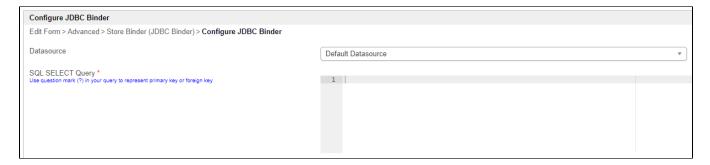# JDBC Form Binder

Definition
JDBC Form Binder allows you to customize how form data is stored and/or loaded, either from Joget or custom database via user-defined SQL statements. Note that, as a **load** binder, you only need to configure the datasource and SELECT query ; as a **store** binder, you will also need to write SQL for INSERT, UPDATE, and DELETE.

New Feature
This is a new feature in Joget Workflow v6.

Configure JDBC Binder

Edit Form > Advanced > Store Binder (JDBC Binder) > **Configure JDBC Binder**

Datasource   Default Datasource

SQL SELECT Query *
Use question mark (?) in your query to represent primary key or foreign key

Figure 1: JDBC Form Load Binder Properties

Name	Description
Datasource	- Custom Datasource - Default Datasource By selecting **Default Datasource**, the database your Joget is currently using will be selected.
Custom JDBC Driver	Custom JDBC Driver. This field is required when **Custom Datasource** is selected in **Datasource** above.
Custom JDBC URL	Custom JDBC URL. This field is required when **Custom Datasource** is selected in **Datasource** above.
Custom JDBC Username	Custom JDBC Username. This field is required when **Custom Datasource** is selected in **Datasource** above.
Custom JDBC Password	Custom JDBC Password. This field is required when **Custom Datasource** is selected in **Datasource** above. ⓘ **Test the connection parameters** Click on the "Test Connection" button at the bottom of the page to quickly test out your configurations.
SQL SELECT Query	`SELECT * FROM app_fd_table WHERE id = ?`

Configure JDBC Binder

Edit Form > Advanced > Load Binder (JDBC Binder) > **Configure JDBC Binder**

Datasource	Custom Datasource ▼
Custom JDBC Driver * Eg. com.mysql.jdbc.Driver (MySQL), oracle.jdbc.driver.OracleDriver (Oracle), com.microsoft.sqlserver.jdbc.SQLServerDriver (Microsoft SQL Server)	com.mysql.jdbc.Driver
Custom JDBC URL *	jdbc:mysql://localhost/jwdb?characterEncoding=UTF8
Custom JDBC Username *	root
Custom JDBC Password	
SQL SELECT Query * Used to decide an insert or update operation. Use syntax like {field_id} in query to inject submitted form data.	1
SQL INSERT Query * Use syntax like {field_id} in query to inject submitted form data.	1
SQL UPDATE Query * Use syntax like {field_id} in query to inject submitted form data.	1
SQL DELETE Query * Used to delete deleted form data in Grid element. Use syntax like {id} in query to inject form data primary key.	1

Figure 2: JDBC Form Store Binder Properties

Name	Description
Datasource	• Custom Datasource • Default Datasource By selecting **Default Datasource**, the database your Joget is currently using will be selected.
Custom JDBC Driver	Custom JDBC Driver. This field is required when **Custom Datasource** is selected in **Datasource** above.
Custom JDBC URL	Custom JDBC URL. This field is required when **Custom Datasource** is selected in **Datasource** above.
Custom JDBC Username	Custom JDBC Username. This field is required when **Custom Datasource** is selected in **Datasource** above.
Custom JDBC Password	Custom JDBC Password. This field is required when **Custom Datasource** is selected in **Datasource** above. ⓘ **Test the connection parameters** Click on the "Test Connection" button at the bottom of the page to quickly test out your configurations.
SQL SELECT Query	```SELECT * FROM app_fd_table WHERE id = '#requestParam.id#'``` **Note**: If you use JDBC in a form grid for load/save, be advised the SQL syntax is different from the above. Kindly download and view the sample app for JDBC in a form grid at the bottom of this page.

SQL INSERT Query	Use syntax like curly brackets **{field_id}** in query to inject submitted form data.
	
	``
	INSERT app_fd_table
	        (id,
	         c_name,
	         c_emailaddress,
	         c_contacttel)
	VALUES ({id},
	        {name},
	        {emailAddress},
	        {contactTel})
	``
	
	Note: Be advised JDBC load/save binders cannot be used if your form or form grid has file or image attachment field elements. You will need to use the default Multirow Form Binder in this circumstance.

SQL UPDATE Query	Use syntax like curly brackets **{field_id}** in query to inject submitted form data.
	
	``
	UPDATE app_fd_table
	SET id = {id},
	      c_name = {name},
	      c_emailaddress = {emailAddress},
	      c_contacttel = {contactTel}
	WHERE id = {id}
	``

SQL DELETE Query	Used in deleting form data records in Datalist/Grid element. Use syntax like curly brackets **{id}** in query to inject form data primary key ``` DELETE FROM app_fd_table WHERE id = {id} ```

Below are sample apps to demonstrate the use of JDBC Load and Save Binders:

- Example app using JDBC binders on Form APP_form_load_save_using_jdbc.jwa.
- Example app using JDBC binders on Form Grid APP_form_grid_with_jdbc_binder.jwa.
- Example app using JDBC binders for Oracle databases APP_example_form_jdbc_on_oracle_v6.jwa