Understanding Connection Parameters

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Overview

top

Once you have created a data source connection, you can view or modify its advanced connection parameters. This is done by accessing the Connection page in the Administration module.

To access this page, follow the steps:

- 1. Navigate to Administration > Admin console, and expand the Data Sources tab.
- 2. Click on a connection name to access the Connection page.

Data Sources		
Connection	Description	
Ski Team	Ski Team is the demonstration and tutorial datab	6 ~
sprooseys postgres		6 🛆
Yellowfin Configuration Database		6

3. From here you will have a range of options, split into the groups explored below.

Connection Description

This section allows you to define the basic metadata for your connection. These items should be descriptive as users will need them in order to identify the connection when building content.

Connection	Connection	\times
Let's make this easy. You can edit and manage your data source connection parameters here. This includes Connection Settings, Security, and Access Filters. Image: Security and Filters. <td>Connection Description Ski Team Data Tutorial data based on the Ski Team business. + Add tags Connection Settings Connection Pool Security Access Filters</td> <td>Save</td>	Connection Description Ski Team Data Tutorial data based on the Ski Team business. + Add tags Connection Settings Connection Pool Security Access Filters	Save
	Usage Parameters	^
	Views and Content	^

Name	Description

Database name	Name of the database connection.
Database description	Provide a description of the connection.

Connection Settings

These are the connection parameters that need to be defined in order for Yellowfin to know how to access your database.

You will be presented with a list of parameters that relates to the type of database you have chosen to connect to, as each database may require different options. However, the common parameters are explained below.

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Connection		Connection				\times			
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parameters here	e.	Connection Settings			~	_			
Settings, Securit Filters.	ty, and Access	Connection Method Specify the type of connect	tion required.		\checkmark				
? Need h Visit the wiki to fi are looki	telp? Yellowfin forum or ind the answers you ing for.	Authentication Adapter Specify if you wish to use t method, or pass through sy	the standard database authentication ystem user authentication to the database.	Standard Authentication	\checkmark				
Availab Available this Data	vility e. The connection to a Source was	Database Type Specify the type of databas	se to connect to.	Microsoft SQL Server	\checkmark				
success	ful.	Include Schema in SQL Include the schema name	when addressing tables in SQL queries.		 Image: A second s				
		Database Host Specify the name of the se	erver hosting the database.	localhost					
		Use Named Instance Specify the name of the SC	QL Server instance.						
		Database Port Define the TCP/IP port nun	nber the database is running on.		1433				
		Database Name Specify the name of the da	itabase.	NewSkiTeam					
		Database Authentication		SQL Authentication	\checkmark	-			
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Name Connecti on Method Authenti cation Adapter Databas e Type Databas e Mode* Databas e Name* Username Password Schema	Description Shows the Specify an • Stand emplo • Pass- specif • Stand Howe only to Change the source has Select the in Specify or in Allows to y Specify the	on type of connection that authentication method lard authentication: c vys the user of the comr through authenticatio y a database user acco lard authentication poo be created again whe e database type. This is the same table structu mode for your databas update the name for you of the user account to ou change the saved p	t was specified when creati I for the database adapter. I connects to the database win nection pool by establishing on: connects to the database ount here. Creates a new c to pooling): similar to the sol works differently: connect en needed./= s only suitable for situations ure as the previous one. e. bur database. connect to the database win bassword to the database a ith this database connection	ng a connection. Car Options include: th a specified user. T permanent connecti se using the security onnection for each q tandard authentications are still created s where your data ha th. ccount, by clicking or n, if your database co	nnot be ch ions, i.e, th implemen uery, while on that cor as per the as moved t	anged. etails need t ey are not o ted at the da honouring inects to the pool's limits to a different	o be provic eleted afte tabase, i.e he connec database , but idle c source. Er	ed with this r use. there is no ion pool lim using a spen onnections a sure that the word link.	option. Also need to it. cified user. are deleted, ⇒ new data

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Isolation Level	Choose an isolation level to use for this database connection; this refers to the degree to which a transaction is isolated from being modified by transactions. Options include:
	The supported levels of isolation depend on your database type.
	 Read Uncommitted: Includes modified data that is not yet committed in the database when running transactions. Not ideal, as the uncommitted data might get deleted or modified further. Read Committed: Only reads data that has been committed. Ignores uncommitted data. Repeatable Reads: Does not read modified data that has not been committed, however includes new values even if they're uncommitted. Serializable: Treats transactions as they occur, i.e. serially rather than concurrently. Learn more about this here.

*These are database specific parameters.

Connection Pool

The connection pool section allows you to specify the number of database connections that can be open simultaneously, the refresh and timeout rates, and if a secondary connection pool can be used.

A connection pool is a collection of connections between Yellowfin and your database; each connection processes a single database query, so the limit set in the pool ensures how many queries will be processed simultaneously. This warrants too many queries from being processed and slowing down the system's performance.

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Connection		Connection					
Let's make this easy:					_		
You can edit and mana data source connection	sge your n	Connection Description		×	Save		
parameters here.		Connection Settings		~			
This includes Connecti Settings, Security, and Filters.	ion Access	Connection Pool		^			
? Need help? Val the Velow	in community	Min Connections Define the minimum number of connections to be open simultaneo	rusiy. 1				
or wiki to find th you are looking t	e answers for	Max Connections	5				
Availability		Define the maximum number of connections to be open simultaneously.					
Available. The co this Data Source successful.	onnection to r wild:	Refresh Time Define the number of minutes between connection resets.	180				
		Timeout Define the seconds a connection can remain open before it is close	180 sd.				
		Use secondary pool Enable the use of a secondary connection pool for this database, fo beckground tasks.	or the purposes of running				
		Security		6 ×			
		Access Filters		Ÿ			
Name	Descr	iption					
Min Connections	n The minimum number of connections that can be opened simultaneously.						
Max The maximum number of connections to be oper Connections		ximum number of connections to be opened simi	ultaneously.				
Refresh Time	Paresh Define how long should a connection be created for. When this limit is reached, and the connection is not processing a transformer connection gets deleted. A new connection will be created if required.			acti			
Timeout	At times a query can take too long to run (for example if processing large amounts of data). Use this to specify how long a single que should run before it's cancelled.						

Use secondary	Enable this to employ the use of a secondary pool. This pool will only be used for managing background processing, unlike the first one that's ideal for front end processing.
poor	If enabled, you can specify connection and timeout limits specific to this pool, as described in the above configurations.

Security

This section allows you to define who has access to this data source connection, and what they can do with it.

Connection	Connection	\times
Let's make this easy. You can edit and manage your data source connection parameters here. This includes Connection Settings, Security, and Access Filters.	Connection Description Connection Settings Connection Pool Security Connection Pool Connectio	ave
Vieteu Irep? V	Access Level Public 🔓 🔘 Allow only specified users, with required role permissions, to access and use this connection for view creation, freehand SQL reports and Transformation Flows. Private 🛆 💿	
successful	System Administrator Delete Add Member	

There are two main options available:

- 1. Public: allow all users with required role permissions to access and use this connection for view creation and freehand SQL reports.
- 2. Private: allow only specified users, with required role permissions, to access and use this connection for view creation and freehand SQL reports.

If you set the data source to **private** you will then need to define specific users, or groups of users, to have access to the connection. Each user can be assigned one of the following levels of access;

- 1. Read: allows users to see views based on this data source in the data sources and views page, and when creating a report.
- 2. Update: allows users to create, edit, or copy either a view or freehand SQL report based on this data source, as well as the above Read level of access.
- 3. Delete: allows the user to Delete this data source connection, as well as both of the above Read and Update levels of access.

Access Filters

This list allows you to add new, and manage existing, access filters.

		—	
Connection	Connection		\times
Let's make this easy. You can edit and manage your data source connection parameters here. This includes Connection Settings, Security, and Access Filters. Reed help? Viait the Velowfin forum or	Connection Description Connection Settings Connection Pool Security Access Filters	^ ^ ^ ^ ^ ~	Save
ere looking for. Availability Available. The connection to this Data Source was successful.	Name None Found	Configure Reference Types Add	
	Usage Parameters Views and Content	<u>^</u>	

See Restricting Data with Access Filters for more information.

Usage Parameters

This section allows you to define some general settings related to the use of this data source.

Conr	nection	Connection			
Let's	make this easy.	Usage Parameters		^	
You c data : paran	an edit and manage your source connection neters here.	Max Rows Returned Specify if there should be a limit to the number of rows returned by que	ries run on this connection.	•	
This i Settir Filters	ncludes Connection Igs, Security, and Access S.	Max Rows Returned Define a limit for the number of rows returned by queries run on this connection.	10,000		
?	Need help? Visit the Yellowfin community or wiki to find the answers you are looking for.	Analysis Max Rows Returned Specify if there should be a limit to the number of rows returned by queries run on this connection when we are running analysis queries, such as Assisted Insights and Signal analysis.			
~	Availability Available. The connection to	Writable Specify if the system can write to this database, rather than just read.			
	this Data Source was successful.	Time zone Specify the time zone associated with this database connection and	Australia	~	
			Sydney (+10:00)	×	
		Broadcast Specify if content based on this connection can be broadcast.		•	
		Subscribe Specify if content based on this connection can be subscribed to.		•	
		Data Profiling Data Profiling is available in views using this data source.		•	
		Client Data Source			
		Inherit Access Filters from client source Inherit Access Filters from client source			
Na	ime	Description			
Мах	Max rows returned Enable this toggle to limit the total rows returned by a database query. This ensures system performance is not in case a query returns a large result.			em performance is not compromised	
Max rows returned (limit) Specify a maximum number of rows that can be returned from a database base, if the above para can also be viewed and modified in the report builder.			ove parameter is enabled. This limit		

Analysis max rows	Enable this toggle to limit the total rows returned by a database query during automated analysis.
Tetumeu	This configuration works similarly to the one above, however it is only specific to queries performed during automated analysis, i.e for Signals and Assisted Insights.
Analysis max rows returned (limit)	Specify a maximum number of rows that can be returned from a database base, if the above parameter is enabled. This limit can also be viewed and modified in the report builder when editing an auto analysis report.
Writable	Enable this to make your database writable so data can be saved into it. This is suitable for Caching and Data Transformations that require the result to be outputted to a source.
	Note: This is not supported by all databases. Yellowfin performs a test after saving to ensure your database is writable.
CSV default	Choose this data source to be the default one to load CSV data into. This can only be possible if the source is writable. Note that only a single source can be assigned as the default at a time.
Time zone	Select a suitable time zone for this data source connection. This is ideal for scheduling.
Broadcast	Enable this to permit broadcasting data based on this data source connection. Content broadcasting will only be supported, if this is enabled.
Subscribe	Enable this to permit personal broadcasting data based on this data source connection.
Data profiling	Enable this to permit data profiling at the view level.
Inherit Access Filters from client source	Enable this to inherit access filters configured in client organizations. This is suitable if your client org has its own database repository, and you have access filters to restrict data access.

Views & Content

This allows you to view a list of content that has been created based on this data source connection.

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Security			
		6 ^	
Access Filters		^	
Usage Parameters		^	
Views and Content		~	
Content Usage		<u>^</u>	
Ski Team		117 Reports 🛛 🗸	
Availability Availability bits Datas Source was successful:	Agency Benchmark Top N Agencies compared to all other Agencies by demographic		
	Agency Sales over Time View agency sales by agency type over time.		
	Agency Sales over Time View agency sales by agency type over time.		
	Athlete An athlete KPI report used to highlight KPI dashboard tab functionality		
	Access Files Usage Parameters Views and Content Ski Team	Access Filters Usage Parameters Views and Content Content Usage Ski Team Image: Content Usage Ski Team Image: Content Usage Ski Team Image: Content Usage Image: Content Usage Ski Team Image: Content Usage Image: Content Usage	Access Filters A Usage Parameters A Views and Content Agency Benchmark Content Usage Ski Team 117 Reports A Agency Benchmark Top N Agencies compared to all other Agency Sales over Time Use agency sales by agency type over time. Agency Sales over Time View agency sales by agency type over time. Agency Sales over Time View agency sales by agency type over time. Agency Sales over Time View agency sales by agency type over time. Agency Sales over Time View agency sales by agency type over time.