Intersect Sub Query

Introduction

In this tutorial, we will walk through setting up an Intersect sub query. A good way to think about **Intersects** is - use them if you need a list of something that appears in two seperate lists.

In this scenario our main report will have a list of athletes that attended camps in the current year. We will then create a list of athletes from the previous year, and only return a list of athletes that are in both. This will effectively give us a list of athletes that are return customers from last year.
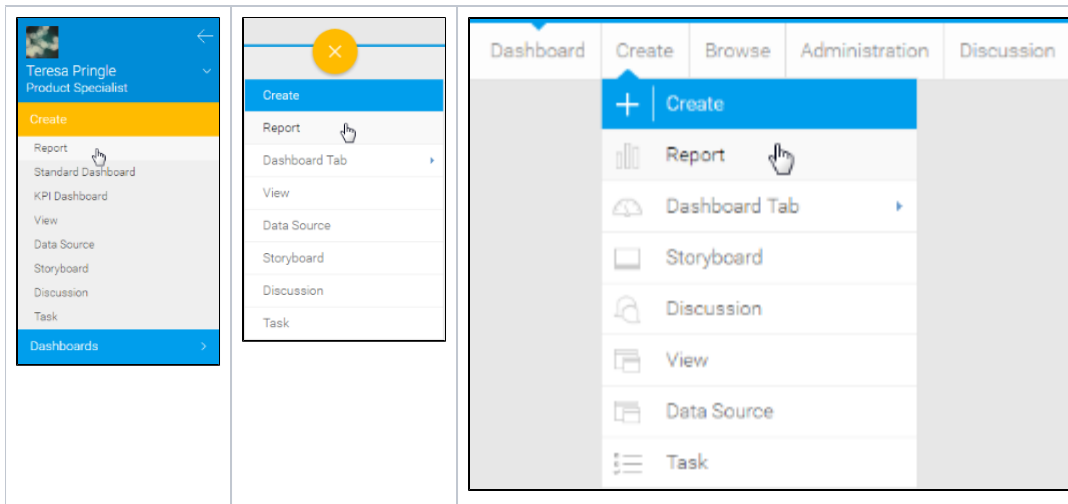
Create

1. Start the **Report** creation process by using one of these methods:

- **Left Side Nav** - open the left side navigation panel, click on Create, select the Report option

- **Top Right Button** - click on the create button, select the Report option.

- **Toolbar** - click on the **Create** link in the toolbar, select the Report option.
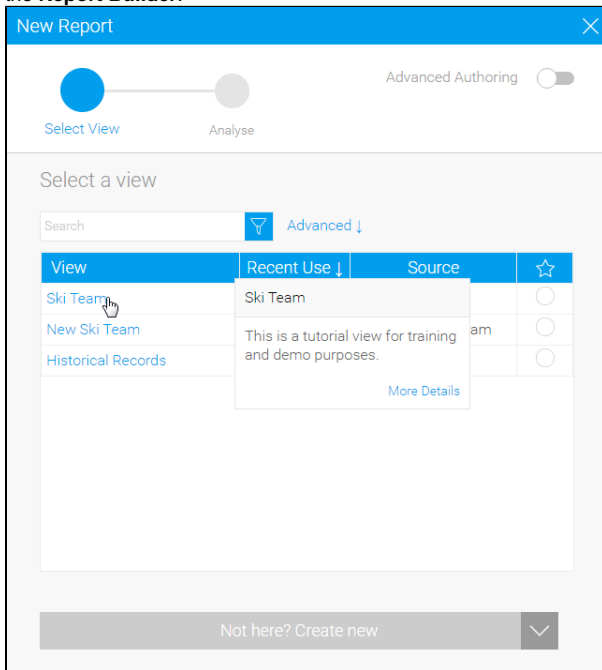
You will now see the **New Report** lightbox.

Left Side Nav	Top Right (with Left Side Navigation enabled)	Toolbar

2. Click on the **Ski Team** view in order to use the fields defined within it for creating the report.

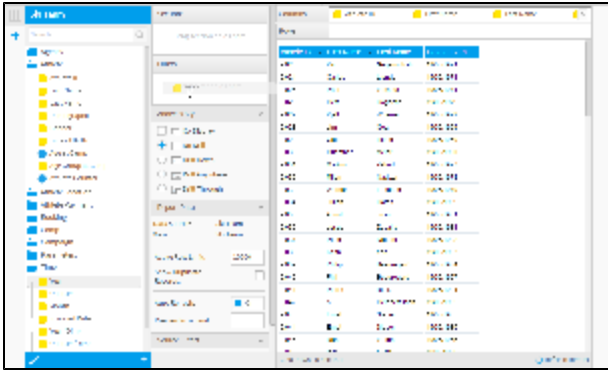**3.** You will now be taken to the **Data** step of the **Report Builder**.

Master Query

4. Drag and drop the ▢ **Athlete ID**, ▢ **First Name**, ▢ **Last Name**, and ▢ **Date of Birth** dimensions into the **Columns** list.

5. Drag and drop the ▢ **Year** dimension into the **Filters** list.
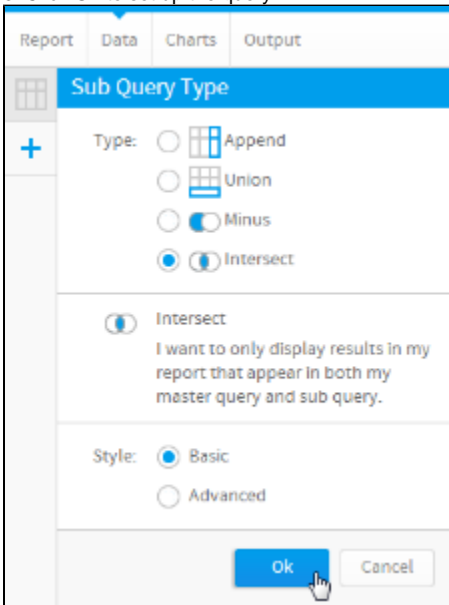
Intersect Query

Create Intersect

6. Click on the **+** button in the Sub Query panel to the left of the Data step to add a Sub Query.

7. Set the Type to **Intersect** and Style to **Basic**
.

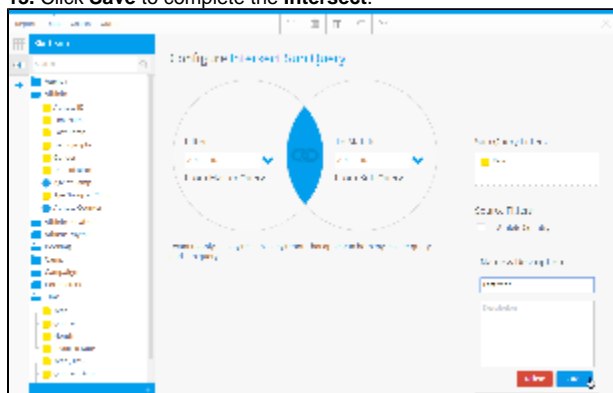**8.** Click **Ok** to set up the query.

Configure Intersect

9. Set the **Filter** on the **Master Query** to apply to the **Athlete ID** field. This is how rows to be used from the master query will be located, matching the ID field.

10. Set the **To Match** field on the **Sub Query** to be the **Athlete ID** field. This will list all Athete ID values to be matched to the master query.

11. Drag the **Year** field into the **Sub Query Filters** list. This will be used to restrict the list of Athlete IDs to a certain date range.
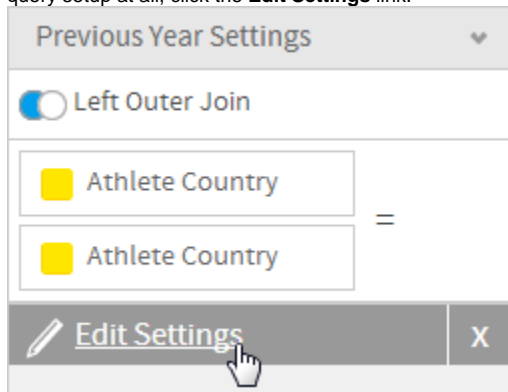
12. Change the name of the Sub Query to **Las
t Year**.

13. Click **Save** to complete the **Intersect**.
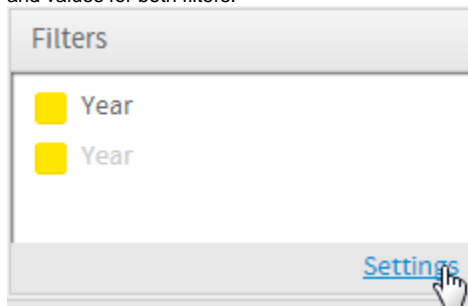

Edit Settings

14. If you need to make changes to your sub
query setup at all, click the **Edit Settings** link.

Apply Filters

15. Click on the **Settings** link in the **Filters**
panel. This will allow you to configure logic
and values for both filters.

Master Filter

16. Set the **Master Query** filter to be Year **Bet
ween**

17. Click the **Define Value** link and select the **Pre-defined Period** option.

18. Select the **This Calendar Year** option and click the **Submit** button.
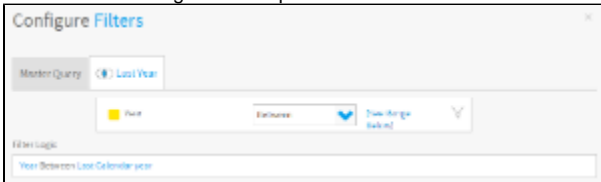

Sub Query Filter

19. Navigate to the sub query filter by clicking on the **Prior Years** tab.

20. Set the filter to be filter to be Year **Between**

21. Click the **Define Value** link and select the **Pre-defined Period** option.

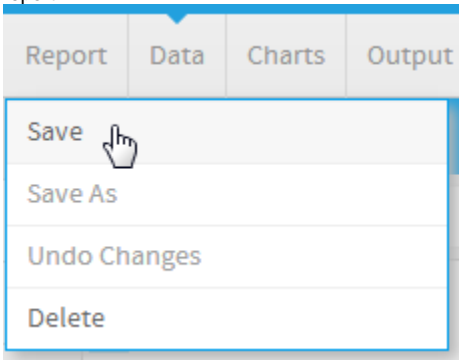**22.** Select the **This Calendar Year** option and click the **Submit** button.

23. Close the Configure Filters panel.

Save

24. Click **Report** > **Save** to activate your report.

25. Set the **Name** of your report to **Intersect Sub Query Tutorial**.

26. Set the **Description** to **This report was written using the Sub Query Tutorial**.

27. Select **Tutorial** as the **Category**.

28. Select **Training** as the **Sub Category**.

29. Click **Activate** to finish.

30. You now have an active Intersect Sub
Query report.

Intersect Sub Query Tutorial

This report was written using the Sub Query Tutorial

Athlete ID ▾	First Name ▾	Last Name ▾	Date of Birth ▾
9,068	Dietmar	Geiger	19/05/1992
9,289	Simone	Clancy	14/09/1973
9,301	Jonathan	Beaulieu	01/01/1983
9,640	Anthony	Liberti	05/02/1987
9,645	Bjoern	Sieber	05/03/1991
9,653	Jonathan	Hildreth	05/05/1991
9,687	Sean	Higgins	06/06/1992
9,691	Cooper	Hibbard	06/07/1986
9,717	Joshua	Bedard	07/03/1986
9,718	David	Wolff	23/08/1992
9,721	Dean	Fagan	07/04/1991
9,722	Jonathan	Wolf	07/04/1991
9,736	Tyler	Judkins	07/12/1986
9,740	William	Geller	08/01/1992
9,790	Christopher	Beckmann	09/10/1988
9,798	Joseph	Woller	10/02/1985