

How to Create Hibernate Project?

1- Create a netbeans JAVA project.

2- Add Library "Hibernate JPA "

3- Right click project > Create new Hibernate Config > Hibernate.cfg

Write Connection parameters then test your Connection.

Connection Properties, Then create "Hibernate...cfg"

This hibernate configuration file location usually located at the root directory.

For example

" **javaLibsrcHibernate.cfg**"

4- We need to create .Class for the Fields of the database.Table.

There are 2 options

First : is set the fields by XML file

Second : is set the fields properties inside of java file.
Which method name is **Annotation**

Example .java Class for the Fields

```
package hibernate;
```

```

import java.io.Serializable;
import javax.persistence.Column;
import javax.persistence.Table;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.UniqueConstraint;
@Entity
@Table(name="tmp_hibernate",uniqueConstraints={@UniqueConstraint(columnNames={"id"})})
public class customer implements Serializable {

    @Id
    @GeneratedValue(strategy=GenerationType.IDENTITY)
    @Column(name="id", nullable=false, unique=true, length=11)
    private Integer id;
    @Column(name="bayi_kodu", length=20, nullable=true)
    private int bayi_kodu;
    @Column(name="email", length=20, nullable=true)
    private String email;
    @Column(name="uname", length=20, nullable=true)
    private String username;

    public int getid() {
        return this.id;
    }
    public void setid(int id) {
        this.id = id;
    }
}

```

With this annotation file we need to set location of this file as a mapping inside of Hibernate |Config .

Package name is **hibernate**

Class name is **customer**

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

```
org.hibernate.dialect.MySQLDialect
com.mysql.jdbc.Driver
jdbc:mysql://xxxxxx:3306/DatabaseNAME?zeroDateTimeBehavior=con
vertToNull
USERNAME
PASSWORD
thread
```

If you are not using annotation method, you need to define Field types inside of .xml file then you need to give xml path to Hibernate.cfg file

BuildSessionFactory

Example Util.java for hibernate

```
package hibernate;

import java.util.Properties;
import org.hibernate.SessionFactory;
import
org.hibernate.boot.registry.StandardServiceRegistryBuilder;
import org.hibernate.cfg.Configuration;
import org.hibernate.service.ServiceRegistry;

public class util {

    private static SessionFactory sessionFactory =
buildSessionFactory();

    /**
     * @return
     */

    private static SessionFactory
buildSessionAnnotationFactory() {
    try {
```

```

        // Create the SessionFactory from
hibernate.cfg.xml
        Configuration configuration = new Configuration();
        configuration.configure("hibernate.cfg.xml");
        System.out.println("Hibernate Annotation
Configuration loaded");

        ServiceRegistry serviceRegistry = new
StandardServiceRegistryBuilder().applySettings(configuration.g
etProperties()).build();
        System.out.println("Hibernate Annotation
serviceRegistry created");

        SessionFactory sessionFactory =
configuration.buildSessionFactory(serviceRegistry);

        return sessionFactory;
    } catch (Throwable ex) {
        // Make sure you log the exception, as it might be
swallowed
        System.err.println("Initial SessionFactory
creation failed." + ex);
        throw new ExceptionInInitializerError(ex);
    }
}

private static SessionFactory sessionAnnotationFactory;
public static SessionFactory getSessionAnnotationFactory()
{
    if(sessionAnnotationFactory == null)
sessionAnnotationFactory = buildSessionAnnotationFactory();
    return sessionAnnotationFactory;
}
public static void shutdown() {
    // Close caches and connection pools
    sessionFactory.close();
}
public static SessionFactory getSessionFactory() {
    if(sessionFactory == null) sessionFactory =
buildSessionFactory();
    return sessionFactory;
}

```

```
}  
  
}
```

5- Testing,

```
import hibernate.customer;  
import hibernate.util;  
import org.hibernate.Session;  
import net.sf.ehcache.hibernate.HibernateUtil;  
import org.hibernate.SessionFactory;  
  
hibernate.customer Member_YENI = new customer();  
Member_YENI.setbayi_kodu(14);  
Member_YENI.setemail("coder@gmail.com");  
Member_YENI.setUsername("kutayzorlu");  
  
SessionFactory sessionFactory =  
hibernate.util.getSessionAnnotationFactory();  
  
Session session = sessionFactory.getCurrentSession();  
session.beginTransaction();  
session.save(Member_YENI);  
session.getTransaction().commit();  
  
// This is Static defined inside of utility  
util.shutdown();
```

6- Hibernate Log

```
debug:  
Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-  
persistenceantlr-2.7.6.jar" provided.  
Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-  
persistenceasm.jar" provided.  
Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-  
persistenceasm-attrs.jar" provided.  
Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-  
persistencecglib-2.1.3.jar" provided.
```

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencecommons-collections-2.1.1.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistenceorg-apache-commons-logging.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencedom4j-1.6.1.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistenceehcache-1.2.3.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencejdbc2_0-stdext.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencejta.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencehibernate3.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencehibernate-tools.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencehibernate-annotations.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencehibernate-commons-annotations.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencehibernate-entitymanager.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencejavassist.jar" provided.

Non-existing path "C:\Users\Deutsch\Desktop\javakLib\hibernate-persistenceeejb3-persistence.jar" provided.

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistenceantlr-2.7.6.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistenceasm.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistenceasm-attrs.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencecglib-2.1.3.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencecommons-collections-2.1.1.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistenceorg-apache-commons-logging.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencedom4j-1.6.1.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-

persistenceehcache-1.2.3.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencejdbc2_0-stdext.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencejta.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencehibernate3.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencehibernate-tools.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencehibernate-annotations.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencehibernate-commons-annotations.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencehibernate-entitymanager.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistencejavassist.jar

Have no file for C:\Users\Deutsch\Desktop\javakLib\hibernate-persistenceejb3-persistence.jar

started 0:6:8

May 22, 2015 12:06:09 AM
org.hibernate.annotations.common.reflection.java.JavaReflectionManager

INFO: HCANN000001: Hibernate Commons Annotations {4.0.4.Final}

May 22, 2015 12:06:09 AM org.hibernate.Version logVersion

INFO: HHH000412: Hibernate Core {4.3.1.Final}

May 22, 2015 12:06:09 AM org.hibernate.cfg.Environment

INFO: HHH000206: hibernate.properties not found

May 22, 2015 12:06:09 AM org.hibernate.cfg.Environment
buildBytecodeProvider

INFO: HHH000021: Bytecode provider name : javassist

May 22, 2015 12:06:09 AM org.hibernate.cfg.Configuration
configure

INFO: HHH000043: Configuring from resource: hibernate.cfg.xml

May 22, 2015 12:06:09 AM org.hibernate.cfg.Configuration
getConfigurationInputStream

INFO: HHH000040: Configuration resource: hibernate.cfg.xml

May 22, 2015 12:06:09 AM
org.hibernate.internal.util.xml.DTDEntityResolver
resolveEntity

WARN: HHH000223: Recognized obsolete hibernate namespace

<http://hibernate.sourceforge.net/>. Use namespace <http://www.hibernate.org/dtd/> instead. Refer to Hibernate 3.6 Migration Guide!

Hibernate Configuration loaded

May 22, 2015 12:06:09 AM org.hibernate.cfg.Configuration doConfigure

INFO: HHH000041: Configured SessionFactory: null

Hibernate serviceRegistry created

May 22, 2015 12:06:09 AM

org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl configure

WARN: HHH000402: Using Hibernate built-in connection pool (not for production use!)

May 22, 2015 12:06:09 AM

org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator

INFO: HHH000401: using driver [com.mysql.jdbc.Driver] at URL [jdbc:mysql://:3306/k?zeroDateTimeBehavior=convertToNull]

May 22, 2015 12:06:09 AM

org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator

INFO: HHH000046: Connection properties: {user=*****, password=****}

May 22, 2015 12:06:09 AM

org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator

INFO: HHH000006: Autocommit mode: false

May 22, 2015 12:06:09 AM

org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl configure

INFO: HHH000115: Hibernate connection pool size: 20 (min=1)

May 22, 2015 12:06:10 AM org.hibernate.dialect.Dialect

INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect

May 22, 2015 12:06:10 AM

org.hibernate.engine.transaction.internal.TransactionFactoryInitiator initiateService

INFO: HHH000399: Using default transaction strategy (direct JDBC transactions)

May 22, 2015 12:06:10 AM

org.hibernate.hql.internal.ast.ASTQueryTranslatorFactory

INFO: HHH000397: Using ASTQueryTranslatorFactory
May 22, 2015 12:06:11 AM org.hibernate.cfg.Configuration
configure
INFO: HHH000043: Configuring from resource: hibernate.cfg.xml
May 22, 2015 12:06:11 AM org.hibernate.cfg.Configuration
getConfigurationInputStream
INFO: HHH000040: Configuration resource: hibernate.cfg.xml
May 22, 2015 12:06:11 AM
org.hibernate.internal.util.xml.DTDEntityResolver
resolveEntity
WARN: HHH000223: Recognized obsolete hibernate namespace
http://hibernate.sourceforge.net/. Use namespace
http://www.hibernate.org/dtd/ instead. Refer to Hibernate 3.6
Migration Guide!
Hibernate Annotation Configuration loaded
May 22, 2015 12:06:11 AM org.hibernate.cfg.Configuration
doConfigure
INFO: HHH000041: Configured SessionFactory: null
Hibernate Annotation serviceRegistry created
May 22, 2015 12:06:11 AM
org.hibernate.engine.jdbc.connections.internal.DriverManagerCo
nnectionProviderImpl configure
WARN: HHH000402: Using Hibernate built-in connection pool (not
for production use!)
May 22, 2015 12:06:11 AM
org.hibernate.engine.jdbc.connections.internal.DriverManagerCo
nnectionProviderImpl buildCreator
INFO: HHH000401: using driver [com.mysql.jdbc.Driver] at URL
May 22, 2015 12:06:11 AM
org.hibernate.engine.jdbc.connections.internal.DriverManagerCo
nnectionProviderImpl buildCreator
May 22, 2015 12:06:11 AM
org.hibernate.engine.jdbc.connections.internal.DriverManagerCo
nnectionProviderImpl buildCreator
INFO: HHH000006: Autocommit mode: false
May 22, 2015 12:06:11 AM
org.hibernate.engine.jdbc.connections.internal.DriverManagerCo
nnectionProviderImpl configure
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
May 22, 2015 12:06:12 AM org.hibernate.dialect.Dialect
INFO: HHH000400: Using dialect:

```
org.hibernate.dialect.MySQLDialect
May      22,      2015      12:06:12      AM
org.hibernate.engine.transaction.internal.TransactionFactoryIn
itiator initiateService
INFO: HHH000399: Using default transaction strategy (direct
JDBC transactions)
May      22,      2015      12:06:12      AM
org.hibernate.hql.internal.ast.ASTQueryTranslatorFactory
INFO: HHH000397: Using ASTQueryTranslatorFactory
Ended0:6:41
```

7- Performance

Totally token 30 seconds, First initialization. But after 30 seconds, every update insert delete taking lower than 1 second.