Subject: Multi servers and PostgreSQL
Posted by pdv on Wed, 06 Feb 2019 17:46:00 GMT
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Hi,

I'm trying to access some existing PostgreSQL databases on macos with Radicore.

Since I want to keep my existing (pgsql)databases unmodified, Radicore is loaded in a separate (pgsql)database and I must use several connections. In my case these are all hosted by localhost and this poses a problem.

The function &_getDBMSengineByHost ($dbhost) in dict_databse_s01.class.inc loops over servers until a matching host is found and then breaks the loop, so that of e.g. 2 different (pgsql) servers on localhost, only one can be reached.

I solved this by passing the server(number) instead of the host: function &_getDBMSengineByServer ($server) and then no looping is needed since $server can directly be used as an index in the $servers array.

Regards,

Patrick

Subject: Re: Multi servers and PostgreSQL
Posted by AJM on Thu, 07 Feb 2019 10:02:39 GMT
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PostgreSQL is peculiar in that it has the hierarchy server->database->schema->table instead of the common server->database->table. Tables are known as "database tables" and not "schema tables", so the introduction of a level between "database" and "table" is clearly non-standard and IMHO clearly wrong. I have yet to see a method of switching between one database and another in postgres within the same connection, so Radicore does not support this. This means that all the schemas which you wish to access *MUST* reside in the same database. It is possible to open multiple connections to different servers, but it is not possible for a single database transaction to span multiple connections.

Subject: Re: Multi servers and PostgreSQL
Posted by pdv on Thu, 07 Feb 2019 12:46:18 GMT
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Toni,

As explained in the other thread I want to open 2 connections in this case to 2 pgsql-databases on

the same postgresql server. When I imported the databases (schemas) I only got the schemas of servers[0]. I explained why in my original message.

I think this will also be the case when e.g. accessing a MySQL server as server[0] and a PostgreSQL server as server[1], if they are both on localhost. I think that the current code assumes that different servers are on different hosts.

Regards,

Patrick

Subject: Re: Multi servers and PostgreSQL
Posted by AJM on Fri, 08 Feb 2019 10:08:18 GMT
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Can you supply me with your changed script so that I can test it?

Subject: Re: Multi servers and PostgreSQL
Posted by pdv on Sat, 09 Feb 2019 19:17:16 GMT
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Please find herewith the modified dict_database_s01.inc and the corresponding patch file.

File Attachments
1) Archive.zip, downloaded 863 times

Subject: Re: Multi servers and PostgreSQL
Posted by AJM on Mon, 11 Feb 2019 09:45:55 GMT
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The amended code which you sent me actually contains a bug. The first argument in the _loadDatabases() method you changed from $dbhost to $server, yet the first line of the method is still referring to $dbhost. As it has not been defined the first condition always fails.

When using the multi-server option you *MUST* supply a value for PGSQL_dbname in each entry of the $servers array.
