

Hola mundo con jpa en java ee

Se utilizo la clase persona con la única diferencia de que ahora será tomado como una entidad:

```
@Entity
public class Persona implements Serializable{

    private static final long serialVersionUID = 1L;

    @Id
    @GeneratedValue(strategy=GenerationType.IDENTITY)
    @Column(name="id_persona")
```

LOG4J2

```
<?xml version="1.0" encoding="UTF-8"?>
<Configuration status="INFO">
    <Appenders>
        <Console name="Console" target="SYSTEM_OUT">
            <PatternLayout pattern="%d{HH:mm:ss} [%t] %-5level %logger(36) - %msg%n" />
        </Console>
    </Appenders>
    <Loggers>
        <Root level="debug">
            <AppenderRef ref="Console" />
        </Root>
    </Loggers>
</Configuration>
```

Persistence.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<persistence xmlns="http://xmlns.jcp.org/xml/ns/persistence"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/persistence
        http://xmlns.jcp.org/xml/ns/persistence/persistence_2_2.xsd" version="2.2">
    <persistence-unit name="PersonasPU" transaction-type="RESOURCE_LOCAL">
        <class>sv.com.gm.sga.domain.Persona</class>
        <properties>
            <property name="javax.persistence.jdbc.url" value="jdbc:mysql://localhost:3306/test?useSSL=false&useTimezone=true&serverTimezone=UTC" />
            <property name="javax.persistence.jdbc.user" value="root" />
            <property name="javax.persistence.jdbc.password" value="1234" />
            <property name="javax.persistence.jdbc.driver" value="com.mysql.cj.jdbc.MySQLDataSource" />
            <property name="eclipseLink.logging.level.sql" value="FINE" />
            <property name="eclipseLink.logging.parameters" value="true" />
        </properties>
    </persistence-unit>
</persistence>
```

Clienteentidadpersona

```

package test;

import javax.persistence.*;
import sv.com.gm.sga.domain.Persona;
import org.apache.logging.log4j.*;

public class ClienteEntidadPersona {
    static Logger log = LogManager.getRootLogger();
    public static void main(String[] args) {
        EntityManagerFactory emf = Persistence.createEntityManagerFactory("PersonaPU");
        EntityManager em = emf.createEntityManager();
        EntityTransaction tx = em.getTransaction();

        //Inicia la transaccion
        tx.begin();
        //No se debe especificar el ID de la base de datos
        Persona personal = new Persona(nombre: "Maria", apellido: "Gutierrez", email: "mgutierrez@mail.com", telefono: "88991199");
        log.debug("Objeto a persistir:" + personal);
        //Persistimos el objeto
        em.persist(entity: personal);
        //terminamos la transaccion
        tx.commit();
        log.debug("Objeto persistido" + personal);
        em.close();
    }
}

```

```

--- exec:3.1.0:exec (default-cli) @ holamund-jpa ---
[EL Info]: 2023-10-29 20:56:39.276--ServerSession(2028269136)--EclipseLink, version: Eclipse Persistence Services - 2.7.4.v20190115-ad5b7c6b2a
[EL Info]: connection: 2023-10-29 20:56:39.455--ServerSession(2028269136)--File:/C:/Users/Johan/Desktop/constiti 2023/JAVA EE/leccion 3/holamund-jpa/target/classes/_PersonaPU login
20:56:39 [main] DEBUG - Objeto a persistir:Persona(idPersona=0, nombre=Maria, apellido=Gutierrez, email=mgutierrez@mail.com, telefono=88991199)
[EL Fine]: sql: 2023-10-29 20:56:39.478--ClientSession(2108297149)--Connection(1112737073)--INSERT INTO PERSONA (APELLIDO, EMAIL, NOMBRE, TELEFONO) VALUES (?, ?, ?, ?)
bind => [4 parameters bound]
[EL Fine]: sql: 2023-10-29 20:56:39.492--ClientSession(2108297149)--Connection(1112737073)--SELECT LAST_INSERT_ID()
20:56:39 [main] DEBUG - Objeto persistidoPersona(idPersona=3, nombre=Maria, apellido=Gutierrez, email=mgutierrez@mail.com, telefono=88991199)
-----
BUILD SUCCESS
-----
Total time: 1.756 s
Finished at: 2023-10-29T20:56:39-06:00
-----

```