Retrieving Stream(Image) from Database Product:

```
Program: DBCon10.java
package test;
import java.util.*;
import java.io.*;
import java.sql.*;
public class DBCon10 {
     public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        try(s;){
           Class.forName("oracle.jdbc.driver.OracleDriver");
           Connection con = DriverManager.getConnection
     ("jdbc:oracle:thin:@localhost:1521:xe", "system", "tiger");
           PreparedStatement ps = con.prepareStatement
                      ("select * from StreamTab72 where id=?");
           System.out.println("Enter the User-Id to retrive details:");
           String id = s.nextLine();
           ps.setString(1, id);
           ResultSet rs = ps.executeQuery();
           if(rs.next()) {
                Blob b = rs.qetBlob(3);
                byte by[] = b.getBytes(1, (int)b.length());
                System.out.println("User-Id:"+rs.getString(1));
                System.out.println("User-Name:"+rs.getString(2));
                System.out.println("Enter the Lacation(fPath&fName-
destination) to store Stream: ");
                String path = s.nextLine();
                FileOutputStream fos = new FileOutputStream(path);
                fos.write(by);
                System.out.println("Stream stored to specified
location...");
                fos.close();
           }else {
                System.out.println("Invalid User Id....");
        }catch(Exception e) {
           e.printStackTrace();
     }
}
```

o/p:

Enter the User-Id to retrive details:

A121

User-Id:A121

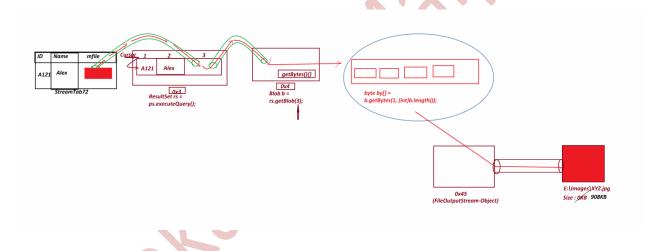
User-Name:Alex

Enter the lacation(fPath&fName-destination) to store Stream:

E:\Images\XYZ.jpg

Stream stored to specified location....

Diagram:



faq:

define 'FileInputStream'?

=>'FileInputStream' is a class from java.io package and which is instantiated to link(open)
the file to read Byte-Stream data.

syntax:

FileInputStream fis = new FileInputStream("fPath&fName");

```
faq:
define 'FileOutputStream'?
 =>'FileOutputStream' is a class from java.io package and which is instantiated to create
   a new file with OKB and links(opens) the file to write Byte-stream data.
 syntax:
 FileOutputStream fos = new FileOutputStream("fPath&fName");
faq:
define setBinaryStream() method?
 =>setBinaryStream()-method belongs to PreparedStatement and which links stream to
  parameter-index-field of PreparedStatement Object.
=>Through this method we must specify para-index-no,location-of-stream and length-of-
stream.
syntax:
ps.setBinaryStream(3, fis, f.length());
faq:
define getBlob() method?
 =>getBlob()-method is from ResultSet and which is used to instantiate Blob-Interface and
  this Blob-Object internally linked to Stream-column of ResultSet.
 syntax:
 Blob b = rs.getBlob(3);
```

*imp
faq:
define getBytes() method?
=>getBytes()-method is from Blob,and which is used to convert stream into byte-Array.
syntax:
byte by[] = b.getBytes(1, (int)b.length());
*imp
CallableStatement:
=>'CallableStatement' is an interface from java.sql package and which is used to execute
Procedures and Functions on Database product.
=>we use prepareCall()-method from 'Connection-interface' to create implementation Object
for 'CallableStatement Interface', because the prepareCall()-method internally holding
'Anonymous Local InnerClass as implementation class of CallableStatement' and generate
CallableStatement Object.
Method Signature of prepareCall():
public abstract java.sql.CallableStatement prepareCall(java.lang.String)
throws java.sql.SQLException;
syntax:
CallableStatement cs = con.prepareCall("{call Proce_name/Func_name}");