## Spring Data Jpa @DataJpaTest

```
package integration.tests.databases;
import java.util.List;
import javax.validation.ConstraintViolationException;
import org.assertj.core.api.Assertions;
import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.Test;
import org.springframework.beans.factory.annotation.Autowired;
import
org.springframework.boot.test.autoconfigure.jdbc.AutoConfigureTestDatabase;
import
org.springframework.boot.test.autoconfigure.jdbc.AutoConfigureTestDatabase.
Replace;
import org.springframework.boot.test.autoconfigure.orm.jpa.DataJpaTest;
import org.springframework.test.context.jdbc.Sql;
import org.springframework.transaction.annotation.Propagation;
import org.springframework.transaction.annotation.Transactional;
import integration.tests.databases.product.Product;
import integration.tests.databases.product.ProductRepository;
@DataJpaTest
@AutoConfigureTestDatabase(replace = Replace.NONE)
class JPaIntegrationTest {
     @Autowired
    private ProductRepository productRepository;
     @AfterEach
    public void cleanUp() {
         productRepository.deleteAll();
    }
     @Test
     @Sql(statements = "insert into product (name, price) values('Mouse',15)")
    public void findByNameIgnoreCaseReturnAProduct() {
         Product product =
productRepository.findByNameIgnoreCase("mouse");
         Assertions.assertThat(product.getName()).isEqualTo("Mouse");
         Assertions.assertThat(product.getPrice()).isEqualTo(15);
    }
```

```
@Test
    @Transactional(propagation = Propagation.NOT_SUPPORTED)
    public void saveAProductWithNameNullThrowsAnException() {
         Product product = new Product("", 60);
         Assertions.assertThatThrownBy(()->{
              productRepository.save(product);
         }).isInstanceOf(ConstraintViolationException.class)
         .hasMessageContaining("Name is mandatory")
         .hasMessageContaining("Price must be lower than fifty");
    }
    @Test
    @Sql(statements = "insert into product (name,price)
values('Scanner',40)")
    @Sql(statements = "insert into product (name,price) values('Mouse',15)")
    public void
findAllProductsOrderedAscendentByPriceReturnAnOrderedListOfProducts() {
         List<Product> products =
productRepository.findAllOrderedByPriceAsc();
Assertions.assertThat(products).extracting(Product::getName).containsExactly
("Mouse", "Scanner");
}
```