An important Note for Hibernate 5 Users

All the jar files required for the entire course for Hibernate 4.3.5 and 5.0.4 versions could be download from Lecture 10

Dear Students.

Although I would recommend you to use Hibernate 4.3.5. Final version for the duration of the course, as that was the version used by me while designing the course, you might still want to use the Hibernate 5 version and you're welcome to do that, but you're going to have to make the following two changes to the downloaded source code (each lab exercise comes with its downloadable source code) to get your code working properly, otherwise you might get the strange Exception in thread "main" org.hibernate.MappingException: Unknown entity: entity. Message exception:

1. Use the GenerationType. IDENTITY strategy in your entities for auto id generation. As shown in the following Message entity, for

```
package entity;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;
@Entity
@Table(name="message")
public class Message {
   @GeneratedValue(strategy=GenerationType.IDENTITY)
   @Column(name="ID")
   private Long id;
   @Column(name="TEXT")
   private String text;
   public Message() {}
   public Message(String text) { this.text = text; }
   @Override
   public String toString() { return "Message [id=" + id + ", text=" + text + "]";}
```

2. Build StandardServiceRegistry and Metadata to build the SessionFactory from them in HibernateUtil class, as shown below:

```
package util;
import org.hibernate.SessionFactory;
import org.hibernate.boot.Metadata;
import org.hibernate.boot.MetadataSources;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
public class HibernateUtil {
  private static final SessionFactory sessionFactory = buildSessionFactory();
  private static SessionFactory buildSessionFactory() {
     try {
       // Create the SessionFactory from hibernate.cfg.xml
       StandardServiceRegistry serviceRegistry = new StandardServiceRegistryBuilder().configure("hibernate.cfg.xml").build();
       Metadata metadata = new MetadataSources(serviceRegistry).getMetadataBuilder().build();
       return metadata.getSessionFactoryBuilder().build();
     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);
  public static SessionFactory getSessionFactory() {
     return sessionFactory;
```

So if you're going to use Hibernate 4.3.5. Final version, you don't have to make the above (1st and 2nd) changes to the downloaded source code.

Once you complete the course, you could always test your code using Hibernate 5 version and get back to me in case you happen to face any issues².

Best,

Deshraj

¹GenerationType.IDENTITY was discussed at https://www.udemy.com/hibernate-and-jpa-fundamentals/learn/v4/questions/937412 in the

²All the required jar files for the Hibernate 5.0.4 version for the entire course could be downloaded from Lecture 10