Dt : 10/11/2023

Assignment:

DB table : UserReg57

    (uname,pword,fname,lname,addr,mid,phN)

    primary key : uname

Construct JDBC Application to perform the following Operations:

 Choice:

  1.User-Registration

  2.User-Login

1.User-Registration:

 =>read all user details from console and Insert into DB table

  o/p:

   User registered Successfully...

    1.User-Registration

    2.User-Login

  select => 2.User-Login

   =>read uname and pword,and check the login process

    =>If Login Successfull

Choice:

   1.ViewProfile

   2.UpdateProfile(addr,mid,phno)

   3.Exit

(choice is repeated until we exit)

=>If Login failed

  o/p:

   Invalid Login process...

  Choice:

   1.User-Registration

   2.User-Login

==

3.CallableStatement:

 =>'CallableStatement' is an interface from java.sql package and which

  is used to execute 'Procedures and Functions' from the DB Product.

 =>we use prepareCall() method from 'Connection' interface to create

  implementation object for 'CallableStatement' interface.

Method Signature of prepareCall():

public abstract java.sql.CallableStatement prepareCall(java.lang.String)

        throws java.sql.SQLException;

syntax:

CallableStatement cs = con.prepareCall("{call Proc/Func}");

--

Diagram:

define Functions?

  =>The part of program which is executed out of main-program in C-lang

   is known as Function.

define Member Function?

  =>The Function which can be declared outside the Class or Inside the

   Class in C++ lang,is known as Member Function

define Methods?

  =>The functions which are declared only inside the class in Java-Lang

   are known as Methods.

 ---

faq:

define Procedure?

  =>Procedure is a set-of-queries executed on DB product,and which

willnot return any value after execution.

(Procedure means NonReturn_type)

structure of procedure:

```
create or replace procedure Proc_name
(para_list) is
begin
   query1;
   query2;
   ...
end;
/
```

faq:

define Function?

=>Function is also a set-of-queries executed on DB product and which will return value after execution.(Function means Return_type)

structure of Function:

```
create or replace function Func_name
   (para_list)return data_type as var data_type;
begin
```

```
    query1;

    query2;

    ....

    return var;

end;

/
```

===

faq:

Types of Prcedures:(Stored Procedures)

  =>Procedures are categorized into the following:

    (i)IN Parameter Procedures

    (ii)OUT Parameter Procedures

    (iii)IN-OUT Parameter Procedures

(i)IN Parameter Procedures:

  =>The Procedures which take the data from JavaPrograms and send to

    DB Product are known as 'IN Parameter Procedures'

(ii)OUT Parameter Procedures:

  =>The Procedures which take the data from DB Product and send to

    JavaPrograms are known as 'OUT Parameter Procedures'

(iii)IN-OUT Parameter Procedures:

=>The procedures which take and send data from DB Product and

JavaPrograms,are known as IN-OUT Parameter Procedures.

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