Apex

(Exceptions, Debugging, and Testing)

Exercise Guide


salesforce

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Exercise 6-1: Creating a Test Class

Goal:

Create a test class to verify the `PositionAnnouncementTrigger` works correctly.

Scenario:

Per the requirements of Universal Containers, you have updated the `PositionAnnouncementTrigger`, but you realize that testing it via the Execute Anonymous tool is not a good long term solution. You will create a test class that will provide a long term solution and will meet the testing requirements of the Force.com platform.

Tasks:

1. Upload and complete the test class `PositionAnnouncementTriggerTestClass`.
2. Run the test class in the Force.com IDE.
3. Run the test class in Salesforce.

Time:

30 minutes

Instructions:

1. Upload and complete the test class `PositionAnnouncementTriggerTestClass`.
   A. In the Force.com IDE, right-click the project folder and select **New | Apex Class**.
      i. **Name:** `PositionAnnouncementTriggerTestClass`
      ii. **Template:** `Test Class`
      iii. Click **Finish**.
   B. Copy the code from the `6-1.PositionAnnouncementTriggerTestClass.txt` file in the `Exercises` folder, and complete the `TODO:` sections as required.
   C. Save the class.
2. Run the test class in the Force.com IDE.
   A. Right-click on `PositionAnnouncementTriggerTestClass` in the Package Explorer pane and choose **Force.com | Run Tests**.
   B. When complete, review the output in the Apex Code Test Runner tab on the bottom right of the Force.com IDE.

i. Expand the code coverage results node and locate the `PositionAnnouncmentTrigger`item and confirm test coverage is 100 percent.

ii. Notice that because the tests create positions, all the triggers associated with positions, as well as the classes they invoke, are being included in the description of code covered.

iii. Review the system log output to ensure you can identify the output from your debug statements.

Note: You may need to adjust the logging level to provide more details and run the test again.

3. Run the test class in Salesforce.

A. In Salesforce, go to **Setup | Develop | Apex Classes | PositionAnnouncementTriggerTestClass**.

B. Click **Run Test**. Note that the results describe the success and failure of each test method within the `PositionAnnouncementTriggerTestClass`.

Review:

1. The tests we created are useful for testing bulk changes, but are not fully exercising our logic. What would be some refinements that would make the tests more meaningful?

2. The class shell has `@isTest`before the class definition. Why? What happens to the test results if you take it out?

3. Under what circumstances would you make a test class public?

4. The code you executed in the `verifyPost`method to test your changes creates 20 positions. Do these positions now exist in your org? Is this the same behavior you observed when executing the code in the Execute Anonymous tool?