**Difference b/w JPA, Hibernate and Spring Data JPA**

JPA :

* It’s a concept and doesn’t have any concrete implementation of its specification.
* Hibernate is one of it’s implementation

Hibernate :

* It’s the implementation of the JPA concept
* It’s an ORM (Object Relation Manager) Tool which maps Objects to Entities in the database

Spring Data JPA :

* Reduces the boiler plate code of the JPA implementation but itself isn’t any implementation of it.
* Provides an Abstraction Layer over the JPA

**Hibernate sample code snippet :**

/\* Method to CREATE an employee in the database \*/

   public Integer addEmployee(Employee employee){

      Session session = factory.openSession();

      Transaction tx = null;

      Integer employeeID = null;

      try {

         tx = session.beginTransaction();

         employeeID = (Integer) session.save(employee);

         tx.commit();

      } catch (HibernateException e) {

         if (tx != null) tx.rollback();

         e.printStackTrace();

      } finally {

         session.close();

      }

      return employeeID;

   }

**Spring Data JPA sample code of the same :**

EmployeeRespository.java

public interface EmployeeRepository extends JpaRepository<Employee, Integer> {

}

EmployeeService.java

@Autowire

  private EmployeeRepository employeeRepository;

@Transactional

public void addEmployee(Employee employee) {

  employeeRepository.save(employee);

  }

**Both will perform the same result, difference will be just in it’s implementation, no of lines of code and easiness.**

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