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Making API calls

You can make restful API calls from your triggers and stored procedures like this:

```
CALL parasql_http(
    'POST',  -- enum: GET, POST, PUT, DELETE
    'https://www.mydomain.com/endpoint?param1=value1...',  -- request URL
    JSON_OBJECT(...your post data...),  -- optional request body in JSON format
    'MyCallback',  -- optional callback procedure
    NULL,  -- optional metadata in JSON format
    NULL);  -- optional HTTP headers in JSON format
```

- The HTTP request will be made *after* the calling transaction commits.
- Results, including any errors, will be logged in the *parasql_http_request* table (see below). You should query this table for diagnostic information.
- If you specify a callback procedure it will called with the following parameters:

```
respCode INTEGER, respBody JSON, respHeaders JSON, optMetadata JSON
```

Working with JSON data

There are a large number of functions available for parsing and generating data in JSON format. See the documentation [here](#).

The most heavily used JSON functions are:

- [JSON_TABLE()](#) to map a JSON document to an SQL table.
- [JSON_VALUE()](#) to extract a value from a JSON document.
- [JSON_OBJECT()](#) to create a JSON object.
- [JSON_ARRAY()](#) to create a JSON array.
- [JSON_ARRAY_APPEND()](#) to append values to a JSON array.
- [JSON_LENGTH()](#) to get the length of a JSON array.

HTTP Request Table

This table logs all HTTP request/response data. You can query it for diagnostic purposes.

parasql_http_request		
Column Name	Datatype	Comments
id	BIGINT NOT NULL AUTO_INCREMENT PRIMARY KEY	Unique request identifier.
request_timestamp	DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP	Timestamp of request.
request_method	ENUM ('GET','POST','PUT','DELETE') NOT NULL DEFAULT 'GET'	Request method.
request_url	VARCHAR(2048) NOT NULL	The request URL.
request_headers	JSON	Optional. HTTP request headers in JSON format.
post_data	MEDIUMTEXT	Optional. Should be called *request_body*. If this value is NOT NULL then 1) a Content-Length header will be computed and added automatically and 2) a Content-Type header will be added based upon the *post_data_encoding* column value.
post_data_encoding	VARCHAR(255)	Optional. The Content-Type header if post_data is NOT NULL. Default is *application/x-www-form-urlencoded* if not specified. *application/json* is the most common alternative and the default for requests made via the parasql_http() procedure.
response_status	INT	HTTP response status code or -1 if an exception is thrown before a response is received.
response_headers	JSON	HTTP response headers in JSON format.
response_body	MEDIUMTEXT	HTTP response body or the exception text if response_status = -1
callback_procedure	VARCHAR(64)	Optional. The name of the stored procedure to be called for handling the response.
callback_status	VARCHAR(1024)	Result of callback execution: either COMMIT or ROLLBACK with an associated error message.
opt_metadata	JSON	Optional. User defined metadata. Useful for linking request/response behavior and diagnostic purposes.
version	INT	Internal version number. Determines how request/response parameters are processed.