

Relational Databases with MySQL Week 6 Coding Assignment

Screenshots of Code

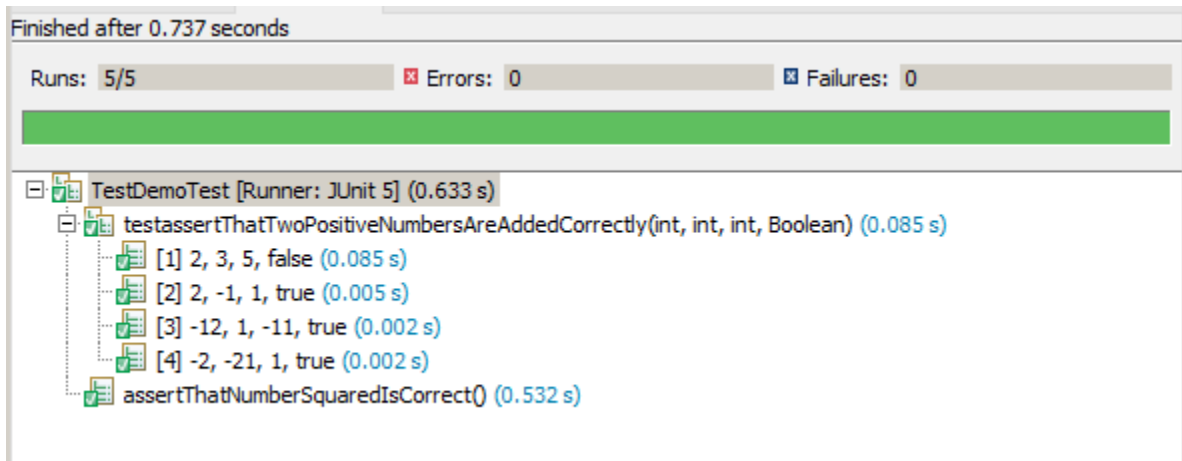
```
TestDemo.java TestDemoTest.java X
1 import static org.junit.jupiter.api.Assertions.*;
2 import static org.assertj.core.api.Assertions.*;
3
4 import org.junit.jupiter.api.Assertions;
5 import org.junit.jupiter.api.BeforeEach;
6 import org.junit.jupiter.api.Test;
7 import org.junit.jupiter.params.ParameterizedTest;
8 import org.junit.jupiter.params.provider.CsvSource;
9 import org.junit.jupiter.params.provider.MethodSource;
10 import org.mockito.Mockito;
11
12 import java.util.stream.Stream;
13 import org.junit.jupiter.params.provider.Arguments;
14 import static org.junit.jupiter.params.provider.Arguments.arguments;
15
16 import static org.mockito.Mockito.spy;
17 import static org.mockito.Mockito.doReturn;
18
19 class TestDemoTest {
20
21     private TestDemo testDemo;
22
23     @BeforeEach
24     void setUp() throws Exception {
25         testDemo = new TestDemo();
26     }
27
28     @ParameterizedTest
29     @MethodSource("TestDemoTest#argumentsForAddPositive")
30     void testassertThatTwoPositiveNumbersAreAddedCorrectly(int a, int b, int expected, Boolean expectException) {
31         if(!expectException) {
32             org.assertj.core.api.Assertions.assertThat(testDemo.addPositive(a, b)).isEqualTo(expected);
33         } else {
34             org.assertj.core.api.Assertions.assertThatThrownBy(()->{testDemo.addPositive(a, b);})
35                 .isInstanceOf(IllegalArgumentException.class);
36         }
37     }
38
39     public static Stream<Arguments> argumentsForAddPositive() {
40         return Stream.of(
41             Arguments.of(2,3,5,false),
42             Arguments.of(2,-1,1,true),
43             Arguments.of(-12,1,-11,true),
44             Arguments.of(-2,-21,1,true)
45         );
46     }
47
48
49     @Test
50     void assertThatNumberSquaredIsCorrect() {
51         TestDemo mockDemo = Mockito.spy(testDemo);
52         doReturn(5).when(mockDemo).getRandomInt();
53
54         int fiveSquared = mockDemo.randomNumberSquared();
55         org.assertj.core.api.Assertions.assertThat(fiveSquared).isEqualTo(25);
56     }
57
58 }
```

```

TestDemo.java × TestDemoTest.java
1 import java.util.Random;
2
3 public class TestDemo {
4
5     public int addPositive(int a, int b) {
6         if (a > 0 && b > 0) {
7             return (a+b);
8         } else throw new IllegalArgumentException("Both Parameters must be Positive ! ");
9     }
10
11     public int randomNumberSquared() {
12         int ran = 0;
13         ran = getRandomInt();
14         return (ran*ran);
15     }
16
17     int getRandomInt() {
18         Random random = new Random();
19         return random.nextInt(10)+1;
20     }
21 }
22

```

Screenshots of Running Application:



URL to GitHub Repository:

<https://github.com/david2joh/sqlWeek6.git>