



# cubeSQL

## JSON support

# JSON

In order to try to supports as much heterogeneous clients as possible cubeSQL fully supports the JSON open standard protocol. JSON is a lightwave text based protocol and is built-into any major language (like PHP, Ruby, LiveCode and so on). In this version only JSON over TCP/IP is supported, next version will also support JSON over HTTP.

For a complete and working JSON implementation we strongly suggest you to take a look at the cubeSQLServer.php class.

For basic operations are supported by our JSON implementation, connect, execute, select and disconnect.

## CONNECT

```
{
    "command": "CONNECT",
    "username": "admin",
    "password": "admin",
    "randpool": "12345"
}
```

This is the first command that is required in order to open a JSON connection with the server. username is SHA1\*(randpool + username), password is BASE64(SHA1(SHA1(password))). randpool is any random integer array.

+ is the string concatenation symbol).

\*SHA1 for username is in HEX mode

In case of error any JSON command returns:

```
{
    "errorCode": "7047",
    "errorMsg": "An error occurred..."
}
```

In case of a successful execution errorCode is set to 0.

## EXECUTE

This command executes an sql statement on the server:

```
{
    "command": "EXECUTE",
    "username": "UPDATE foo SET coll='test';"
```

```
}
```

## **SELECT**

This command executes an sql query on the server and returns a cursor using the JSON protocol:

```
{  
  "command": "SELECT",  
  "username": "SELECT * FROM foo;"  
}
```

## **DISCONNECT**

This command close current connection with the server:

```
{  
  "command": "DISCONNECT"  
}
```