

# Spring Jdbc Template

```
package integration.tests.databasesjdbc;
```

```
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.context.SpringBootTest;
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;
```

```
@SpringBootTest
```

```
class JdbcTemplateIntegrationTest {
```

```
    @Autowired
```

```
    private JdbcTemplate jdbcTemplate;
```

```
    @Autowired
```

```
    private ProductDAO productDAO;
```

```
    @AfterEach
```

```
    public void cleanUp() {
        jdbcTemplate.execute("DELETE FROM product");
    }
```

```
    @Test
```

```
    @Sql(statements = "insert into product (id, name,price)
values(1,'Mouse',15)")
    public void productShouldBeRemovedWhenDeleteIsCalled() {
        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);
}

}

```