Creating a View

- Overview
- Create
- Entity Relationship
- Selecting Fields
- Field Categories & Meta Data
- Field Format
- Calculated Fields

 - Calculated Metric
 Date Hierarchy Fields
- Drill Down Hierarchy
- View Summary & Saving ٠
- Further Information

Overview

top

The View is a metadata layer used by Yellowfin to hide the complexity of database structures from Report Writers. The View is used to define which columns in your database you wish to make available for Report Building. These fields may come from multiple tables and therefore will require joins to be defined (the business logic that links rows in a table together).

The two major steps in creating a view include:

- 1. Relationship Entity Diagram selecting the tables you need from your database and defining how data in these tables are joined
- 2. View Field Selection defining which fields you wish to make available from these tables and providing metadata for them.

See Views Overview for more information.

Create

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

- Top Right Button click on the create button, select the Vie w option.
- Toolbar click on the Create link in the toolbar, select the View option.

• Admin Console navigate to the Admin Console, open the Views section, click on the Add button.

Top Right

You will now see the Create New View li ght box.

<u> </u>
Create
Report
Dashboard Tab
View
Data Source
Storyboard
Discussion
Task



- 2. From here you will need to either;
 - Select your data source, or
 - Create a new source

We're going to select **Ski Team** from the source type list.



3. You will now see the basic parameters required for your view. We are going to look at a more complex view, so select the **Multiple Tables** opti on.

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4. Click on the **Edit View** option in order to access the main view builder.

5. The view builder page will now open. You will see a list of tables in the **Datab ase Tables** panel on the left hand side and the **Table Options** on the right hand side of the canvas.

6. Update the view **Name** and description in the **View Options** menu as shown here.

Call this view Tutorial View.

Enter the View Description: This will be used to learn about Yellowfin.

This will be used to learn about Yellowlin.

Performance

description for you

Entity Relationship

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The Entity Relationship is one of the key components of the view builder. This allows you to define all the key relationships between your selected database tables.

1. From the table list on the left of the	View M
screen, drag the following tables onto	Databa
your canvas:	Search
AthleteFact, Person, and Camp	Vir AD AD AT BO CA
	• 🗖 🖓

You should now have three tables on your canvas as displayed on the right.

2. On	the Athlet	Fact tabl	le click the
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join link. This will open the join pop-up. Create a join between the Athle teFact Table and the Person Table.

> Join From: AthleteFact Join Type: Inner Join Join To: Person Join logic: PersonID Equal to PersonID

3. Click the Add button to add to the join list. You should now see the join logic as depicted on the right.

4. Click the Save & Close button to save your join.

The join will now be displayed as a line between your AthleteFact and Person tables. Hovering over the join icon will display the join logic in a tooltip.

5. Create another Inner Join from Athl eteFact to Camp where CampID = CampID

You can move your tables around the canvas to make the diagram easier to read if needed.

Click the Save & Close button to save your join. The join will now be displayed as a line between your AthleteFact and Person tables. Hovering over the join icon will display the join logic in a tooltip.

See Model for more information.

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Select fields that you wish to make available to your end users for reporting. Only columns selected from each table in your Unattached list will be available for reporting.

1. Click on the expand icon next to a table name to expand it.



2. Click the **Properties** link on the **Athle teFact** table. The table properties will now be displayed in the **View Options** panel.

AGEGROUPATCAMP
AGENCYID
BOOKINGCURRENCY
BOOKINGMETHOD
BOOKINGSTEP
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CAMPID
CAMPLENGTH
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CANCELLATIONFEE
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DEMOGRAPHIC
ENDDATE
INVOICEDAMOUNT
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INVOICEESTIMATE
PERSONID
STARTDATE
STATUS
View Data
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Edit Table Properties

AGEATCAMP

3. Click the **Columns** section link to open the options. A set of columns from the **AthleteFact** table will be displayed.

Select the AgeAtCamp, AgeGro upAtCamp, Cost, Demographic , InvoiceEstimate, InvoiceDate, and PersonID columns.

4. Once you have selected these, click on the Properties link again to update your diagram.

5. The columns you selected should now appear in **bold** on your table (as pictured).

		ATHLETEFACT			
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6. Repeat the last step for each table.

Camp: CampDemographic, Ca mpDescription, CampRegion, and ISOCODE Person: DateOfBirth, Gender, R egion, and ISOCODE

			ATHLETEFADT A			
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See Table Properties for more information.

Field Categories & Meta Data

top Initially, fields selected from the previous step will all be in the Unattached panel in folders that represent the tables that they originated from. These fields have not had meta data associated with them and cannot be used by your report writers. You must assign fields to folders in the Available Fields panel. The reason you do this is to organise your fields in a way that is logical for the report writer, giving you the chance to group them differently than the table structure in the database.

1. First of all, make sure you have the categories you want to use to divide your fields. Click on the Add/Edit Folders link from the Create menu.

Add Fields				
Add/Edit Folders				
Calculated Field				
Calculated Filter				
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Date Function				
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2. Add the Athlete, Athlete Location, A thlete Payment, and Camp folders.

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delegt	Add Field Category
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Sub	mit

3. Click Submit to add the folders.

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Submit μ	
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3. Click the **Add Fields** option in the **Cr eate** menu in order to add more fields to your folders.

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0		Carl Mary Time	and taken a set						1 Jahre	

4. From the **AthleteFact** table either select and drag the fields individually or use shift to click on each of the **AgeAtC amp**, **AgeGroupAtCamp**, and **Demogr aphic** fields and drag these into the Athl ete folder.



On completion you will note that the column names are now in bold indicating that they have been added to the view.



5. Now follow the same steps as above and put all the fields in their correct folders.

> Cost, InvoicedEstimate, and In voicedDate fields > Athlete Pay ment folder. Region and ISOCODE fields > Athlete Location folder. Person fields > Athlete folder.



6. To update the field name to provide a more user friendly name – click the **IS OCODE** field heading. Change the business name of the field to **Athlete Country**.

7. This field will use a Reference Code to convert ISO Country Codes to their respective names. To set this up, click on the drop down menu on the field and choose the **Edit Format** option.

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CA	CA	СА
СА	CA	CA



8. Open the **Format** section of the menu.



9. Set the Format option to **Reference Code**. In this case you will use an existing type that we have set up for a sample.

> See Reference Code Use for more information.

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10. Select **Country** from the drop down menu.

11. Click on the close button to commit your changes.

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12. The **Athlete Country** column will now be updated.



See **Prepare** for more information.

Field Format

top

The format options will provide the default for how the field will be used on the report. A user will still be able to change a format for a specific report.

1. Click on the Field Settings menu to access formatting options for all your fields.		Field Settings	
2. Locate the Cost field in the Athlete Payment folder and click on it.	Test Nation. Field Settings Cauch Q Date Fields · · · Athlete Antiper Cost INVOCEDANCIANT Cost INVOCEDANCE Cost Camp · · ·	Field Settings	×
3. Expand the Format section.	led New		×
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5. Apply a colour for chart display if required.	Allahoo Reymon in a	on Die Seine and te legt geten die federaden Generalis voor die gezalveer kongelyne het takt.	Parci el la 🧹
6. Close the menu to apply your changes.	Instantian Instantian Como	The sub-Separate Under the stand Asserts of International Sectors in Sector Sectors The Sectors Sectors of Sectors Sectors Sectors Sectors Asserts Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sectors Sec	

See Field Settings for more information.

Calculated Fields

top

In addition to fields from your database you can create calculated fields, pre-defined filters, and date hierarchy fields.

Calculated Metric

This type of calculated field allows you to build a calculation that will return a numeric value as the result. In this example we will aim to calculate profit by subtracting cost from invoice figures.

1. Click on the **Create** button and select the **Calculated Field** option.

Add Fields
Add/Edit Folders
Calculated Field
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Calculated Field Name

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Field Category

Formula Type

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2. You will now see the Calculated Field window. Set the **Calculated Field Name** to **Profit**.

3. Set the Field Folder to Athlete Payment.

4. Leave the Formula Type as Simple.

5. From the Select Field drop down search for **INVOICEDAMOUTNT** and click it to build it into the calculation.

calculated Freid	
Calculated Field Name Define a name for the calculation to be displayed in the report field list.	Profit
Field Category Select which Field Category to save this calculated field in.	Athlete Payment
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+ Add

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6. Now click the - (minus) button directly below the Select Field drop down.

7. Select the **COST** field to finish this simple calculation.

8. Click the **Validate** button in order to let Yellowfin validate your calculation. You should see a **SQL is valid** message displayed above the builder if successful.

	Calculated Field			
 Click Save to save the field and nake it available for use in reports. 	Galculated Field Name Define a name for the calculation to be	displayed in the report field list.	Profit	
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that it's a formula.

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4,230.43	02/12/2013	96.35
4,018.91	09/12/2013	-67.12

See Calculated Fields for more information.

Date Hierarchy Fields

Date Hierarchy calculated fields allow you to build levels of a hierarchy based on a single date field in your database. This can then be used to define Drill Down hierarchies, or for other purposes in reports.

1. First you will need to ensure you have a date field to use with the hierarchy templates. We've already got	A	dd Fields	
the InvoiceDate field in the Date Fields folder, so this has been taken care of.	A	dd/Edit F	
You are now going to use the Date Function builder to create the other levels of your hierarchy, adding them to	C	alculated	
the same folder as your date field - this is important for when you build the hierarchy later.	C	alculated	
Start with the Month Start Date . The reason we're using the Month Start Date is so that the field is still a date	Pa	arameter	
format, even though we can change the display to be just the Month component. This means we can use it	Grouped		
for Time Series charts and other date related functionality.	D	ate Func	
2. Click on the Create button and select the Date Function option.	Fi	lter Grou	
	+	Rav	

3. Select the INVOICEDDATE field from the Date Fields folder to base the function on.

Ad	d Fields						
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FIERD.	Select	<u> </u>
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5. Set the format to be **Month Name**. This will mean that the name of the date's month will be displayed in reports and charts, but underneath it will still be a date value.

6. Click Save to complete the function ...





8. You will now have three levels on which to create a date hierarchy (see the next section).

Date Fields



- INVOICEDDATE
- Month Start Date INVOICE...
- 🛗 Year Start Date INVOICED...

Drill Down Hierarchy

top

The hierarchy allows report users to drill down a dimensional hierarchy by limiting the result set as they select one level to the next. For example drill from Year (2014) to Month (August) etc.

When creating the hierarchy, you need to start from the top level and work your way down. In this example we are creating a **Year** > **Month** > **Date** hierarchy, so we will start with the **Year** field at the top.

1. Click on the menu on your **Year** field and select the **Drill To** option, then click on the field you want to drill down to (**Month Start Date**)

2. You will now notice that there is a link between the **Year** and **Month** fields. This lets you know there is a hierarchy link defined between the two fields.

3. Next repeat the process by clicking on the **Month** field drop down menu, navigate to **Drill To**, and specifying the **I nvoiced Date** field.

4. You will now see there is a 3 level hierarchy defined. You wont have to define Drill Down options on the bottom level (Invoiced Date).

5. Once you rename the fields, you'll have a clean hierarchy, ready for use in a report.

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Date Fields

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Defensi

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- 🕇 Date Fields
- DATEOFBIRTH
- 🕂 🛗 Year Start Date INVOICEDDA...
- 🛗 Month Start Date INVOICEDD...
 - INVOICEDDATE



See Drill Down Hierarchies for more information.

View Summary & Saving

top

From the any step of the builder you can click on the View menu and save your view.
 Select the Save option.

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View	Model	Prepare	Test	
Save	Ð			
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3. Update the view name and description if required. Specify a content **folder** and **sub folder** to store the View in.

4. Click Save and Publish to complete.

Further Information

top

For more information around the creation of Views in Yellowfin see the Views Overview section of the wiki.

top