4,sal);
        p.setString(5,hdate);
        p.setInt(6,id);
        p.executeUpdate();
        System.out.println("Record Updated");
        //p.close();
        //con.close();
        break;

    case 4:
        sql="drop table Emp";
        stmt.executeUpdate(sql);
        System.out.println("Table deleted....");
        break;

    case 5:
        sql="select * from Emp";
        rs=stmt.executeQuery(sql);

        System.out.println("\tEmpID"+"\tFirstName"+"\tLastName"+"\tAge"+"\tSalary"+"\tHireDate"
;

        while(rs.next())
        {
            System.out.println("\n");
            System.out.print("\t" +rs.getInt(1));
            System.out.print("\t" +rs.getString(2));
            System.out.print("\t" +rs.getString(3));
            System.out.print("\t" +rs.getInt(4));
            System.out.print("\t" +rs.getInt(5));
            System.out.print("\t" +rs.getString(6));
        }
    }
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        break;

    case 6:

        CallableStatement cs=null;
        try
        {

            cs =con.prepareCall("{call SalaryOfEmployee(?)}");
            cs.setInt(1, 1000);
            rs=cs.executeQuery();
            while(rs.next())
            {
                System.out.println("\n");
                System.out.print("\t" +rs.getInt(1));
                System.out.print("\t" +rs.getInt(2));

            }
        }catch(SQLException e)
        {
            e.printStackTrace();
        }finally
        {
            try
            {
                if(cs != null)
                    cs.close();
            }catch(SQLException e)
            {
                e.printStackTrace();
            }
        }
        break;

    case 7:
        break;

    default:
        System.out.println("Invalid Choice");
        break;
    }
}while(ch!=7);
}catch(SQLException e)
{
    System.err.println("Cannot connect to the database!..");
    e.printStackTrace();
} catch (NumberFormatException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
} catch (IOException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
}
}finally
{
    System.out.println("Closing the connection..");
    if(con!=null) try{ con.close(); } catch(SQLException ignore){}
}
}
```