

How to Improve Java ORM SQL Performance on DB2 for z/OS

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For the past 30 years, our focus as DB2 for z/OS database administrators has been on the support of COBOL programs with static queries that were relatively easy to control as they were identical throughout the business logic. Static SQL provided persisted access paths in the database system and the only thing we had to do was to make sure that these access paths were apt for all the situations the queries were used in. In the past decade a silent, but nevertheless in-depth revolution is taking place, as step by step object-oriented Java (and .NET) based applications are replacing the old COBOL programs. These applications do not rely on static SQL, but on dynamic statements that are generated by rather complex frameworks, that along with the larger usage of Java evolved also rapidly. In this article, a quick overview of the basics of Java SQL performance on DB2 for z/OS is presented. The idea is to give insight in the mechanisms driving dynamic SQL coding in Java.

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