

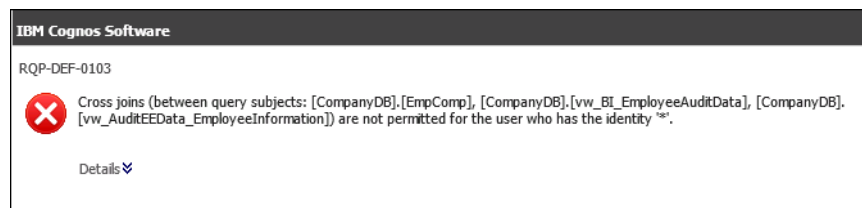
PLANSOURCE[®]

Join Queries in Cognos Analytics Reporting

Business Intelligence

Cross-Join Error

A join is a relationship between a field in one query and a field of the same data type in another query. If a report includes data items from different Administrator Package folders, for example, and those data items are not joined in the model, a cross-join error results.



To report on PlanSource HCM data in different tables you must:

- Create multiple queries.
- Join the queries through a common data item.
- Link the join query to the report page.

Join Relationship - Administrator Package Example

This example demonstrates how to report on data items from two Administrator Package folders: Audit Information folder and Employee Information folder.

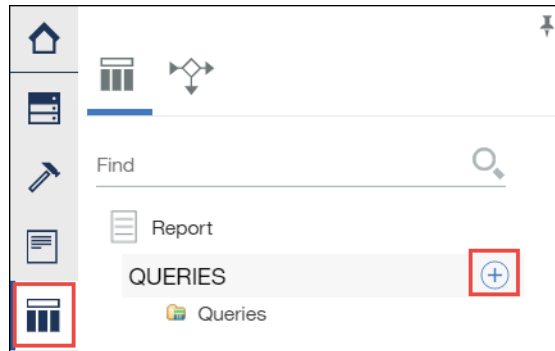
Important

The Administrator Package is intended for use only by experienced Business Intelligence users with a knowledge of data modeling.

Create Multiple Queries

When working with your PlanSource HCM data, you often need to report on information from more than one table. Begin by creating separate queries in Reporting.

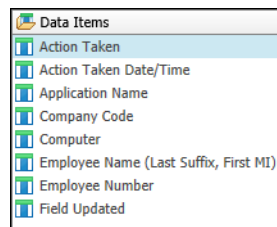
1. From the side panel, select the Queries icon, and then select the Add Query icon (+).



2. Right-click Query1, and then from the drop-down list select Rename Query.
3. Rename the query, Employee Query, and then select OK.
4. Double-click the Employee Query icon, and then add data items to the query.
 - a. From the side panel, select the Data icon, and then the Source tab.

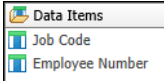


- b. Navigate to the Audit Information folder, the Employee Audit Information query subject.
 - c. Add query items to the Data Items pane.



5. From the side panel, select the Queries icon, and then select the Add Query icon (+).
6. Right-click Query1, and then from the drop-down list select Rename Query.
7. Rename the query, Job Code Query, and then select OK.
8. Double-click the Job Code Query icon, and then add data items to the query.

- a. From the side panel, select the Data icon, and then the Source tab.
- b. Navigate to the Employee Information folder, the Employee query subject.
- c. Add query items to the Data Items pane.

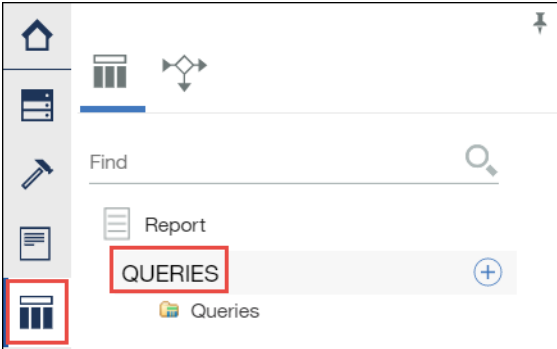


Next, join the queries by linking a data item common to both.

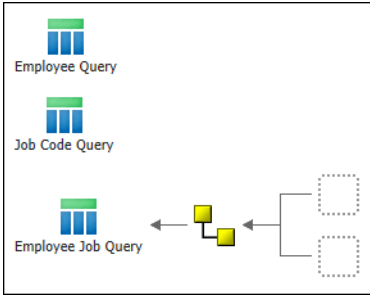
Join Queries

Combine data from different tables by joining separate queries through a common data item.

- 1. From the side panel, select the Queries icon, and then select Queries.

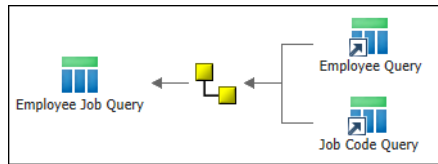


- 2. From the side panel, select the Toolbox icon, and then drag a Join object to the work area.
- 3. Right-click Query1, and then from the drop-down list select Rename Query.
- 4. Rename the query, Employee Job Query, and then select OK.



Two drop zones appear to the right of the Join object.

5. Drag the Employee Query icon to one drop zone, and drag the Job Code Query icon to the other drop zone.

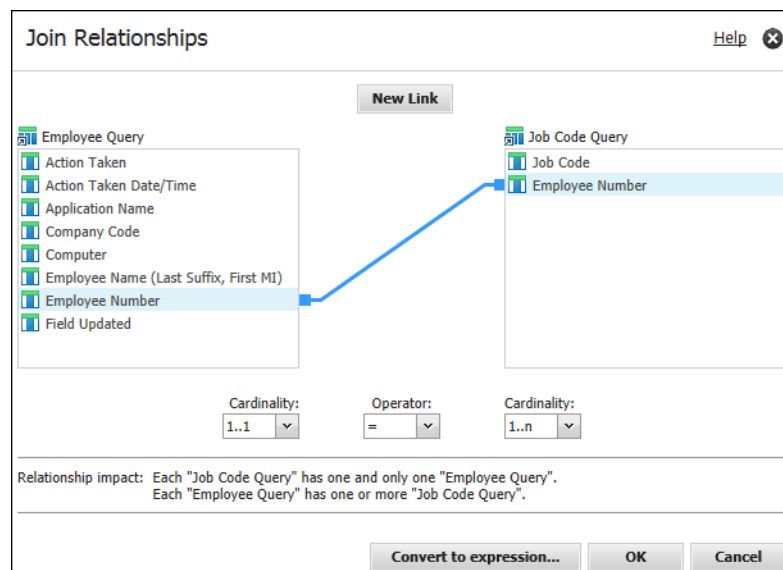


6. Double-click the Join object.



The Join Relationships dialog box appears.

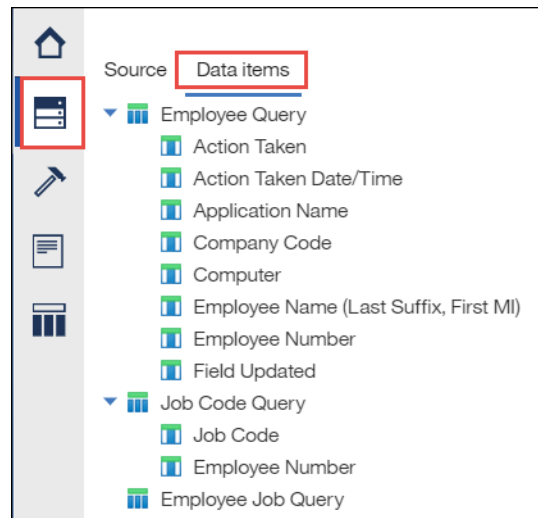
7. Select the New Link button.
8. From the Employee Query pane, select Employee Number, and from the Job Code Query pane, select Employee Number.
9. From the Cardinality drop-down lists, make a selection.
 - Employee Query: 1..1
 - Job Code Query: 1..n



Note

Cardinality defines the relationship between queries: one-to-one, one-to-many, many-to-one, many-to-many. Cardinality can be changed as needed.

10. Select OK.
11. Double-click the Employee Job Query icon.
12. From the side panel, select the Data icon and then select the Data Items tab.



13. Drag query items from both the Employee Query and the Job Code Query to the Data Items pane.

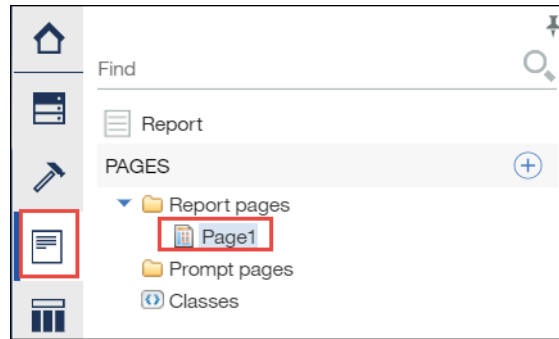
Note

Only one Employee Number data item is required in the join query.

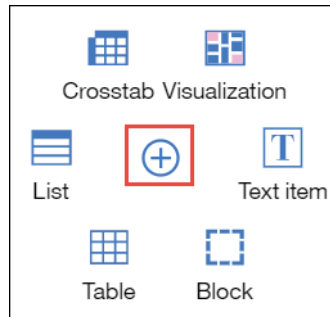
Associate a Query with a Report Container

In order for data items in a query to render on a report page, the query must be linked to a container on the report layout.

1. From the side panel, select the Pages icon, and then select Page1.



2. In the report work area, select the + icon, and then select a report layout.



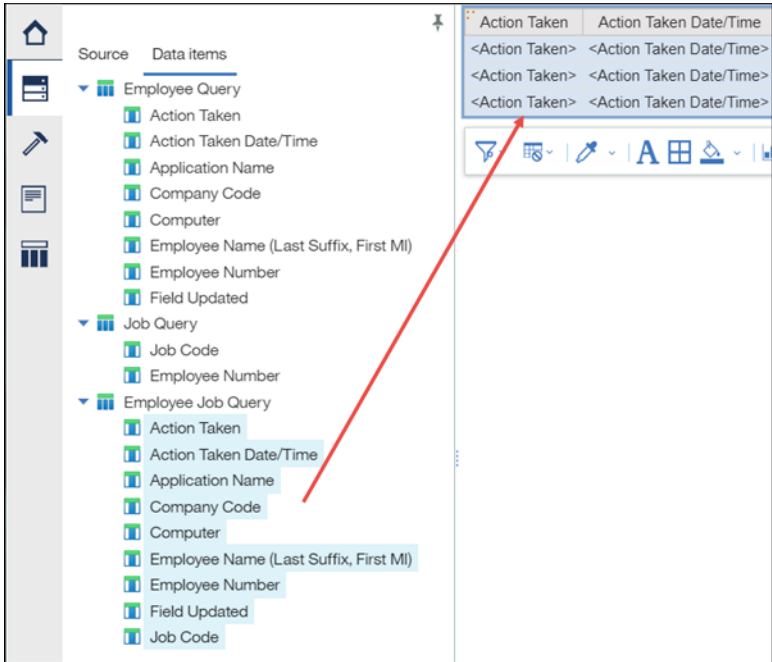
3. From the Object and Query Name dialog box, select the Query Name drop-down list.

4. From the drop-down list, select the Employee Job Query, and then select OK.

The join query is now associated with the report container.

5. From the side panel, select the Data icon, and then the Data Items tab.

6. Move data items from the join query to the report page.



- 7. Format and filter the report as needed.
- 8. Save, and then run the report.