

Avdesh - JPATest/pom.xml - Eclipse IDE

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Package Explorer

> Array
> HibernateExample
✓ JPATest [JPATest master]
 > src/main/java
 > src/main/resources
 > src/test/java
 > src/test/resources
> JRE System Library [JavaSE-1.8]
✓ Maven Dependencies
 > antlr-2.7.7.jar - C:\Users\avdes\...
 > byte-buddy-1.10.22.jar - C:\User...
 > classmate-1.5.1.jar - C:\Users\av...
 > dom4j-2.1.3.jar - C:\Users\avdes...
 > FastInfoset-1.2.15.jar - C:\Users\...
 > hibernate-commons-annotation...
 > hibernate-core-5.4.32.Final.jar - ...
 > istack-commons-runtime-3.0.7.j...
 > jandex-2.2.3.Final.jar - C:\Users\...
 > javassist-3.27.0-GA.jar - C:\Users...
 > javax.activation-api-1.2.0.jar - C:...
 > javax.persistence-api-2.2.jar - C:...
 > jaxb-api-2.3.1.jar - C:\Users\avde...
 > jaxb-runtime-2.3.1.jar - C:\Users\...
 > jboss-logging-3.4.1.Final.jar - C:...
 > jboss-transaction-api_1.2_spec-1...
 > mysql-connector-j-8.0.32.jar - C:...
 > protobuf-java-3.21.9.jar - C:\Use...
 > stax-ex-1.8.jar - C:\Users\avdes\...

JPATest/pom.xml

Employee.java

persistence.xml

Tester.java

RestOperations.java

```
https://maven.apache.org/xsd/maven-4.0.0.xsd (xsi:schemaLocation)
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://m
2   <modelVersion>4.0.0</modelVersion>
3   <groupId>JPATest</groupId>
4   <artifactId>JPATest</artifactId>
5   <version>0.0.1-SNAPSHOT</version>
6
7   <dependencies>
8     <!-- MySQL Connector Dependency -->
9     <dependency>
10       <groupId>com.mysql</groupId>
11       <artifactId>mysql-connector-j</artifactId>
12       <version>8.0.32</version>
13     </dependency>
14
15     <!-- Hibernate Core Dependency -->
16     <dependency>
17       <groupId>org.hibernate</groupId>
18       <artifactId>hibernate-core</artifactId>
19       <version>5.4.32.Final</version>
20     </dependency>
21
22   </dependencies>
23 </project>
```

Avdesh - JPATest/src/main/java/Employee.java - Eclipse IDE

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 - > protobuf-java-3.21.9.jar - C:\Use...
 - > stax-ex-1.8.jar - C:\Users\avdes\...
 - > ...

```
1 import javax.persistence.Entity;
2 import javax.persistence.GeneratedValue;
3 import javax.persistence.GenerationType;
4 import javax.persistence.Id;
5 import javax.persistence.Table;
6
7
8 @Entity
9 @Table(name="employee")
10 public class Employee {
11     @Id
12     @GeneratedValue(strategy=GenerationType.IDENTITY);
13     int id;
14
15     |
16     String name;
17
18     public int getId() {
19         return id;
20     }
21     public void setId(int id) {
22         this.id = id;
23     }
24     public String getName() {
25         return name;
26     }
27     public void setName(String name) {
28         this.name = name;
29     }
30
31 }
32
```


Avdesh - JPATest/src/main/resources/META-INF/persistence.xml - Eclipse IDE

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 - > jaxb-runtime-2.3.1.jar - C:\Users\...
 - > jboss-logging-3.4.1.Final.jar - C:/...
 - > jboss-transaction-api_1.2_spec-1...
 - > mysql-connector-j-8.0.32.jar - C...

Bind to grammar/schema...

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <persistence version="2.1"
3     xmlns="http://xmlns.jcp.org/xml/ns/persistence"
4     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
5     xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/persistence
6         http://xmlns.jcp.org/xml/ns/persistence/persistence_2_1.xsd">
7
8     <persistence-unit name="emp">
9         <properties>
10             <property name="java.persistence.jdbc.url" value="jdbc:mysql://localhost:3306/mytestdb"/>
11             <property name="java.persistence.jdbc.user" value="root"/>
12             <property name="java.persistence.jdbc.password" value="root"/>
13             <property name="java.persistence.jdbc.driver_class" value="com.mysql.cj.jdbc"/>
14
15         </properties>
16
17     </persistence-unit>
18 </persistence>
```

Avdesh - JPATest/src/main/java/Tester.java - Eclipse IDE

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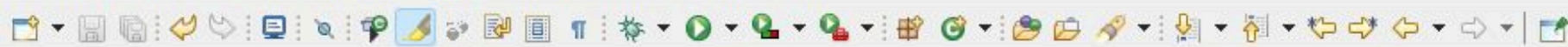
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 - > jaxb-runtime-2.3.1.jar - C:\Users\...
 - > jboss-logging-3.4.1.Final.jar - C:
 - > jboss-transaction-api_1.2_spec-1...
 - > ...

```
1 import javax.persistence.EntityManager;  
2 import javax.persistence.EntityManagerFactory;  
3 import javax.persistence.Persistence;  
4  
5 public class Tester {  
6     public static void main(String[] args) {  
7         EntityManagerFactory factory=Persistence.createEntityManagerFactory("emp");  
8         EntityManager entityManager=factory.createEntityManager();  
9         entityManager.getTransaction().begin();  
10        Employee employee=new Employee();  
11        employee.setName("FromJpa");  
12        entityManager.persist(employee);  
13        entityManager.getTransaction().commit();  
14        entityManager.close();  
15        factory.close();  
16  
17    }  
18  
19 }  
20  
21 }
```


Avdesh - JPATest/src/main/java/RestOperations.java - Eclipse IDE

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 - > jboss-transaction-api_1.2_spec-1
 - > mysql-connector-j-8.0.32.jar - C

JPATest/pom.xml Employee.java persistence.xml Tester.java RestOperations.java

```
1 import javax.persistence.EntityManager;
2 import javax.persistence.EntityManagerFactory;
3 import javax.persistence.Persistence;
4
5 public class RestOperations {
6
7     public static void main(String[] args) {
8         EntityManagerFactory factory=Persistence.createEntityManagerFactory("emp");
9         EntityManager entityManager=factory.createEntityManager();
10        entityManager.getTransaction().begin();
11        Employee employee=entityManager.find(Employee.class,14);
12        employee.setName("FromJPAUpdate");
13        entityManager.persist(employee);
14        entityManager.getTransaction().commit();
15        entityManager.close();
16        factory.close();
17        //System.out.println(employee.getName());
18    }
19
20 }
21
```