

Persistir un objeto (insert)

```
package sv.com.gm.sga.cliente.ciclovidajpa;

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

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

        Persona personal= new Persona(nombre: "Pedro",apellido:"Luna",email: "pedro@gmail.com",telefono: "13132153");
        tx.begin();
        em.persist(entity: personal);
        log.debug("Objeto persistido - sin commit: "+personal);
        tx.commit();
        log.debug("Objeto persiste - estado detached:"+personal);
        em.close();
    }
}
```

Persistence

```
<?xml version="1.0" encoding="UTF-8" ?>
<persistence version="2.2" xmlns="http://java.sun.com/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">
  <persistence-unit name="SgaPU" transaction-type="RESOURCE_LOCAL">
    <class>sv.com.gm.sga.domain.Usuario</class>
    <class>sv.com.gm.sga.domain.Persona</class>
    <properties>
      <property name="javax.persistence.jdbc.url" value="jdbc:mysql://localhost:3306/test?useSSL=false&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.Driver" />
      <property name="eclipselink.logging.level.sql" value="FINE" />
      <property name="eclipselink.logging.parameters" value="true" />
    </properties>
  </persistence-unit>
</persistence>
```

Recuperar objeto:

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

        Persona personal= new Persona();
        tx.begin();
        personal=em.find(entityClass: Persona.class, primaryKey: 5);
        tx.commit();
        log.debug("Objeto recuperado: "+personal);

        em.close();
    }
}
```

sv.com.gm.sga.cliente.ciclovidajpa.EncontrarObjetoJPA > main >

java DB Database Process X GlassFish Server 5.0 X SQL execution X Retriever Output X MySQL Server Commands X Run (EncontrarObjetoJPA) X

[EL Info]: connection: 2023-11-02 16:47:14.285--ServerSession(53940034)--/file:/C:/Users/Johan/Desktop/consatti/2023/JAVA EE/leccion 4/sv.com.gm.sga-jee-web_war/target/classes/_SgaPU login successful

[EL Fine]: sql: 2023-11-02 16:47:14.301--ServerSession(53940034)--Connection(1012552887)--SELECT id_persona, APELLIDO, EMAIL, NOMBRE, TELEFONO FROM PERSONA WHERE (id_persona = ?)

bind => [1 parameter bound]

16:47:14 [main] DEBUG - Objeto recuperado: Persona[idPersona=5, nombre=Pedro, apellido=Luna, email=pedro@gmail.com, telefono=13132153]

BUILD SUCCESS

Total time: 3.327 s
Finished at: 2023-11-02T16:47:14-06:00

Update objeto:

```
package sv.com.gm.sga.cliente.ciclovidajpa;

import javax.persistence.EntityManager;
import javax.persistence.EntityManagerFactory;
import javax.persistence.EntityTransaction;
import javax.persistence.Persistence;
import org.apache.logging.log4j.LogManager;
import org.apache.logging.log4j.Logger;
import sv.com.gm.sga.domain.Persona;






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

        Persona personal= new Persona();
        tx.begin();
        personal=em.find(entityClass:Persona.class, primaryKey: 5);

        personal.setApellido("cocolito");
        tx.commit();
        log.debug("Objeto recuperado: "+personal);

        em.close();
    }
}
```

1 • `SELECT * FROM test.persona;`

Result Grid					
Filter Rows: <input type="text"/>					
Edit:   					
Export/Import:  					
Wrap Cell Cor					
	id_persona	nombre	apellido	email	telefono
▶	1	Juan	Perez	jperez@mail.com	22577777
	2	Karla	Gomez	kgomez@mail.com	25252525
	3	Maria	Gutierrez	mgutierrez@mail.com	88991199
	4	Pedro	Luna	pedro@gmail.com	13132153
	5	Pedro	cocolito	pedro@gmail.com	13132153
✱	NULL	NULL	NULL	NULL	NULL

Eliminar objeto:




```
import javax.persistence.Persistence;
import org.apache.logging.log4j.LogManager;
import org.apache.logging.log4j.Logger;
import sv.com.gm.sga.domain.Persona;

/**
 *
 * @author Johan
 */
public class EliminarObjetoJpa {

    static Logger log = LogManager.getRootLogger();

    public static void main(String[] args) {
        EntityManagerFactory emf = Persistence.createEntityManagerFactory(persistenceUnitName: "SgaPU");
        EntityManager em = emf.createEntityManager();
        EntityTransaction tx = em.getTransaction();

        Persona personal = new Persona();
        tx.begin();
        personal = em.find(entityClass: Persona.class, primaryKey: 5);
        em.remove(entity: personal);
        tx.commit();
        em.close();
    }
}
```

Result Grid					
Filter Rows: <input type="text"/>					
Edit:    Export/Import					
	id_persona	nombre	apellido	email	telefono
▶	1	Juan	Perez	jperez@mail.com	22577777
	2	Karla	Gomez	kgomez@mail.com	25252525
	3	Maria	Gutierrez	mgutierrez@mail.com	88991199
	4	Pedro	Luna	pedro@gmail.com	13132153
✱	NULL	NULL	NULL	NULL	NULL