**STORE AND RETRIVE IMAGE FROM DATABASE USING JAVA**

**Aim:**

To Store and Retrieve the image in the database.

**Description:**

Store and Retrieve images in the database in java by the help of PreparedStatement interface.

The setBinaryStream() method of PreparedStatement is used to set Binary information into the parameterIndex.

The syntax of setBinaryStream() method,

1) public void setBinaryStream(int paramIndex,InputStream stream) throws SQLException

2) public void setBinaryStream(int paramIndex,InputStream stream,long length) throws SQLException

For storing image into the database, BLOB (Binary Large Object) datatype is used in the table.

For example:

“CREATE TABLE IMGTABLE(NAME VARCHAR2(4000),PHOTO BLOB)”

The image is stored in the imgtable.

To retrieve the image from the database and write it into the directory so that it can be displayed.

[InputStream](https://docs.oracle.com/javase/7/docs/api/java/io/InputStream.html) getBinaryStream() throws [SQLException](https://docs.oracle.com/javase/7/docs/api/java/sql/SQLException.html)

Retrieves the BLOB value designated by this Blob instance as a stream.

Returns:

a stream containing the BLOB data

Now if you see the d drive, IMGID.jpg image is created.

**Souce Code:**

import java.awt.image.BufferedImage;

import java.io.\*;

import java.sql.\*;

import javax.imageio.ImageIO;

public class image\_db {

public static void main(String arg[]) throws Exception {

Connection con; ResultSet rs; PreparedStatement ps, ps1;

InputStream is; BufferedImage image;

Try

{

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");

con = DriverManager.getConnection("jdbc:odbc:db", "system", "manager");

System.out.println("INSERTING IMAGE...."); //just for information

ps = con.prepareStatement("insert into img values(?,?)"); //query for insert image

ps.setInt(1, 11);//first colum,image id(id for name)

is = new FileInputStream(new File("e:\\IMG\\image1.jpg")); //image file locaton with name

ps.setBinaryStream(2, is, is.available());//2nd column ,image source

ps.executeUpdate(); //image inserted

System.out.println("!!!\_\_IMAGE INSERTED\_\_!!!");

ps1 = con.prepareStatement("select \* from img ORDER BY id");//select all of image

rs = ps1.executeQuery();//execute query

int i = 0;

while (rs.next())

{

i = rs.getInt("id");//getInt(id) for name and identify image

image = ImageIO.read(rs.getBinaryStream("pic"));//"pic" is COLUMN name

File ouptut = new File("E:\\IMG\\OUTPUT\\" + i + ".jpg");//writing image output location

ImageIO.write(image, "jpg", ouptut);//writing image

System.out.println("IMAGE RETRIVE SUCCESSFULLY !!!, id = "+i);

}

} catch (Exception e)

{System.out.println(e.getMessage()); //for display any information}

}

}

**Output:**



