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## How to save image files to mysql with sql code and how to display them with java?

I want to save image files to database by java, file chooser.

My db name is "gallery\_images", table name is "image\_table", and the columns are "image id(int)"autoincrement, "image(longblob)", and "username(varchar(45))".

I can add images to my mysql database by workbench to a longblob (right click on longblob cell, "Load Value From File"), and when I execute it, it gives me this code:

```
INSERT INTO `image_table`.`gallery_images` (`image`, `username`) VALUES (?, 'viktor');
```

The "?" should be the image, so I didn't learn much by this code. When I read a File by java, how could I insert it into my table (with jdbc)?

And when I done with this, I want to query every data from that table:

```
SELECT * FROM image_table;
```

I want to save the images from the DB to a List:

```
private List<Image> images;
```

I think, I should use the "while(resultset.next())", but how should I get the image from the resultset in the while? Can any one help me with this? Thank you!

java mysql image file blob

asked Mar 5 '13 at 19:53



victorio

795 5 21 50

3 (Why) Do you need to save an image in a database? [stackoverflow.com/questions/3748/...](http://stackoverflow.com/questions/3748/...) – Andreas Mar 5 '13 at 19:55

I want to create a JAR program to my friend, who should read and insert datas from/to DB, such as like images – victorio Mar 5 '13 at 19:56

2 See [What is the best way to serialize an image \(compatible with Swing\) from Java to Android?](#) . – Eng.Fouad Mar 5 '13 at 19:57

1 This Tutorial will help you understand How to insert an Image and load an Image file from database [youtube.com/watch?v=AZE4A5sT5q4](http://youtube.com/watch?v=AZE4A5sT5q4) – Azad Mar 5 '13 at 20:42

### 4 Answers

Images insertion (from JPG files on local disk) into MySQL db using JDBC:

```
package dbTest;

import java.io.ByteArrayOutputStream;
import java.io.File;
import java.io.FileInputStream;
import java.io.InputStream;
import java.sql.DriverManager;

import com.example.pompeymenu.Dish;
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.PreparedStatement;

public class DishAdder {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int bytesRead;
```

```

try {
    //setting filenames
    File[] filesd = new File[6];
    String fileName[] = new String[] { "1.JPG", "2.JPG", "3.JPG", "4.JPG",
    "5.JPG", "6.JPG"};
    String dishName[] = new String[] {
        "Cake with cherries",
        "Tiramisu",
        "Cheese cake",
        "Pana Cotta",
        "Ice cream",
        "Apple Pie"
    };

    Connection conn = null;
    String userName = "your_user_name";
    String password = "your_db_password";
    String url = "jdbc:mysql://your_db_url";
    Class.forName("com.mysql.jdbc.Driver").newInstance();
    conn = (Connection) DriverManager.getConnection(url, userName,
password);

    //Statement s = null;
    PreparedStatement s = null;
    String qryInsert = "INSERT INTO MENU (DISH_NAME, DISH_IMG) VALUES (?,
?)";

    //for (int i=5; i<6; i++) {
        int i=5;
        ByteArrayOutputStream bos = new ByteArrayOutputStream();
        filesd[i] = new File("E:/Android/Images/" + fileName[i]);

        InputStream is = new FileInputStream(filesd[i]);
        byte[] b = new byte[8096];
        while ((bytesRead = is.read(b)) != -1) {
            bos.write(b);
        }
        byte[] bytes = bos.toByteArray();

        //save byte[] to DB

        s = (PreparedStatement) conn.prepareStatement(qryInsert);
        s.setString(1, dishName[i]);
        s.setBytes(2, bytes);
        s.executeUpdate();

    //}

    s.close();
    conn.close();

} catch (Exception e) { e.printStackTrace(); }

}
}

```

answered Mar 5 '13 at 21:30



**Rodion Altshuler**

906 5 19

[benignosales.wordpress.com/2011/10/24/...](http://benignosales.wordpress.com/2011/10/24/) <-- it could be a solution, he does almost the same I want to, upload image files by primefaces into mysql DB, and then browse the images from the DB, but it doesn't show the DAO files, which (I think) the real solution, how to upload image to DB, and download image into a folder in WebContent folder — [victorio](#) Mar 6 '13 at 14:42

[knowledgeshare.awardspace.info/?p=87](http://knowledgeshare.awardspace.info/?p=87) <-- this is an another example, but in this project, the program doesn't save the file into a folder, it goes to a servlet doGet method, and that method makes the magic to show the image. Am I right? I don't really understand, how this doGet works, but I will figure it out... — [victorio](#) Mar 6 '13 at 15:10

Read images from MySQL db using JDBC, works for me on Android:

```

import java.sql.DriverManager;
import java.util.ArrayList;

import android.graphics.Bitmap;
import android.graphics.BitmapFactory;

import com.mysql.jdbc.Blob;
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.ResultSet;
import com.mysql.jdbc.Statement;

/**
 *
 * Loads products from external MySQL database, registered on db4free.net
 *
 * @author Rodion Altshuler
 *
 */

public class CatalogDBSource implements CatalogSource{

    Connection conn=null;
    String userName = "???" ;
    String password = "???" ;
    String url = "jdbc:mysql://???" ;

```

```

        String url = "jdbc:mysql://localhost:3306/";

        /**
         * Set this flag=true before calling getProducts(), for example, in order to make
         * several requests to DB
         * without re-opening connection each time
         */
        public boolean flag_closeConnection=true; //if set to false, connection after
        getProducts() will retain opened

        /**gets products from external DB
         * needs INTERNET permission and MySQL driver
         */
        @Override
        public ArrayList<Product> getProducts() {

            Thread getProductsThread = new Thread(new Runnable(){

                @Override
                public void run(){

                    try {

                        if (conn==null) {
                            Class.forName("com.mysql.jdbc.Driver").newInstance();
                            conn = (Connection) DriverManager.getConnection(url,
userName, password);
                        }

                        Statement s = (Statement) conn.createStatement();
                        //String qry = "SELECT _ID, DISH_ID, DISH_NAME, DISH_CATEGORY,
DISH_IMG FROM MENU";
                        String qry = "SELECT _ID, DISH_NAME, DISH_IMG FROM MENU";
                        s.executeQuery(qry);

                        ResultSet rs = null;
                        rs = (ResultSet) s.getResultSet();

                        while (rs.next()) {
                            int id = rs.getInt("_ID");
                            String productName = rs.getString("DISH_NAME");
                            Blob b = (Blob) rs.getBlob("DISH_IMG");
                            Bitmap productImg = bitmapFromBlob(b);
                            Product p = new Product(id, productName, productImg, "");
                        //adding new item in ArrayList<Product> products, declared in
interface CatalogSource
                            products.add(p);

                        rs.close();
                        s.close();

                        if (flag_closeConnection) {
                            conn.close();
                        }

                    } catch (Exception e) {
                        e.printStackTrace();
                    }
                }
            });

            getProductsThread.start();

            try {
                getProductsThread.join();
            } catch (InterruptedException e1) {
                e1.printStackTrace();
            }

            return products;
        }

        /**
         * Converts Blob to Bitmap
         * @param b Blob object should be converted to Bitmap
         * @return Bitmap object
         */
        static Bitmap bitmapFromBlob(Blob b) {

            Bitmap bitmap=null;

            try {
                byte[] temp = b.getBytes(1,(int) b.length());
                bitmap = BitmapFactory.decodeByteArray(temp,0, temp.length);
            } catch (Exception e) {
                e.printStackTrace();
            }

            return bitmap;
        }
    }
}

```

answered Mar 5 '13 at 21:34



Rodion Altshuler

906 5 19

```
package fileChooser;

import java.io.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;

import javax.swing.JFileChooser;
import javax.swing.filechooser.FileFilter;
import javax.swing.filechooser.FileNameExtensionFilter;
public class FileChooserDialog {
    public static void main(String[] args) throws IOException, SQLException {
        JFileChooser fileopen = new JFileChooser();

        FileFilter filter = new FileNameExtensionFilter("c files", "c");
        fileopen.addChoosableFileFilter(filter);

        int ret = fileopen.showDialog(null, "Open file");

        if (ret == JFileChooser.APPROVE_OPTION) {
            File file = fileopen.getSelectedFile();
            System.out.println("file()===>>>" + file);
            String url = "jdbc:mysql://localhost:3306/test";
            String username = "root";
            String password = "root";
            Connection con = null;
            con = DriverManager.getConnection(url, username, password);
            String sql = "INSERT INTO image (id, image) VALUES (?, ?)";
            PreparedStatement stmt = con.prepareStatement(sql);
            stmt.setInt(1, 1);
            //stmt.setString(2, "Java Official Logo");

            FileInputStream fis = new FileInputStream(file);
            stmt.setBinaryStream(2, fis, (int) file.length());
            stmt.execute();
            fis.close();
            con.close();
        }
    }
}
```

answered Mar 5 '13 at 22:11



Hussain Akhtar Wahid

'Ghouri'

3,227 3 20 48

If you want to add just one image I guess you can use:

```
INSERT INTO image_table (username, image) VALUES
('viktor',load_file('path/image.jpg'));
```

answered Mar 7 '13 at 1:35



Kashtan

15 4