Image can not be inserted or retrieved directly using hibernate. For inserting or reading an image operation that image must be transfet to hibernate in the form of or as part of pojo class object.

The pojo class should have property of type BLOB.

To convert an image file into a java.sql.Blob object, we need to follow below steps:

1. Create a File object(java.io.File) for image file.
2. Find size of image file.
3. Create byte[] with size of the image.
4. Create java.io.FileInputStream object for an image file.
5. Read binary data of image file and store in a byte[].
6. Create a Blob for byte[].
7. Finally set blob object to pojo class object.

The following are steps to required an image:

1. Read a pojo class object from database table using hibernate.
2. Read java.sql.Blob object from pojo object.
3. Read binary data from Blob object.
4. Create a FileOutputStream object for writing or creating a new image file.
5. Read binary data from inputStream Object and write it into new image file.

Example:-

**Domain class:Student.java**

**package** com.hib.domain;

**import** java.io.Serializable;

**import** java.sql.Blob;

**import** javax.persistence.Column;

**import** javax.persistence.Entity;

**import** javax.persistence.Id;

**import** javax.persistence.Table;

**import** org.hibernate.annotations.Filter;

**import** org.hibernate.annotations.FilterDef;

**import** org.hibernate.annotations.ParamDef;

@Entity

@Table(name="student")

**public** **class** Student **implements** Serializable{

@Id

@Column(name="sid")

**private** **int** sid;

@Column(name="sname")

**private** String sname;

@Column(name="photo")

**private** Blob photo;

**public** **int** getSid() {

**return** sid;

}

**public** **void** setSid(**int** sid) {

**this**.sid = sid;

}

**public** String getSname() {

**return** sname;

}

**public** **void** setSname(String sname) {

**this**.sname = sname;

}

**public** Blob getPhoto() {

**return** photo;

}

**public** **void** setPhoto(Blob photo) {

**this**.photo = photo;

}

}

**HibernateConfigurationFile: hibernate.cfg.xml**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<!DOCTYPE hibernate-configuration PUBLIC

"-//Hibernate/Hibernate Configuration DTD 3.0//EN"

"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>

<session-factory>

<property name=*"hibernate.connection.driver\_class"*>oracle.jdbc.OracleDriver</property>

<property name=*"hibernate.connection.url"*>jdbc:oracle:thin:@localhost:1521:xe</property>

<property name=*"hibernate.connection.username"*>system</property>

<property name=*"hibernate.connection.password"*>tiger</property>

<property name=*"hibernate.dialect"*>org.hibernate.dialect.Oracle10gDialect</property>

<mapping class=*"com.hib.domain.Student"*/>

</session-factory>

</hibernate-configuration>

**ClientApplication:Test.java**

**package** com.hib.domain;

**import** java.io.File;

**import** java.io.FileInputStream;

**import** java.io.FileNotFoundException;

**import** java.io.FileOutputStream;

**import** java.io.InputStream;

**import** java.sql.Blob;

**import** java.sql.SQLException;

**import** org.hibernate.Hibernate;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Transaction;

**import** org.hibernate.cfg.Configuration;

**import** org.hibernate.classic.Session;

**public** **class** Test {

**public** **static** **void** main(String[] args)**throws** SQLException,FileNotFoundException {

**try** {

Configuration cfg=**new** Configuration();

cfg.configure("com/hib/domain/hibernate.cfg.xml");

SessionFactory sf=cfg.buildSessionFactory();

Session s=sf.openSession();

// ===================Logic for storing image into file.================

File f=**new** File("D;\\suma.JPG");

**int** length=(**int**)f.length();

**byte** []b=**new** **byte**[length];

FileInputStream fi=**new** FileInputStream(f);

fi.read(b);

Student s1=**new** Student();

s1.setSid(1);

s1.setSname("suma");

s1.setPhoto(Hibernate.~~createBlob~~(b));

Transaction t=s.beginTransaction();

**int** pk=(Integer)s.save(s1);

**if**(pk==1) {

System.***out***.println("Record Inserted");

}

**else**

{

System.***out***.println("Record not inserted");

}

t.commit();

// ===================Logic for Reading image into file.================

Student s2=**new** Student();

s2=(Student)s.load(Student.**class**,1);

Blob img1=s2.getPhoto();

InputStream is=img1.getBinaryStream();

FileOutputStream fo=**new** FileOutputStream("D:\\rock.jpg");

**byte** x[]=**new** **byte**[length];

is.read(b);

fo.write(b);

System.***out***.println("Photo created");

}

**catch**(Exception e) {

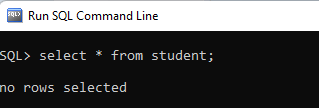
e.printStackTrace();

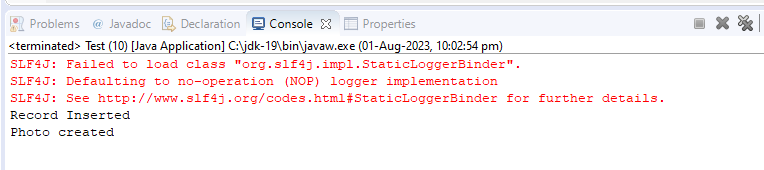
}

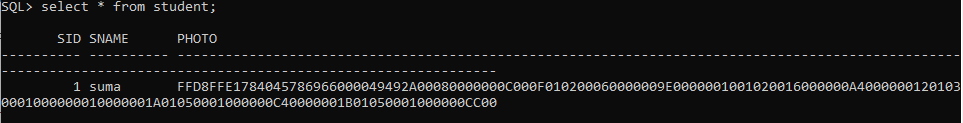
}

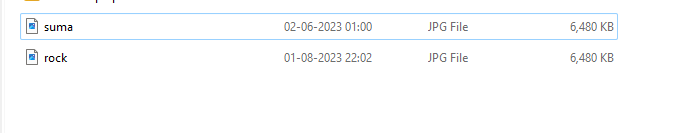
}

**Output:**

****

****

****

****