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Screenshots

MySQL Workbench

MySQL workbench screenshot shows the table used and extracts and has the query to show all the records stored in the table.

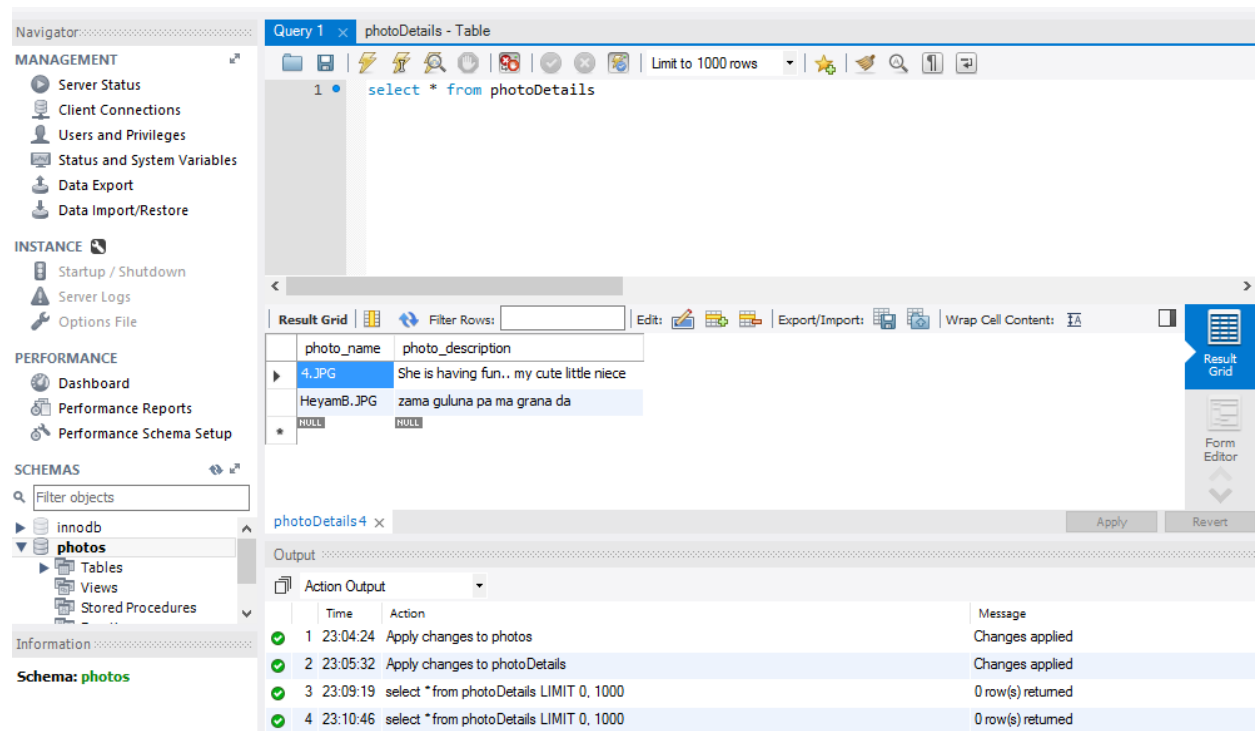


Figure 1: MySQL Workbench

Index Page

Following is the screenshot of index page to show the form where I ask the user for image and image description.

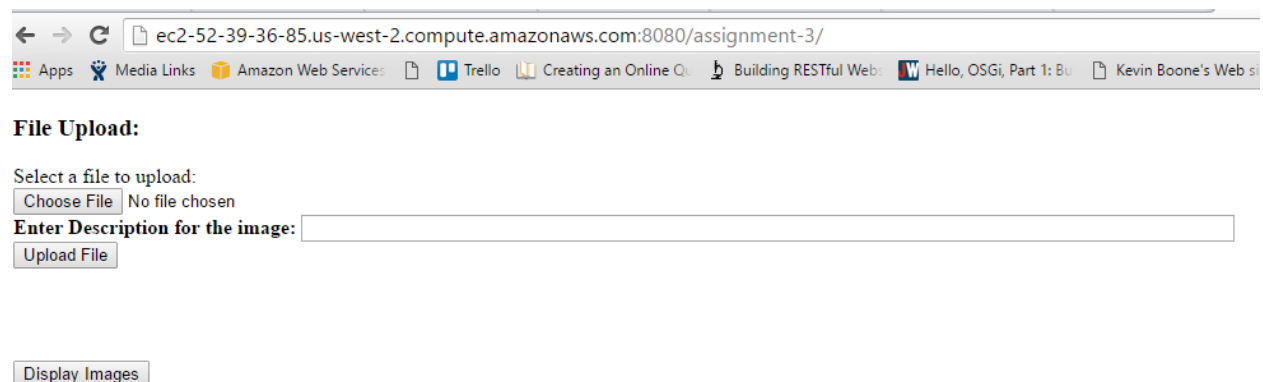


Figure 2: Index page

Display Page

Following is the page to show the saved images with their corresponding descriptions.

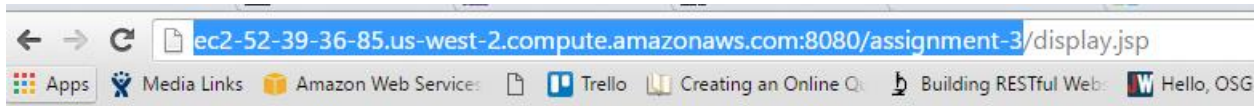


Image Name : 4.JPG

Image Description: She is having fun.. my cute little niece



Image Name : HeyamB.JPG

Image Description: zama guluna pa ma grana da

Figure 3: Display Page

Code

Index.html

```
<!DOCTYPE html>
<html>
<head>
<title>File Uploading Form</title>
</head>
<body>
    <h3>File Upload:</h3>
    Select a file to upload:
    <br />
    <form action="UploadFile.jsp" method="post" enctype="multipart/form-data">
        <input type="file" name="file" /> <br /> <label for="description">
<b>Enter Description for the image:</b>
        </label> <input id="description" size="100" name="description"
type="text"></input> <br /> <input type="submit" value="Upload File" />

    </form>
    <br></br>
    <br></br>
    <form action="display.jsp" method="post">
        <input type="submit" value="Display Images" />
    </form>
</body>
</html>
```

UploadFile.jsp

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ page import="java.io.*,java.util.*, javax.servlet.*"%>
<%@ page import="javax.servlet.http.*"%>
<%@ page import="org.apache.commons.fileupload.*"%>
<%@ page import="org.apache.commons.fileupload.disk.*"%>
<%@ page import="org.apache.commons.fileupload.servlet.*"%>
<%@ page import="org.apache.commons.io.output.*"%>
<%@ page import="com.amazonaws.auth.AWSCredentials"%>
<%@ page import="com.amazonaws.auth.BasicAWSCredentials"%>
<%@ page import="com.amazonaws.services.s3.AmazonS3"%>
<%@ page import="com.amazonaws.services.s3.AmazonS3Client"%>
<%@ page import="com.amazonaws.services.s3.model.ObjectMetadata"%>
<%@ page import="com.amazonaws.services.s3.model.PutObjectRequest"%>
<%@ page import="java.sql.Connection"%>
```

```
<%@ page import="java.sql.DriverManager"%>
<%@ page import="java.sql.SQLException"%>
<%@ page import="java.sql.Statement"%>
<%@ page import="java.sql.ResultSet"%>
<%@ page import="java.sql.PreparedStatement"%>

<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

<%
String contentType = request.getContentType();
String imageName = "";
String desc = "";

if ((contentType.indexOf("multipart/form-data") >= 0)) {

    DiskFileItemFactory factory = new DiskFileItemFactory();
    ServletFileUpload uploadHandler = new ServletFileUpload(factory);
    uploadHandler.setSizeMax(1024 * 1024 * 1); //1MB

    List<FileItem> fileItems = uploadHandler.parseRequest(request);
    Iterator<FileItem> iterator = fileItems.iterator();

    try {
        BasicAWSCredentials awsCredentials = new
BasicAWSCredentials("*****",
        "*****");
        AmazonS3 s3client = new AmazonS3Client(awsCredentials);

        while (iterator.hasNext()) {
            FileItem fileItem = (FileItem) iterator.next();

            if (fileItem.isFormField()) {

                String name =
fileItem.getFieldName();//description
                desc = fileItem.getString(); //value of
description

            }
            if (!fileItem.isFormField()) {
                String fileName = fileItem.getName();
                imageName = fileName;
                boolean isInMemory = fileItem.isInMemory();
                ObjectMetadata objectMetadata = new
ObjectMetadata();

                objectMetadata.setContentLength(fileItem.getSize());
                s3client.putObject(new
PutObjectRequest("mkhan9", fileName, fileItem.getInputStream(),
                objectMetadata));
```

```
        out.println("<h1>" + fileName + " uploaded"
</h1>");
    }
}
} catch (Exception e) {
    out.println(e);
}
}

Statement stmt = null;
Connection connection = null;
PreparedStatement prep = null;
ResultSet rs;

try {

    Class.forName("com.mysql.jdbc.Driver");
    //Creating a connection to the required database

    connection = DriverManager.getConnection(
        "jdbc:mysql://mkhan9.cxjfdlvd1yp1.us-west-
2.rds.amazonaws.com/photos", "mkhan9", "bluebird9");
    stmt = connection.createStatement();
    prep = connection
        .prepareStatement("insert into
photos.photoDetails(photo_name,photo_description) values(?,?)");
    prep.setString(1, imageName.trim());
    imageName = "";
    prep.setString(2, desc.trim());
    prep.executeUpdate();
    connection.close();

} catch (SQLException ex) {
    // handle any errors
    out.println("SQLException: " + ex.getMessage());
    out.println("SQLState: " + ex.getSQLState());
    out.println("VendorError: " + ex.getErrorCode());
}
//After the entire execution this block will execute and the connection
with database gets closed

finally {

    try {
        connection.close();
    } catch (Exception e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }

}

%>

<h3>
    <a href="index.html"> Back to home page</a>
</h3>
```

```
</body>
</html>
```

Display.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ page import="com.amazonaws.auth.AWSCredentials"%>
<%@ page import="com.amazonaws.auth.BasicAWSCredentials"%>
<%@ page import="com.amazonaws.util.StringUtils"%>
<%@ page import="com.amazonaws.services.s3.AmazonS3"%>
<%@ page import="com.amazonaws.services.s3.AmazonS3Client"%>
<%@ page import="com.amazonaws.services.s3.model.ObjectListing"%>
<%@ page import="com.amazonaws.services.s3.model.S3ObjectSummary"%>
<%@ page import="java.sql.Connection"%>
<%@ page import="java.sql.DriverManager"%>
<%@ page import="java.sql.SQLException"%>
<%@ page import="java.sql.Statement"%>
<%@ page import="java.sql.ResultSet"%>
<%@ page import="java.sql.PreparedStatement"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

    <%
        String imageName = "";
        BasicAWSCredentials awsCredentials =
        BasicAWSCredentials("*****",
            "*****");
        AmazonS3 s3client = new AmazonS3Client(awsCredentials);
        ObjectListing objects = s3client.listObjects("mkhan9");
        do {
            for (S3ObjectSummary objectSummary : objects.getObjectSummaries())
            {
                imageName = objectSummary.getKey().trim();
                out.println("<img src=https://s3-ap-southeast-
2.amazonaws.com/mkhan9/" + objectSummary.getKey()
                    + " /> <p> <b>Image Name :</b> " + imageName +
" <br />");

                Statement stmt = null;
                Connection connection = null;
                PreparedStatement prep = null;

                try {

                    Class.forName("com.mysql.jdbc.Driver");
                    //Creating a connection to the required database
```

```
        connection = DriverManager.getConnection(
            "jdbc:mysql://mkhan9.cxjfdlvdlypl.us-
west-2.rds.amazonaws.com/photos", "mkhan9",
            "bluebird9");
        stmt = connection.createStatement();
        String sqlQuery = "select photo_description from
photos.photoDetails where photo_name = ?";
        prep = connection.prepareStatement(sqlQuery);
        prep.setString(1, imageName.trim());
        ResultSet rs = prep.executeQuery();
        while (rs.next()) {
            String imgDes =
rs.getString("photo_description");
            out.println("<br/><p><b>Image Description: </b>"
+ imgDes + "</p><br />");
        }
        rs.close();
        imageName = "";
        connection.close();

    } catch (SQLException ex) {
        // handle any errors
        out.println("SQLException: " + ex.getMessage());
        out.println("SQLState: " + ex.getSQLState());
        out.println("VendorError: " + ex.getErrorCode());
    }
    //After the entire execution this block will execute and the
connection with database gets closed

    finally {

        try {
            connection.close();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

    }

    objects = s3client.listNextBatchOfObjects(objects);
} while (objects.isTruncated());
%>

<h3>
    <a href="index.html"> Back to home page</a>
</h3>

</body>
</html>
```


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