צור בלוג   היכנס   עוד   הבלוג הבא»   1   G+1

Harmeet Singh(Taara)

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Programmers-Nest

Thursday, March 21, 2013

Insert and Retrieve Images from MySql Table Using Java

Demonstrate to insert and retrieve the images from database table. Mostly the images are stored from outside the database(some folders) and store the path of the images into database tables . but in some scenario we need to insert the images into database tables in binary format.

Requirements :

1. Download and Install JDK on your System.
2. Download and Install MySql server and install.
3. Download MySQL Connector or Drivers for use MySQL with Java.

Create Table in MySQL :

```
CREATE TABLE `image` (
  `id` varchar(45) DEFAULT NULL,
  `size` int(11) DEFAULT NULL,
  `image` longblob
);
```

In MySQL when we use the `blob` type to store the data , it support only 5 kb image capacity. its depends on different database vendors . according to some more database vendors the `blob` type support large capacity. So the type of image type is depends on database vendors.

Insert The Image In Database :

```java
import java.sql.*;
import java.io.*;
public class InsertImagesMysql{
     public static void main(String[] args){
            System.out.println("Insert Image Example!");
            String driverName = "com.mysql.jdbc.Driver";
            String url = "jdbc:mysql://localhost:3306/";
            String dbName = "test";
            String userName = "root";
            String password = "root";
            Connection con = null;
            try{
               Class.forName(driverName);
               con = DriverManager.getConnection(url+dbName,userName,password);
               Statement st = con.createStatement();
               File imgfile = new File("pic.jpg");

              FileInputStream fin = new FileInputStream(imgfile);

              PreparedStatement pre =
              con.prepareStatement("insert into Image values(?,?,?)");

              pre.setString(1,"test");
              pre.setInt(2,3);
              pre.setBinaryStream(3,(InputStream)fin,(int)imgfile.length());
              pre.executeUpdate();
              System.out.println("Successfully inserted the file into the database!");

              pre.close();
              con.close();
            }catch (Exception e1){
                System.out.println(e1.getMessage());
            }
        }
     }
}
```
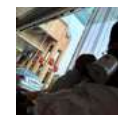
Compile & Run The Task :

1. javac -cp mysql-connector-java-5.0.5-bin.jar;. InsertImagesMysql.java
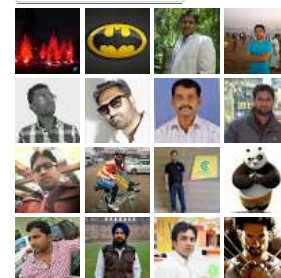
Blog Archive

Social Sites

2. java -cp mysql-connector-java-5.0.5-bin.jar;. InsertImagesMysql

Retrieve The Image From Database :

```
import java.sql.*;
import java.io.*;
public class RetriveImagesMysql{
    public static void main(String[] args){
        System.out.println("Retrive Image Example!");
        String driverName = "com.mysql.jdbc.Driver";
        String url = "jdbc:mysql://localhost:3306/";
        String dbName = "test";
        String userName = "root";
        String password = "root";
        Connection con = null;
        try{
            Class.forName(driverName);
            con = DriverManager.getConnection(url+dbName,userName,password);
            Statement stmt = con.createStatement();
            ResultSet rs = stmt.executeQuery("select image from image");
            int i = 0;
            while (rs.next()) {
                InputStream in = rs.getBinaryStream(1);
                OutputStream f = new FileOutputStream(new File("test"+i+".jpg"));
                i++;
                int c = 0;
                while ((c = in.read()) > -1) {
                    f.write(c);
                }
                f.close();
                in.close();
            }
        }catch(Exception ex){
            System.out.println(ex.getMessage());
        }
    }
}
```

Compile & Run The Task :

1. javac -cp mysql-connector-java-5.0.5-bin.jar;. RetriveImagesMysql.java
2. java -cp mysql-connector-java-5.0.5-bin.jar;. RetriveImagesMysql

Click Here To Download The Source Code

Posted by Harmeet Singh at 2:16 PM   G+1   +1   Recommend this on Google

31 comments:

xyz June 4, 2014 at 1:01 PM

hi...im not getting how to store and retrieve image from sql database and how to update that image ...im using image datatype

Reply

Replies

Harmeet Singh   June 4, 2014 at 3:21 PM

which SQL you for storing images ?

Muhammad Nauman December 21, 2014 at 3:14 PM

harmeet singh can you help in retrieving data from sql server 2008 r2, using front end ?

Reply

xyz June 4, 2014 at 1:04 PM

when im updating image it not taking new image path its taking older image path... let me know ..how to fetch and update image

Reply

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Harmeet Singh   June 4, 2014 at 3:22 PM

hey, you want to store images in database or store images path in database ?

Reply

xyz June 5, 2014 at 9:18 AM

Actually i wanted to store image directly in ms sql database because we aremaking online database so...i have stored image in database but when im updating image its taking old image only its not taking updated image so ...please help me...

Reply

xyz June 5, 2014 at 9:20 AM

please tell me how to store ,retrieve and update image in ms sql database using corejava

Reply

Replies

Harmeet Singh   June 5, 2014 at 12:16 PM

Hey i think, this will help you http://stackoverflow.com/questions/5613898/storing-images-in-sql-server

Reply

xyz June 9, 2014 at 9:25 AM

Actually i have inserted image and even i have retrieved image from ms sql database ......and im displaying image on jlabel using image path.....but ma problem is when first time i fetch image from database and i displayed image on jlabel....but when fech second image from database and its not displaying second image its displaying first image only....

Reply

Replies

Harmeet Singh   June 9, 2014 at 11:08 AM

i think this is the problem of repaint in java swings. Please verify that second image is fetched from database by using image size or name.

xyz June 9, 2014 at 1:53 PM

im fetching image by nid...

Harmeet Singh   June 9, 2014 at 2:27 PM

Actually my meaning is that, please verify that, the second image is retrieved from database. how we verify image is retrieve or not, from image size or name in while block. so, please check your second image is get from database or not/

Rama Krishna Reddy Sabbella July 22, 2015 at 11:34 AM

After Insertion done successfully put filepath as null otherwise it take same file again and again.

Reply

xyz June 9, 2014 at 9:26 AM

String sql = "Select * from tabimg where Nid='"+Integer.parseInt(img.getText())+"'";
Statement stmt2 = con.createStatement();
rs = stmt2.executeQuery(sql);
while(rs.next())
{
lblnid.setText(String.valueOf(rs.getInt("Nid")));
byte[] fileBytes;
fileBytes = rs.getBytes(2);
tmpFile = new File("tmpImage");
OutputStream targetFile=
new FileOutputStream(tmpFile);
targetFile.write(fileBytes);
targetFile.close();
ImageIcon icon = new ImageIcon(ImageIO.read(f2));
String ss=f2.getAbsolutePath();
img.setText(ss);
jLabel1.setIcon(new ImageIcon(ss));f.close();
in.close();
f2.delete();
f2.deleteOnExit();

targetFile.flush();
targetFile.close();
//

```
tmpFile.delete();
```
Reply

---

xyz June 9, 2014 at 9:27 AM

this is my code please help me how to solve this problem

Reply

---

xyz June 9, 2014 at 9:39 AM

```
try
{
String sql = "Select * from tabimg where Nid='"+Integer.parseInt(img.getText())+"'";
Statement stmt2 = con.createStatement();
rs = stmt2.executeQuery(sql);
while(rs.next())
{
lblnid.setText(String.valueOf(rs.getInt("Nid")));
byte[] fileBytes;
fileBytes = rs.getBytes(2);
int i = 0;

tmpFile = new File("tmpImage");
OutputStream targetFile=
new FileOutputStream(tmpFile);
targetFile.write(fileBytes);
targetFile.close();
ImageIcon icon = new ImageIcon(ImageIO.read(tmpFile));
String ss=tmpFile.getAbsolutePath();
img.setText(ss);
jLabel1.setIcon(new ImageIcon(ss));


targetFile.flush();
targetFile.close();
//
tmpFile.delete();


}}
catch(Exception e)
{
JOptionPane.showMessageDialog(null,e);
}
Sorry this is my code....
```

Reply

> Replies
>
> **Unknown** April 11, 2016 at 4:00 AM
>
> just add repaint(); at the last of your code.

Reply

Bunny Is A Macho Man October 1, 2014 at 11:18 PM

Hello Harmeet,How can I upload files greateer than 1 mb to myswl database..? I am using a mediumblob..but still cannot upload files greater than 1 mb..also with longblob it is not working ? please guide me
Bharani

Reply

Unknown November 6, 2014 at 1:41 AM

Harmeet Singh please I want to save image into MYSQL database and load into the jtable then click on jtable for the image to fill the jlabel on the jframe form.

my name is Jones

Reply

---

ullas sharma March 8, 2015 at 6:02 PM

```
your source is good. but this part :
InputStream in = rs.getBinaryStream(1);
while ((c = in.read()) > -1) {
f.write(c);
}
```
is very costly especially if the image is big. i tried above approach and it took about 27 seconds to write one file of 7.2MB.

I found an alternative approach as below :

```
Blob b=rs.getBlob(2);
byte barr[]=b.getBytes(1,(int)b.length());
```

FileOutputStream fout=new FileOutputStream("./sample/sample.jpg");
fout.write(barr);

This is significantly faster. It took about 0.1 seconds to write the same image of 7.2MB.

Reply

ullas sharma March 8, 2015 at 6:10 PM

Also , there are 5 variable types with respect to blob. blob, medium blob ,large blob,block blob and page blob , which allow storage of 65kb , 16mb and 4.2gb,200gb , 1TB respectively

Reply

Abhinav Tiwari March 26, 2015 at 12:58 AM

really helpful stuff

Reply

Unknown April 15, 2015 at 1:27 AM

Hi, anybody can help me on how to save/ retrieve image using Java Servlets from MySQL DB in JSP / HTML5 as view ?

Reply

pankaj kharetwal May 1, 2015 at 8:54 PM

harmeet sir ! according to your code, where should be placed my image before inserting??

Reply

youssef moudine May 25, 2015 at 2:47 AM

thanks so much works great !

Reply

Hitesh Chavarkar November 19, 2015 at 5:57 PM

use longblob for img datatype

Reply

YOGESH SENDANE January 6, 2016 at 11:51 AM

sir can i resize any image by using mysql or java OR connecting both each other.
If we can please let me know sir i want to make a project sit.
thankyu

Reply

Replies

P. Aaditya April 11, 2016 at 4:04 AM

package image.resizing;

```
import java.awt.Graphics2D;
import java.awt.Image;
import java.awt.RenderingHints;
import java.awt.Robot;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.image.BufferedImage;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.imageio.ImageIO;
import javax.swing.ImageIcon;
import javax.swing.JButton;
import javax.swing.JFileChooser;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.filechooser.FileNameExtensionFilter;

/**
 *
 * @author Pratyush Aaditya
 */
public class ImageResizing extends JFrame{

/**
 * @param args the command line arguments
 */
```

```
ImageResizing(){
GUI();
}

public static void main(String[] args) {
ImageResizing ob=new ImageResizing();
}

private Image resizeImage(int width, int height, Image img){

BufferedImage resizedImage=new BufferedImage(width,height,BufferedImage.TYPE_INT_RGB);
Graphics2D g2=resizedImage.createGraphics();
g2.setRenderingHint(RenderingHints.KEY_INTERPOLATION, RenderingHints.VALUE_INTERPOLATION_BILINEAR);
boolean drawImage = g2.drawImage(img, 0, 0, width, height, null);
return resizedImage;
}

private File filechooser(){
File selectedFile=null;
String path=System.getProperty("user.home");
JFileChooser chooser=new JFileChooser(path);
//Only file will be selected. Not Folders.
chooser.setFileSelectionMode(JFileChooser.FILES_ONLY);
//Only images will be selected not all.
String [] typeOfFile={"jpg", "png", "jpeg"};
String descriptionOfFile="Images only!!!";
chooser.setFileFilter(new FileNameExtensionFilter(descriptionOfFile, typeOfFile));
chooser.setAcceptAllFileFilterUsed(false); //All files not allowed.
int result=chooser.showOpenDialog(this);
if(result==JFileChooser.APPROVE_OPTION){
selectedFile=chooser.getSelectedFile();
}
return selectedFile;
}

private void GUI(){
setVisible(true);
setSize(600,500);
setLayout(null);
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setLocationRelativeTo(null);

JLabel imageLabel=new JLabel();
imageLabel.setBounds(0,0,getWidth(),getHeight()-70);
add(imageLabel);

JButton resizeButton=new JButton("Resize pic");
resizeButton.setBounds(400,434,180,20);
add(resizeButton);

File file=filechooser();
if (file!=null) {
System.out.println("Selected File is : "+file.getName());
ImageIcon img=new ImageIcon(file.getAbsolutePath());
imageLabel.setIcon(img);
}else{
System.out.println("Not selected!");
}

resizeButton.addActionListener(new ActionListener(){
@Override
public void actionPerformed(ActionEvent e) {
if(file!=null){
try {
Image im=ImageIO.read(file);
im=resizeImage(getWidth(),getHeight()-70, im);
//ImageIO.write(im, "png", new File("D:\\scrn.png"));
imageLabel.setIcon(new ImageIcon(im));
} catch (IOException ex) {
System.out.println(ex);
}
}else{JOptionPane.showMessageDialog(null, "No File Selected");}
}

});
}
}
```

Reply

Vithanage Thusha February 20, 2016 at 12:55 PM

Image is not getting store in the My sql DB, anyone please help me ?

Reply

Vithanage Thusha February 20, 2016 at 12:58 PM

I followed the above code, there is no error msg is appearing, but it;s not getting store in to the database. please help ASAP..

Reply

Kapil Sharma March 19, 2016 at 7:24 PM

i have follow your code it compile successfully by image do not show

Reply

```
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```

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