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Article

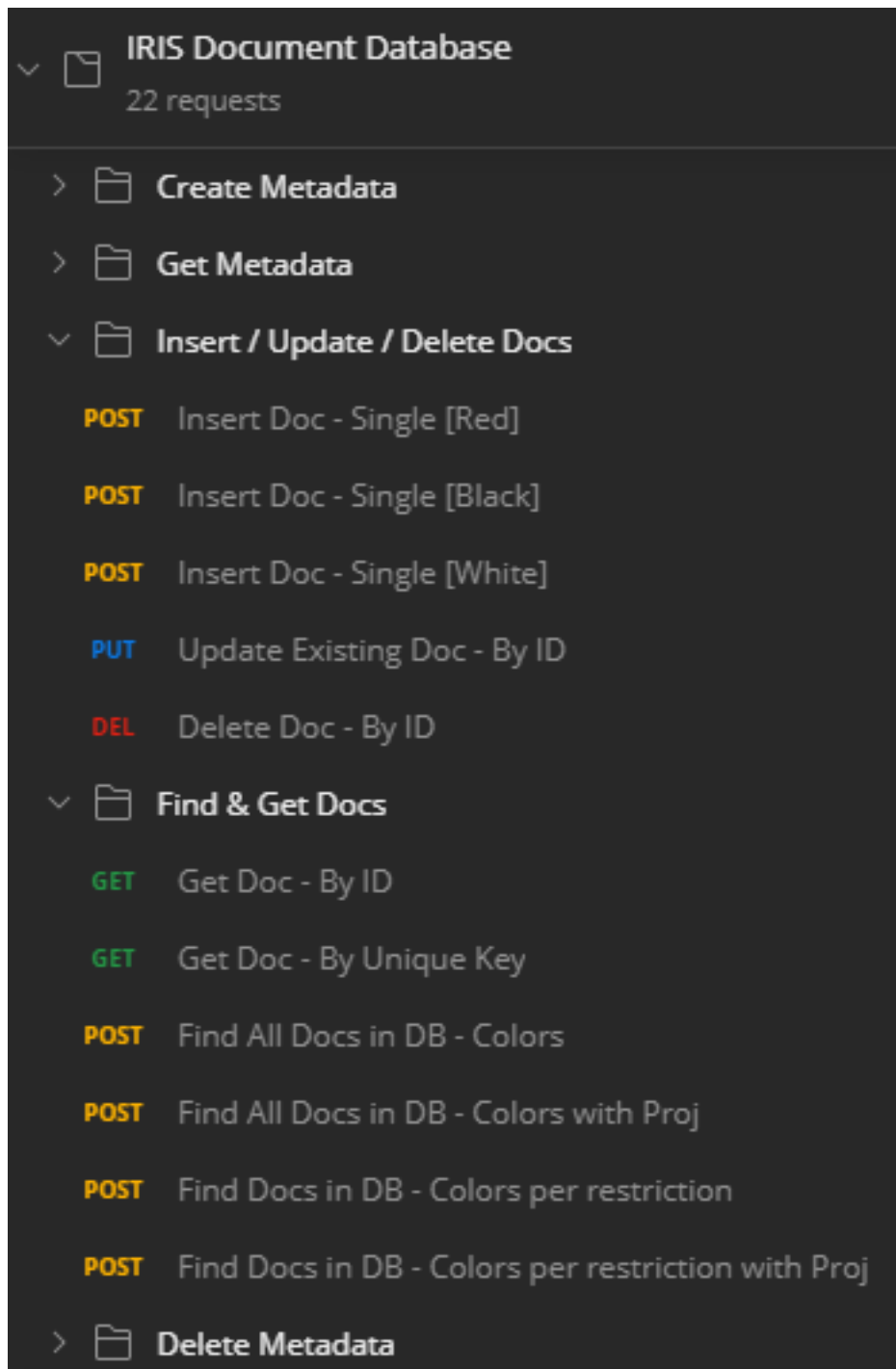
[Tani Frankel](#) · Jan 19, 2021 2m read

[Open Exchange](#)

## Document Database (DocDB) - Sample REST API Calls - Postman Collection

For the benefit of those who want to use the [Document Database](#) (DocDB) capabilities within InterSystems IRIS, and specifically the [REST API](#) it provides, I put together a [Postman Collection](#) that provides samples for several basic calls.

For example:



The example uses "Color" documents, e.g. Red, Blue, etc, using a sample JSON structure from [here](#).

The Collection includes calls of different "categories" -

- Create Metadata - create the database and related properties
- Get Metadata - understand what databases and properties are defined
- CUD - create/update/delete of Documents
- Find & Get Documents - retrieve documents according to ID or certain values or criteria
- Delete Metadata - delete properties or databases

The order in which the requests are in the Collection have some internal logic (e.g. first create the database and properties, then insert some data, then retrieve it), but of course you can use it in any order or changes you like.

The order also works well if running the Postman [Collection Runner](#). I added some basic [test scripts](#) that allow

Postman to display Passed or Failed status for each call.

For example:

Collection Runner		Run Results	Run Summary
<div><div>42</div><div>PASSED</div></div> <div><div>0</div><div>FAILED</div></div>		<h1>IRIS Document Database</h1> <div>No Errors</div> <div>a min ago</div>	
<div>Back</div>		1	
<div><div></div><div></div></div>	<div><div>POST</div>Create Database - Colors</div>		
	<div><div>PASS</div></div>	Status code is 201	<div>✓</div>
<div><div></div><div></div></div>	<div><div>PASS</div></div>	Created Colors class	<div>✓</div>
	<div><div>POST</div>Create Property - Color [Unique]</div>		<div>✓</div>
<div><div></div><div></div></div>	<div><div>POST</div>Create Property - Hex Code</div>		<div>✓</div>
	<div><div>GET</div>Get All Database in NS</div>		<div>✓</div>
<div><div></div><div></div></div>	<div><div>GET</div>Get Database - Colors</div>		<div>✓</div>
	<div><div>GET</div>Get Property - Color</div>		<div>✓</div>
<div><div></div><div></div></div>	<div><div>GET</div>Get Property - Hex Code</div>		<div>✓</div>
	<div><div>POST</div>Insert Doc - Single [Red]</div>		<div>✓</div>
<div><div></div><div></div></div>	<div><div>POST</div>Insert Doc - Single [Black]</div>		<div>✓</div>
	<div><div>POST</div>Insert Doc - Single [White]</div>		<div>✓</div>
<div><div></div><div></div></div>	<div><div>PUT</div>Update Existing Doc - By ID</div>		
	<div><div>PASS</div></div>	Status code is 200	<div>✓</div>
<div><div></div><div></div></div>	<div><div>PASS</div></div>	Updated Red Color with ID 1	<div>✓</div>
	<div><div>DELETE</div>Delete Doc - By ID</div>		<div>✓</div>
<div><div></div><div></div></div>	<div><div>GET</div>Get Doc - By ID</div>		<div>✓</div>
	<div><div>GET</div>Get Doc - By Unique Key</div>		<div>✓</div>

Please note the last call deletes all the document databases within a Namespace - so do not run this unless you really mean to... not manually and not as part of running the whole Collection.

In order to make the calls work on various environments I used Postman's [variables](#) feature.

This allows you to change the server name/IP, the port, and the namespace -

**EDIT COLLECTION**

Name  
IRIS Document Database

Description Authorization ● Pre-request Scripts Tests **Variables ●**

These variables are specific to this collection and its requests. [Learn more about collection variables](#)

	VARIABLE	INITIAL VALUE ⓘ	CURRENT VALUE ⓘ
<input checked="" type="checkbox"/>	Port	52773	52773
<input checked="" type="checkbox"/>	Server	localhost	localhost
<input checked="" type="checkbox"/>	Namespace	USER	USER
	Add a new variable		

So every call looks something like this:

```
http://{{Server}}:{{Port}}/api/docdb/v1/{{Namespace}}/db/Colors
```

You would also probably need to adapt the authentication part.

I currently have "Basic Authentication" with simply 'SuperUser' and 'sys' -

### EDIT COLLECTION

Name

IRIS Document Database

Description   **Authorization**   Pre-request Scripts   Tests   Variables

This authorization method will be used for every request in this collection. You can override this by specifying one in the request.

**TYPE**

Basic Auth

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Heads up! These parameters hold sensitive data. Please keep this data secure while working in a collaborative environment. We recommend using variables. [Learn more about variables](#)

Username: SuperUser

Password: sys

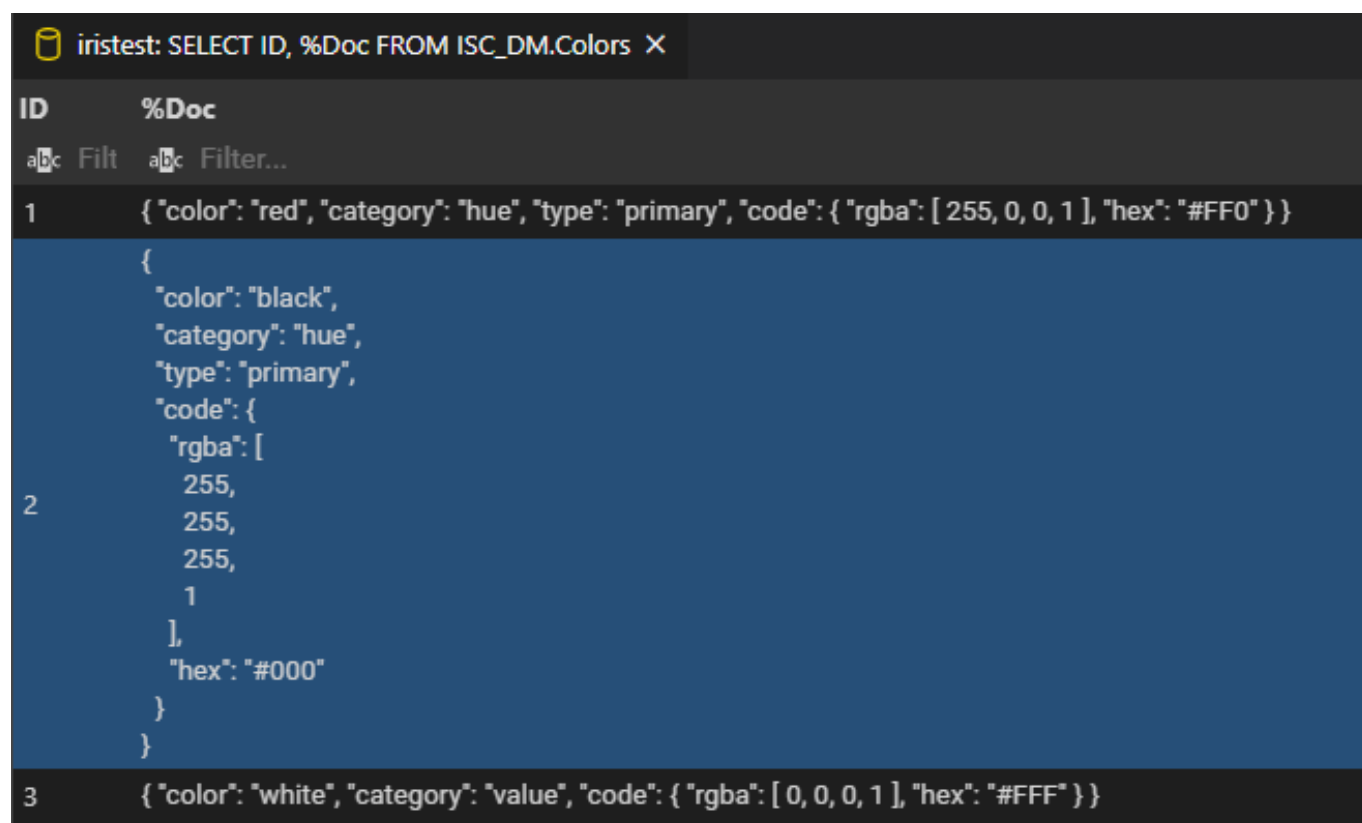
☒ Show Password

Just to add a "Multi-Model" twist to this, here's also an example of accessing this data via SQL -

This is the table structure (as viewed in the SQL Tools extension in VSCode):

ISC_DM
Colors
ID INTEGER
%Doc VARCHAR(4096)
%DocumentId INTEGER
%LastModified TIMESTAMP
color VARCHAR(50)
hexCode VARCHAR(50)

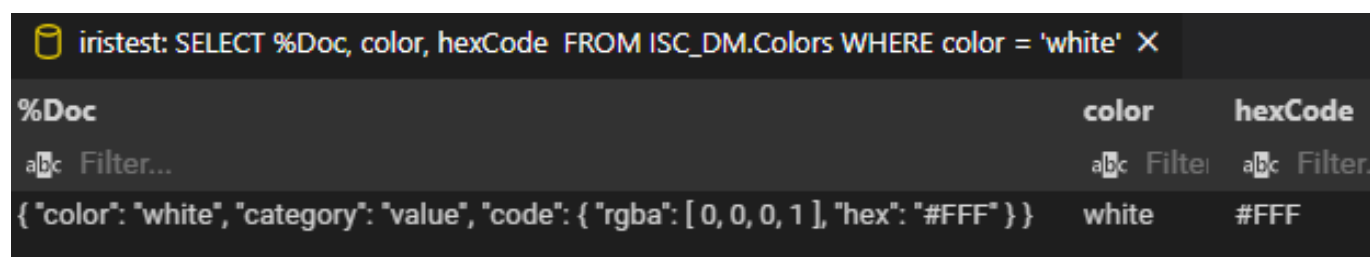
This is a simple SELECT result:



The image shows a Postman REST client interface. At the top, the URL bar contains 'iristest: SELECT ID, %Doc FROM ISC\_DM.Colors' with a close button. Below the URL bar, the response is displayed in a JSON format. The response is a list of three objects, each representing a color entry. The first object has ID 1 and a red color. The second object has ID 2 and a black color. The third object has ID 3 and a white color. The JSON is formatted with syntax highlighting.

ID	%Doc
1	{ "color": "red", "category": "hue", "type": "primary", "code": { "rgba": [ 255, 0, 0, 1 ], "hex": "#FF0" } }
2	{ "color": "black", "category": "hue", "type": "primary", "code": { "rgba": [ 255, 255, 255, 1 ], "hex": "#000" } }
3	{ "color": "white", "category": "value", "code": { "rgba": [ 0, 0, 0, 1 ], "hex": "#FFF" } }

And here's a SELECT with a WHERE clause on one of the properties we defined:



The image shows a Postman REST client interface. The URL bar contains 'iristest: SELECT %Doc, color, hexCode FROM ISC\_DM.Colors WHERE color = 'white''. Below the URL bar, the response is displayed in a tabular format. The response is a single row with three columns: %Doc, color, and hexCode. The values are: { "color": "white", "category": "value", "code": { "rgba": [ 0, 0, 0, 1 ], "hex": "#FFF" } }, white, and #FFF. The table has a dark background with light text.

%Doc	color	hexCode
{ "color": "white", "category": "value", "code": { "rgba": [ 0, 0, 0, 1 ], "hex": "#FFF" } }	white	#FFF

[#Data Model](#) [#Document Data Model \(NoSQL\)](#) [#Multi-model](#) [#REST API](#) [#InterSystems IRIS](#) [#InterSystems IRIS for Health](#)  
[Check the related application on InterSystems Open Exchange](#)

Source

URL: <https://community.intersystems.com/post/document-database-docdb-sample-rest-api-calls-postman-collection>