Spring Jdbc @DataJdbcTest

```
Using product repository
package integration.tests.databasesidbc;
import java.util.List;
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.data.jdbc.DataJdbcTest;
import org.springframework.test.context.jdbc.Sql;
import integration.tests.databasesjdbc.product.Product;
import integration.tests.databasesjdbc.product.ProductRepository;
@DataJdbcTest
class JdbcIntegrationDataJdbcTest {
     @Autowired
    private ProductRepository productRepository;
     @AfterEach
    public void cleanUp() {
         productRepository.deleteAll();
    }
     @Test
     @Sql(statements = "insert into product (id, name,price)
values(1,'Mouse',15)")
    public void findByNameIgnoreCaseReturnProduct() {
         Product product =
productRepository.findByNameIgnoreCase("mouse");
         Assertions.assertThat(product.getName()).isEqualTo("Mouse");
         Assertions.assertThat(product.getPrice()).isEqualTo(15);
    }
     @Test
     @Sql(statements = "insert into product (id,name,price)
values(1,'Scanner',40)")
     @Sql(statements = "insert into product (id,name,price)
values(2,'Mouse',15)")
    public void returnProductsSortByPriceAscendent() {
         List<Product> products =
productRepository.findAllOrderedByPriceAsc();
```

```
Assertions.assertThat(products).extracting(Product::getName).containsExactly
("Mouse", "Scanner");
    }
}
Using idbc template
package integration.tests.databasesidbc;
import org.assertj.core.api.Assertions;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Test;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.autoconfigure.data.jdbc.DataJdbcTest;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.test.context.jdbc.Sql;
import integration.tests.databasesjdbc.product.Product;
import integration.tests.databasesjdbc.product.ProductDAO;
import integration.tests.databasesjdbc.product.ProductRowMapper;
@DataJdbcTest
class JdbTemplatecIntegrationDataJdbcTest {
    @Autowired
    private JdbcTemplate jdbcTemplate;
    private ProductDAO productDAO;
    @BeforeEach
    public void setup() {
         this.productDAO = new ProductDAO(jdbcTemplate);
    }
    @Test
    @Sql(statements = "insert into product (id, name,price)
values(1,'Mouse',15)")
    public void productShouldBeRemovedWhenDeletelsCalled() {
         productDAO.deleteById(1);
         Integer countAfterDelete = jdbcTemplate.queryForObject("SELECT
COUNT(*) FROM product", Integer.class);
         Assertions.assertThat(countAfterDelete).isEqualTo(0);
    }
```

```
@Test
    public void productShouldBeInsertedWhenSaveIsCalled() {
         Product product = productDAO.save(new Product("Webcam",5));
         Product insertedProduct = jdbcTemplate.queryForObject("SELECT id,
name, price FROM product WHERE id = ?",
                  new ProductRowMapper(), product.getId());
         Assertions.assertThat(insertedProduct).isEqualTo(product);
    }
    @Test
    @Sql(statements = "insert into product (id, name,price)
values(1,'Mouse',15)")
    public void findByIdReturnProduct() {
         Product product = productDAO.findById(1);
         Assertions.assertThat(product.getName()).isEqualTo("Mouse");
         Assertions.assertThat(product.getPrice()).isEqualTo(15);
    }
}
```