Module 3: Aggregate Tests

Exercise 3-1: Creating and Running Aggregate Tests

Scenario:

- In this lab, you create a basic table pair for the first time, as well as three simple aggregate tests.
- You run all of the tests, then examine, interpret, and discuss the test results

Goals:

- Correctly create a table pair
- Correctly create three different aggregate tests
- Successfully run the tests, and evaluate the test results

Duration: 15 minutes

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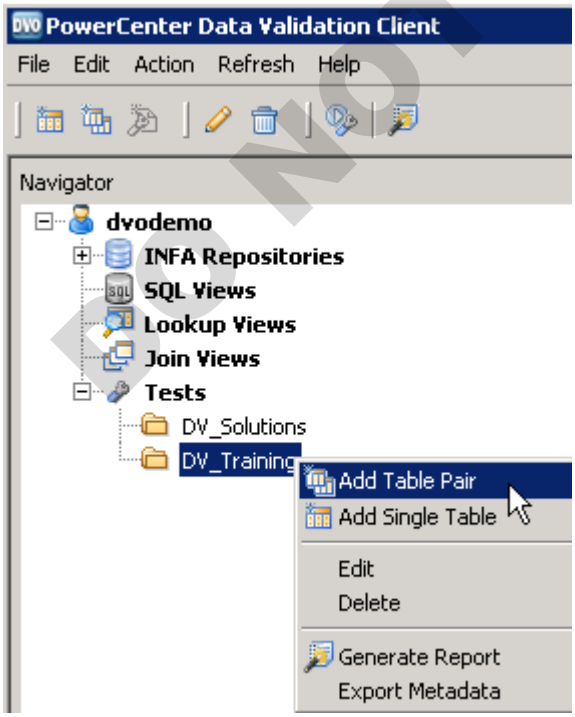
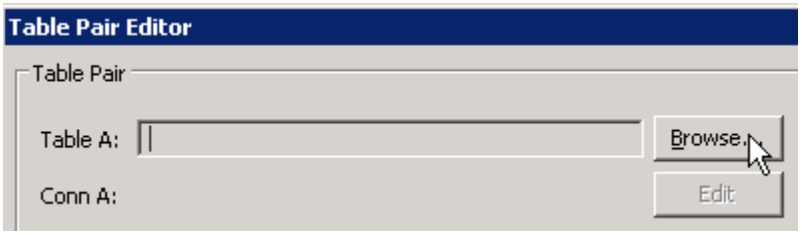
Instructions

Step 1. Create a table pair



1) In the Navigator, point to the Tests node, and then click the DV_Training folder.

2) Right-click and choose **Add Table Pair** from the menu.



3) In the Table Pair Editor, click **Browse** for Table A.

a) In the Select Data Source window, type the following to filter the list:
Search: tra

b) Select the SRCORDERS table.

c) Click **Select** to close the Select Data Source window.

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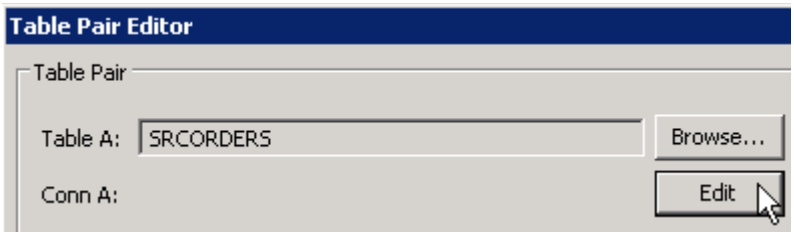
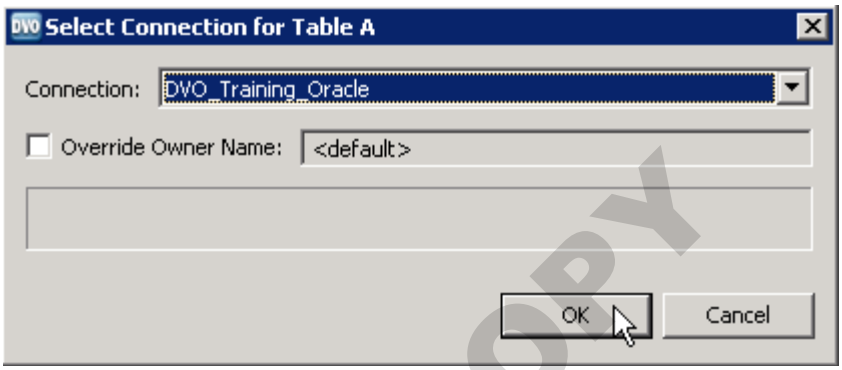


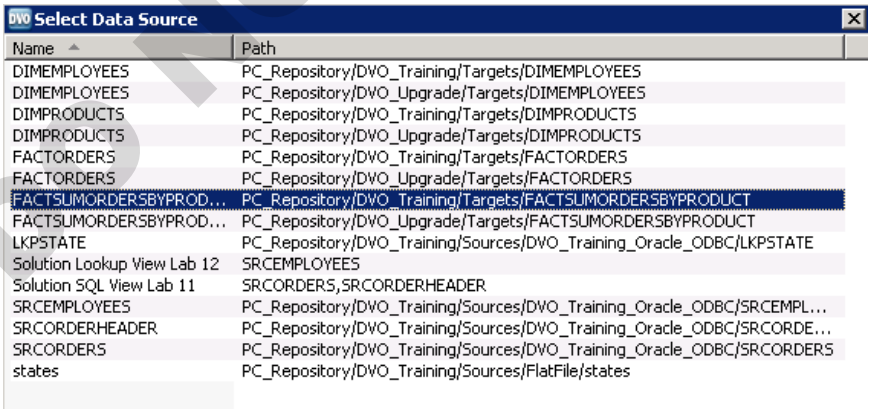
d) In the Conn A area, click **Edit**.



e) In the Select Connection for Table A window, select **DVO_Training_Oracle** as the PowerCenter connection.

f) Click **OK.**

g) In the Table B area, click **Browse.**



h) In the Select Data Source window, select **FACTSUMORDERSBYPRODUCT**. Be sure to choose the DVO_Training version.

i) Click **Select.**

j) In the Conn B area, click **Edit.**

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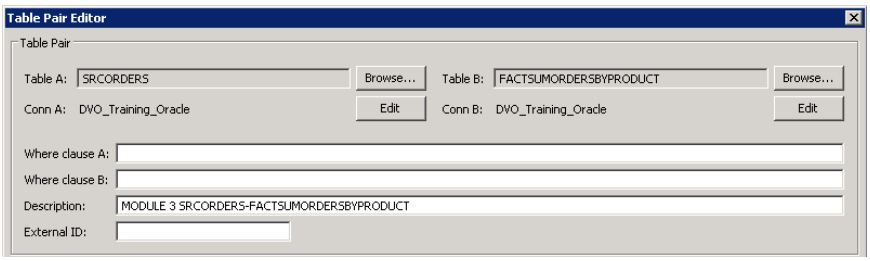
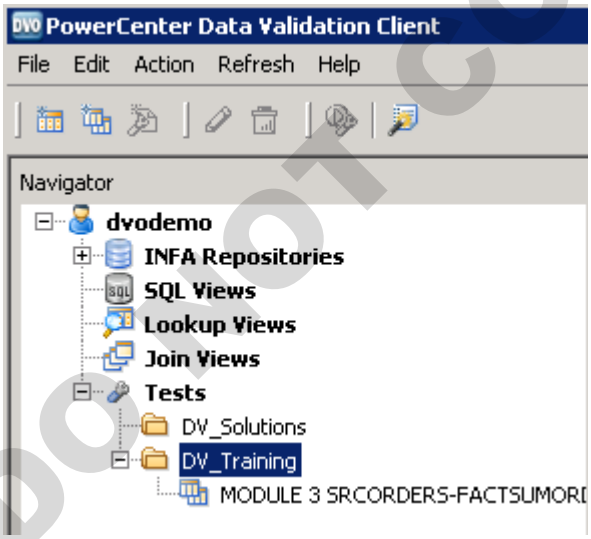
k) In the Select Connection for Table B window, select **DVO_Training_Oracle**.

l) Click **OK.**



Note: The Description text box is automatically populated with SRCORDERS-FACTSUMORDERSBYPRODUCT, which represents the names of Table A and Table B. Add "MODULE 3" to the beginning of the description.

m) Click **Save.**



Note: The MODULE 3 SRCORDERS-FACTSUMORDERSBYPRODUCT table pair is listed in the Navigator.

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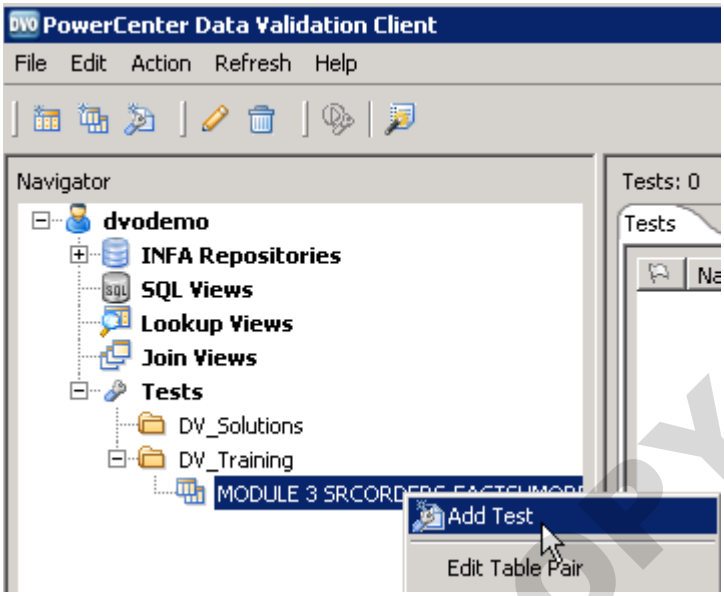
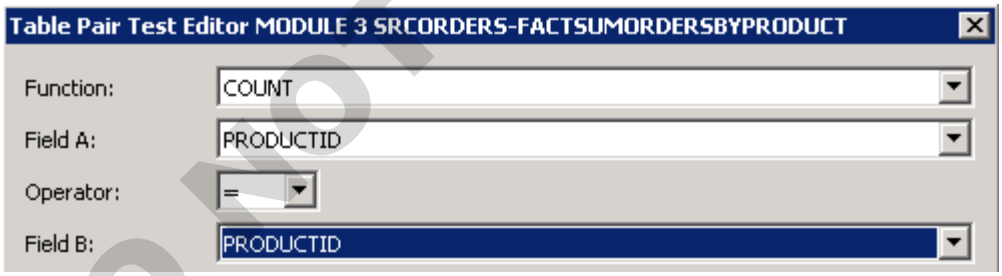
4) Create a COUNT test



5) In the Navigator, right-click on the MODULE 3 SRCORDERS-FACTSUMORDERSBYPRODUCT table pair, and select **Add Test**.



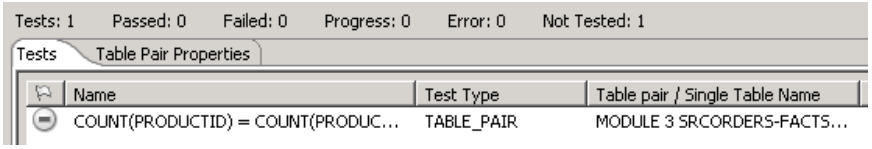
6) In the Table Pair Test Editor, select **COUNT** as the Function.

7) Select **PRODUCTID** for Field A.

8) Select the equal sign **(=)** for Operator.

9) Select **PRODUCTID** for Field B.

10) Click **Save.**



11) The test is listed in the Tests area.

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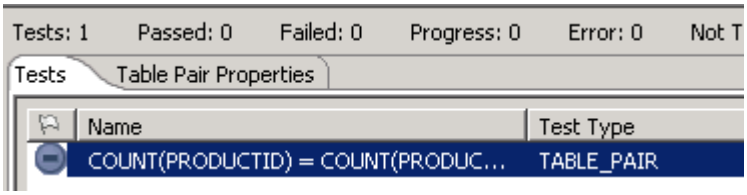
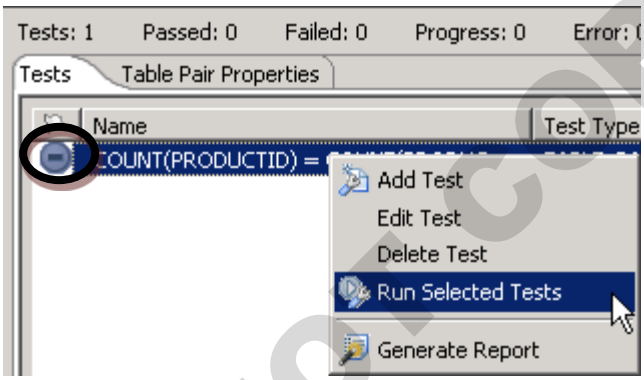
Step 2. Run the COUNT test and observe processing progress



1) In the Details area, select the **Count** test.

Note: The grey circle with the horizontal line symbol signifies that the test has not run.



2) Right-click the selected test and click **Run Selected Tests.**

Note: The icon changes to blue with a white arrow pointing downward. The icon indicates that PowerCenter is installing the tests.

Note: The icon changes to blue with a white arrow pointing to the right. The icon indicates that the tests are running.

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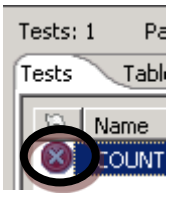
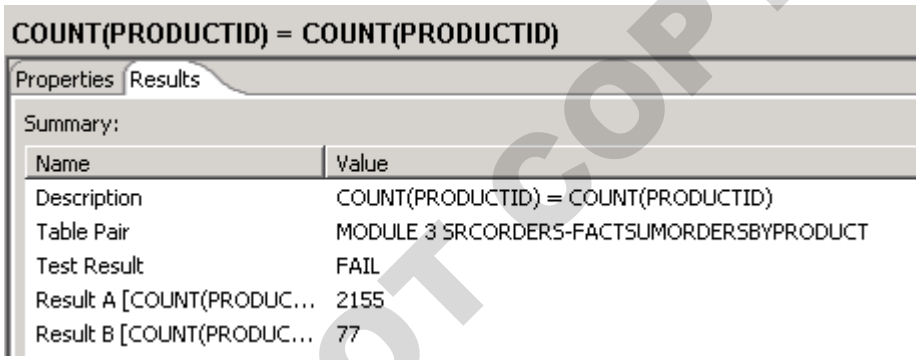


Note: The icon changes to either of the following when the test has finished:

- Green circle with a white check-mark, which indicates that the tests have passed
- Red circle with a white X, which indicates that at least one test has failed.

Step 3. Evaluate the COUNT test run



1) The Results area in the lower right pane displays the test results. The Test Result is a FAIL.

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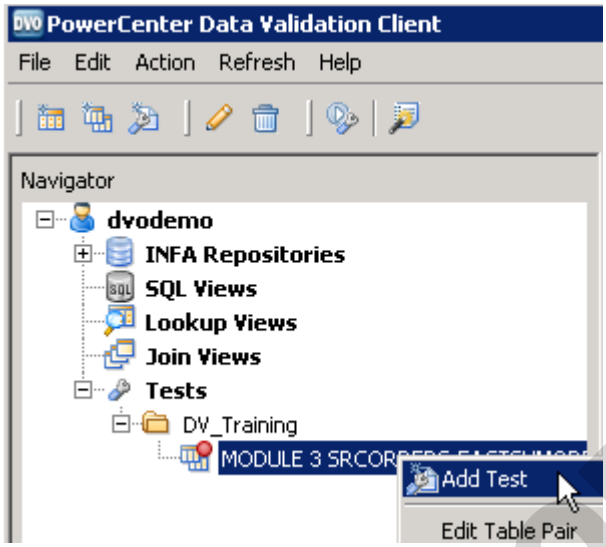
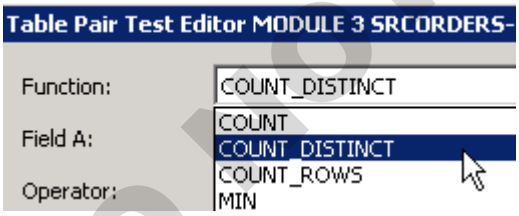
2) Create a COUNT_DISTINCT test

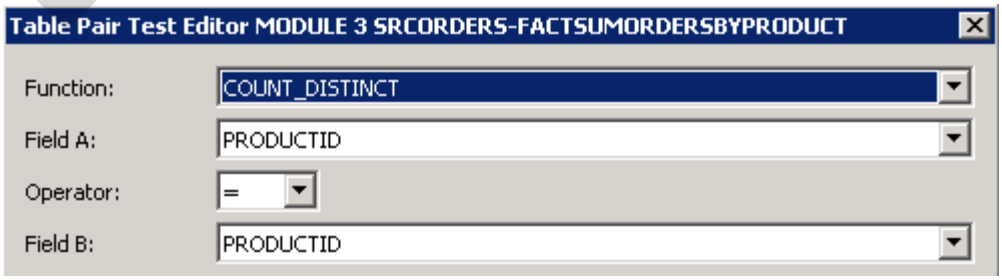


3) In the Navigator, select the MODULE 3 SRCORDERS-FACTSUMORDERSBYPRODUCT table pair.

4) Right-click and click **Add Test.**



5) In the Table Pair Test Editor window, in the Function drop down list, click **COUNT_DISTINCT**.



6) In the Field A drop down list, click **PRODUCTID.**

7) In the Operator drop down list, click the equal sign **(=).**

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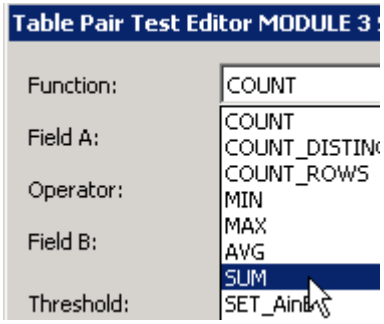
8) In the Field B drop down list, click **PRODUCTID**.

9) Click **Save.**

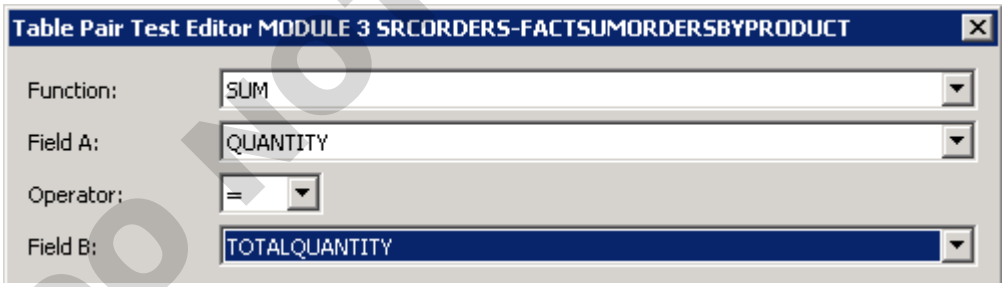
Step 4. Create a SUM test

1) In the Navigator, select the MODULE 2 SRCORDERS-FACTSUMORDERSBYPRODUCT table pair.

2) Right-click and click **Add Test**.



3) In the Table Pair Test Editor, in the Function drop down list, click **Sum.**



4) In the Field A drop down list, click **QUANTITY.**

5) In the Operator drop down list, click the equal sign **(=).**

6) In the Field B drop down list, click **TOTALQUANTITY.**

7) Click **Save.**

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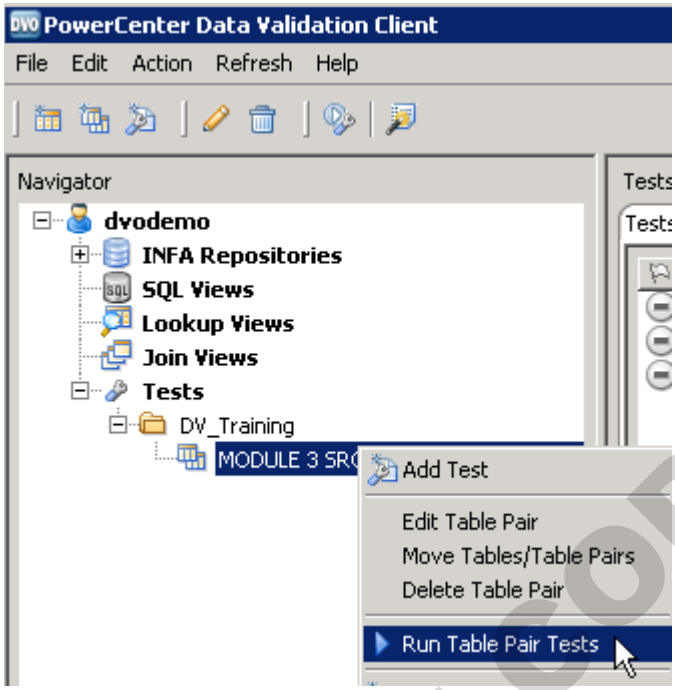
Step 5. Run all tests for the table pair

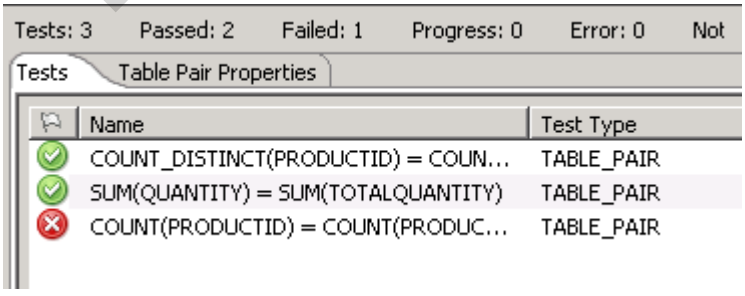


1) In the Navigator, click **MODULE 3 SRCORDERS-FACTSUMORDERSBYPRODUCT** table pair.

2) Right-click and click **Run Table Pair Tests.**

Note: All tests for a table pair run at the same time. You cannot run an individual test. If you select an individual test, Data Validation runs all of the tests for that table pair.

Step 6. Examine test results



1) In the Detail area, click the COUNT test. The Results area displays the test results.

What was the result of the COUNT test?

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Why did it fail?

2) Click the COUNT_DISTINCT test and view the test results on the Results area.

   What was the result of this test?

   Why did it pass?

3) Click the SUM test and view the test results on the Results area.

   What was the result of this test?

   Why did it pass?

4) What is the difference between COUNT and COUNT_ROWS?

5) Which tests take null values into consideration?

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