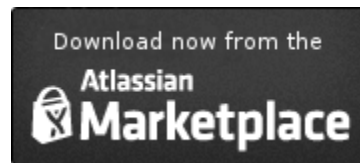
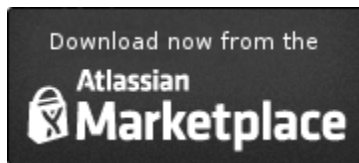


Release Notes 2.10 - Formulas and Joint Tables

Highlight of the release

- Formulas
- Joint Tables (augmenting a read-only table with comments)
- Open-source dialects
- Create from the Create dialog
- Move storage for queries
- New pricing






[Play SQL Spreadsheets](#)

[Play SQL Base](#)

Introducing Formulas

We're introducing an Excel-like language for formulas at a cell level. Have you ever wanted to generate a value instead of writing it?

...	First column	Second column	Email	+
1	Tom	Graham	tom.graham@gmail.com	
2	Paul	Dubrowski	= LOWER(firstcolumn)+'.'+LOWER(secondcolumn)+'@gmail.com'	
3	Henri	Bawni		
+				

LOWER(string)
=> Returns the lower-case value of the string

Parameters:

- string: STRING.

Ergonomy was a focus for this feature. We wanted users to instantly be able to write formulas. They can discover functions by typing keywords. If they know "MATCH()" in Excel, simply typing the name will suggest the "LOOKUP" function in Play SQL. We also help them autocomplete column names or table names:

...	Model	OS	OS reference	+
1	Xiaomi Mi3 discount	Android 4.4	1	
2	iPhone 6	iOS 8, upgradeable to iOS 8.3	2	
3	iPhone 6 Plus	= mobileos.name:ID=osreference	2	
4	Samsung Galaxy S5			
5	Samsung Galaxy Note 4			
6	Sony Xperia Z3			
7	Micromax Canvas Knight A350			
8	Karbons Titanium Hexa			
+				

?
↶
✓

- Column "OS" (os)
- Column "OS reference" (osreference)
- FIND: Returns the 1-based position of a substring in the text, or 0 if not found
- ROUND: Returns the rounded value (to the closest)

Pasting the formula on the full column will apply it to all visible cells. It is not possible yet to apply the formulas to future cells or non-visible cells, and we'll work on this for the next version.

More information about the formula language: See [Formulas 2](#).

Note about Totals and CLF (Column-Level Formulas)

Users used to be able to write SQL formulas in the totals and at a column level. Those weren't popular, since they didn't have autocomplete and weren't easy to use. They are still available in this version under the name "CLF formulas". We plan to migrate them to the easier, new language in a future version.

Play SQL still supports external modification by other SQL tools. Formulas will be executed if the program hits the proper REST resource after update.

Augment read-only data with Joint Tables


Some data is read-only. It could come from your CRM or from another internal tool. It has always been possible to display it in Play SQL. Now you can even add columns to comment it!

...	Name	Address	#	Comments
1	Item 1	Address 1	1	This half-table is editable
2	Item 2	Read-only value from CRM		
3	Item 3	Address 3		
4	Item 4			
5	Item 5			
6	Item 6			
7	Item 7			
8	Item 8			

Rows on the right-hand side are created on request, when the user starts typing or clicks the + / - buttons:

...	Model	OS	Price	#	Comment	Status
1	Xiaomi Mi3 discount	Android 4.4	\$ 321.49	1		
2	iPhone 6	iOS 8, upgradeable to iOS 8.3	\$ 590.00			
3	iPhone 6 Plus	iOS 8.3	\$ 680.91	+		
4	Samsung Galaxy S5	Android Android KitKat 4.4.2 upgradeable 5.0 Lollipop	\$ 404.98			
5	Samsung Galaxy Note 4	Android Android KitKat 4.4.4 upgradeable 5.0 Lollipop	\$ 546.06			
6	Sony Xperia Z3	Android Android KitKat 4.4.4, Android Lollipop upgrade planned	\$ 463.00			
7	Micromax Canvas Knight A350	Android Android KitKat 4.4.2/ Android Jellybean 4.2.2	\$ 299.00			
8	Karbons Titanium Hexa	Android Android KitKat 4.4.4 upgradeable 5.0 Lollipop	\$ 315.00			

It takes a few steps:

- [With Postgres 9.3, create a Foreign Table](#). The system administrator sets up the database to display contents from an external source as if it were a local table.
- Create a spreadsheet named "Comments for my foreign table". Make sure you give it a "foreign key" column of type Integer. The ID of the read-only record will be written in this column by Play SQL. For example, the table can contain 3 columns: ID, Name (text), FK (integer).
- Create a Joint Table, where you specify the read-only table and the "Comments" table.
-  Done! Users can enter data in the Comments table and see it alongside the read-only data, as above.

Open-source dialects

The dialect is the language used by programs to connect to the database. Specific dialects were created for Play SQL since no other dialect could provide access to table metadata. We're happy to open-source them today.

There is no immediate change for users, since all current users have Postgres. Customers who have a strong desire to support MySQL, Oracle or MS SQL Server can check out the API and contribute to the project themselves. We'd be pretty happy if it happens, or if the library is reused in another open-source project. Dialects for Play SQL can be developed internally or distributed through the Atlassian Marketplace, independently from us, so there is an opportunity to share the costs of development.

Dialects are divided by capabilities, and Play SQL reports which dialects are installed on your instance of Confluence:

For information - Available dialects on this instance:

	Read-Only	Read-Write	Autocomplete	Monitoring
PostgreSQL	✓	✓	✓	✓
HSQLDB	✓	✓	✓	✗
MySQL Unsupported	✓ *	✗	✗	✗
Generic	✓ *	✗	✗	✗
Oracle Unsupported	✓ *	✗	✗	✗

* This dialect has not been verified as "complete" by Play SQL.

Only Postgres has full transactions over DDL. MySQL, MS SQL Server and Oracle don't have support for transactional DDL. Therefore **it will never be possible to implement full read-write capabilities in other vendors than Postgres**. We've always relied on it because it's open-source, it has all the features we've always dreamt of, and it has a well-designed structure.


Contribute to the Dialects project on Bitbucket





Create experience

We've improved the Create experience by adding Play SQL to the Create dialog:

Play SQL Spreadsheet or Query

 **Spreadsheet**
Spreadsheets store new data. It can be displayed on the pages of the space.

 **Query**
Display data from several tables. Write in the SQL language.

 **Joint Table**
Keep the original data unmodified. Add comments of your own, or dates or figures.

About this blueprint

Start with a Spreadsheet. Add data. If you need fancy custom reports to merge data from several tables, use Queries. Finally, Joint Tables let you join two tables with edition features.

[Back](#) [Next](#) [Close](#)

Query storage

There is one technical change on this release: On read-write datasources, queries are stored in the database. We find that this is more consistent with the user experience when a new space opens an existing datasource.

The impact for Play SQL Base is, it keeps storing queries in Confluence metadata. Play SQL can actually read both. Queries in the database are numbered above 1000.

New pricing!

We're happy to announce a change of pricing. We've noticed that small instances provided a negligible income for us. So we simply decided to lower their price to almost-free: \$10 for the first 50 users!

	Tier	Old price	New price
Privilege tier	10 Users	\$29	\$10
Privilege tier	25 Users	\$198	\$10
Privilege tier	50 Users	\$398	\$10
Normal price	100 Users	\$798	\$698
Normal price	250 Users	\$1398	\$898
Enterprise	500 Users	\$3990	\$3990
Enterprise	2000 Users	\$4990	\$4990
Enterprise	10,000 Users	\$4990	\$4990
Enterprise	10,000+ Users	\$4990	\$4990

Obviously the model is that larger companies are paying for smaller ones, but the maximum is \$8 per user. Besides, driving more evaluations for small instances will develop the ecosystem around Play SQL Spreadsheet.

And more...

We haven't made a major release for a few months because the formulas story had several chapters that needed to be complete before publishing. We've made several small improvements about keyboard navigation and edition.



Upgrade guide for system administrators

Please read [Release Notes 2.10 - Upgrade Guide](#) for more information about technical points.

Issue list

Key	Summary	T	Status	Resolution	Component /s
PLAYSQL-137	In 2.10, Queries can't use the ID and POSITION columns in some conditions		CLOSED	Resolved	Query
PLAYSQL-136	2.10-beta: "Tables" short link		CLOSED	Resolved	
PLAYSQL-134	Insert saved query dropdown is empty		CLOSED	Resolved	Query
PLAYSQL-132	User/Page Picker should not display its internal representation		CLOSED	Resolved	
PLAYSQL-130	Blueprint for spreadsheet		CLOSED	Resolved	
PLAYSQL-129	Store the queries in the database		CLOSED	Resolved	Query
PLAYSQL-123	Queries where you can write		CLOSED	Resolved	
PLAYSQL-122	Row-level formatting		CLOSED	Resolved	
PLAYSQL-120	Formulas similar to Excel		CLOSED	Resolved	
PLAYSQL-119	Pluggable dialects		CLOSED	Resolved	
PLAYSQL-110	Column Properties glitches		CLOSED	Resolved	
PLAYSQL-107	Play SQL Forms is windowed to the 50 first records		CLOSED	Resolved	Forms
PLAYSQL-78	Remove the DB ID and red cell in the legacy macro		CLOSED	Won't Fix	
PLAYSQL-43	Cannot compose formulas		CLOSED	Cannot Reproduce	Spreadsheet
PLAYSQL-35	Improve the error message when a cell can't be saved		CLOSED	Resolved	Spreadsheet


[15 issues](#)

Upgrade notes

- If you upgrade from Play SQL 1.4.1: Please upgrade to 2.3.x first, otherwise your queries will be unavailable. If you've upgraded too soon, please reinstall Play SQL 2.3.x, then upgrade to the latest version.

- If you upgrade from Play SQL 2.6, there are new dialects instead of Generic/Unsupported, for those who don't use PostgreSQL. Please switch to:
 - Oracle (Unsupported)
 - MySQL (Unsupported)
 - The only officially supported database is PostgreSQL.
- If you upgrade from Play SQL 2.6, there are new requirements:
 - Requires Java 7,
 - Requires PostgreSQL 9.0 (Query monitoring requires 9.2, Foreign Tables require 9.3),
 - Requires Confluence 5.3.
- If you upgrade from Play SQL 2.9, there are schema changes:
 - You may wish to back-up your database before upgrading.
 - See [Release Notes 2.10 - Upgrade Guide](#) for more information,

Known issues

Key	Summary	T	Status	Resolution
PLAYSQL-143	MySQL: Database information is disabled		CLOSED	Resolved

[1 issue](#)

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