Combining and Manipulating Data
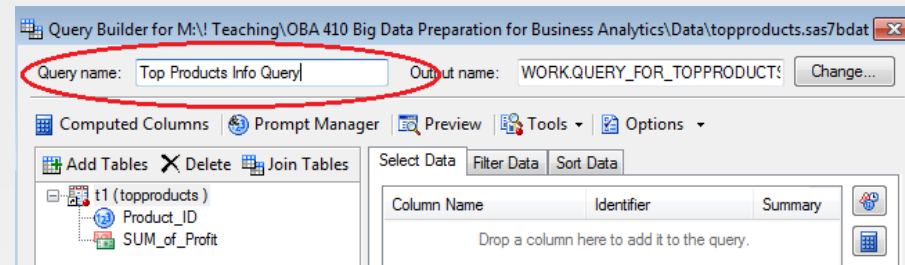
- Demonstration: Joining Tables

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  1. Create a new project, add the **topproducts** SAS data set.
  2. Add the **products** SAS data set to the project.
  3. Add the **country_lookup.xlsx** file to the project. Name the imported table **country_lookup** and select the **First row of range contains field names** check box. Do not make any changes to the field attributes.
  4. Right-click **topproducts** in the Project Tree or Process Flow and select **Query Builder…**.

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  5. Name the query Top Products Info Query and the output table topproductsinfo.


  6. Select **Add Tables**. Verify that the **Project** icon is select in the Open Data window. Hold down the CTRL key and select **products** and **country_lookup** tables. Select **Open**.
  7. A message appears and indicates that SAS Enterprise Guide was unable to find matching columns on which to join in all three tables. Select **OK**.
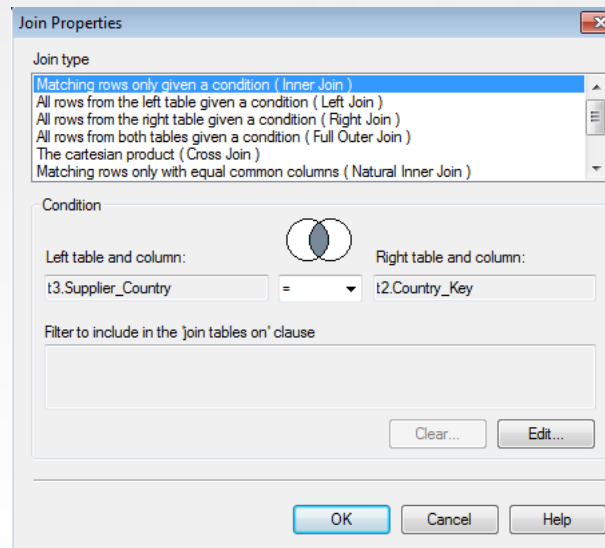
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  8. The Tables and Joins window automatically opens. To join the ==**products**== and ==**country_lookup**== tables, first select ==**Supplier_Country**== in the ==**products**== table. Select ==**Supplier_Country**== a second time and drag it to connect it to ==**Country_Key**== in the ==**country_lookup**== table.
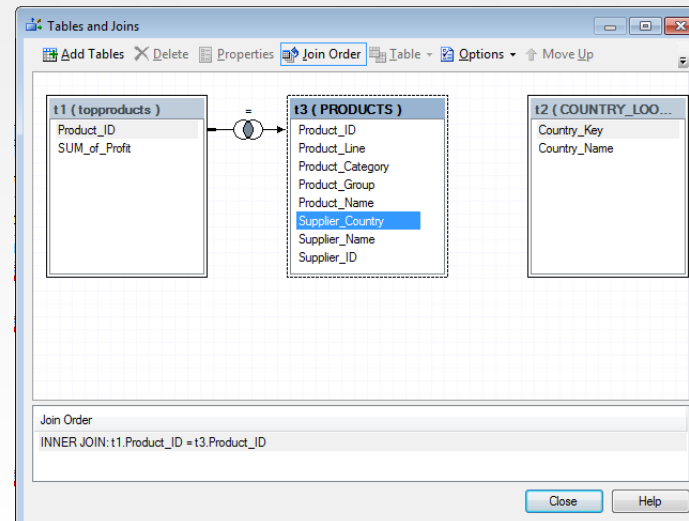
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  9. The Join Properties dialog box automatically opens. Verify that the join type is ==**Matching rows only given a condition (Inner Join)**== and that the condition is ==**t2.Supplier_Country = t3.Country_Key**==. Select ==**OK > Close**== to return to the Select Data tab.

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   10. Double-click on the following columns to add each to the Select Data tab: **Product_ID**, **SUM_of_Profit**, **Product_Category**, **Product_Name**, **Supplier_Name**, and **Country_Name**.
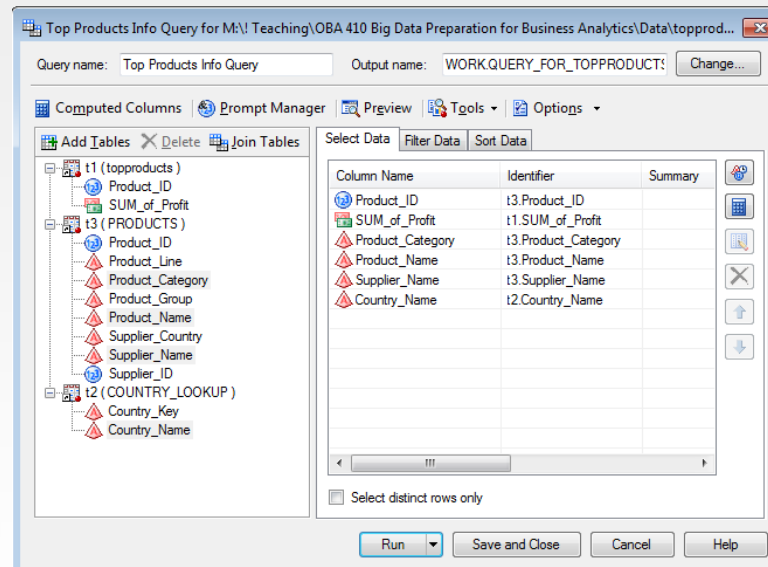
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  10. Select **Run** to execute the query. Verify the results and save the project.