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Plans

Hans Wenzel Geant 4 Validation repository weekly meeting 18th November 2015

name tex	
xdes	VARCHAR(50),
ydes	VARCHAR(50),
zdes	VARCHAR(50),
nbinsx	Integer,
min×	real,
maxx	real,
bincenterx	real[],
binwidth×	real[],
nbinsy	Integer,
miny	real,
maxy	real,
bincentery	real[],
binwidthy	real[],
binvalues	real[][],
errorup	real[][],
errorlow	real[][]
);	



INSERT	<pre>INTO public.Histogram2D name, xdes, ydes, zdes, nbinsx, minx, maxx, bincenterx, binwidthx, nbinsy, miny, maxy, bincentery, binwidthy, binvalues, errorup, errorlow)</pre>	
	<pre>('test', 'x-axis', 'y-axis', 'sigTot[mb]', 3, 0, 3, '{0.5,1.5,2.5}', '{1.,1.,1.}', 3, 0, 3, '{0.5,1.5,2.5}', '{1.,1.,1.}', '{{341,314,290},{342,312,292},{343,313,293}}', '{{441,414,390},{442,412,392},{443,413,393}}', '{{241,214,190},{242,212,192},{243,213,193}}'</pre>	



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Proposed short term work Plan

- Storage Solution:
 - Postgres: We can store everything we need in the Postgres database→ evolution of the current schema.
 - Tables map easily to simple data objects [float, strings, arrays ..] that can be expressed in any language (Java, C++, python)
 - Classes can be easily serialized into blobs → but not a feature we have to or really need to use.
- Proposal:
 - For now accept postgres as storage solution.
 - Finalize the schema and modify Java API accordingly
 - Provide C++ API mirroring Java API

