

ANNOTATION

for the graduate work of Grytsuk Artem Serhiyovich
on the point: « Development of the GUI application for fine-tuning PostgreSQL
RDMS server»

Presented graduate work covers analysis of PostgreSQL server configuration and tuning. Classification and review of existing counterparts are presented. Advantages and disadvantages for each of them are covered. Key parameters which can influence server performance tremendously were analyzed as well. Based off of the gathered information GUI application was developed. Its main purpose is to optimize and automate the process of server configuration. User help module is also implemented. Another key feature is the system which detects existing hardware and uses that information to predict optimal configurations for the server.

Total volume of the work: 139 pages, main part – 73 pages, 26 illustrations, 11 tables, 18 bibliographic titles, 5 appendixes.

Keywords: PostgreSQL, SQL, optimization, database, DBMS, adjustment, graphical user interface, software, application.