Subject: Defining composite primary key
Posted by Giorgio on Fri, 28 Aug 2015 14:47:11 GMT
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Hi there,
in the database I am managing, several tables have composite primary key. I tried to describe those keys in the .sch file adding the PRIMARY KEY keyword to each field the key is composed by, but it did not work. I searched the forum and found only this http://www.ultimatepp.org/forums/index.php?t=msg&goto=53 38& thread. Maybe the issue has been already addressed in other threads, as it is a common situation in db. Could anyone point me to a solution?
Regards,
Giorgio

Subject: Re: Defining composite primary key
Posted by dolik.rce on Fri, 28 Aug 2015 18:29:59 GMT
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Giorgio wrote on Fri, 28 August 2015 16:47Hi there,
in the database I am managing, several tables have composite primary key. I tried to describe those keys in the .sch file adding the PRIMARY KEY keyword to each field the key is composed by, but it did not work. I searched the forum and found only this http://www.ultimatepp.org/forums/index.php?t=msg&goto=53 38& thread. Maybe the issue has been already addressed in other threads, as it is a common situation in db. Could anyone point me to a solution?
Regards,
Giorgio

Hi Giorgio,

As you probably noticed in the linked thread, there is also DUAL_PRIMARY_KEY(k1, k2). For postgres, there is even PRIMARY_KEY_LIST(name, keys). Not sure why it is not implemented for other backends.

If you need more then two columns in your composite key (and you're not using postgres), then you can introduce your own macro. It is relatively easy just look at how your backend implements DUAL_PRIMARY_KEY. E.g. For MySql, look at MySql/MySqlSchema.h:
#define DUAL_PRIMARY_KEY(k1, k2) INLINE_ATTRIBUTE(", primary key (" #k1 ", " #k2 ")")
So you can just define similary for four columns (must be defined before including sch_schema.h, sch_header.h or sch_source.h):
#define QUADRUPLE_PRIMARY_KEY(k1, k2, k3, k4) INLINE_ATTRIBUTE(", primary key (" #k1 ", " #k2 ", " #k3 ", " #k4 ")")
I haven't tested this right now, but I have made similar augmentations for my code in the past and it worked just fine If you hit any problem, just post what code you got so far and where you got stuck.

Best regards,
Honza

Subject: Re: Defining composite primary key
Posted by Giorgio on Tue, 01 Sep 2015 06:10:47 GMT
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I did not notice that the answer was already there , thanks!