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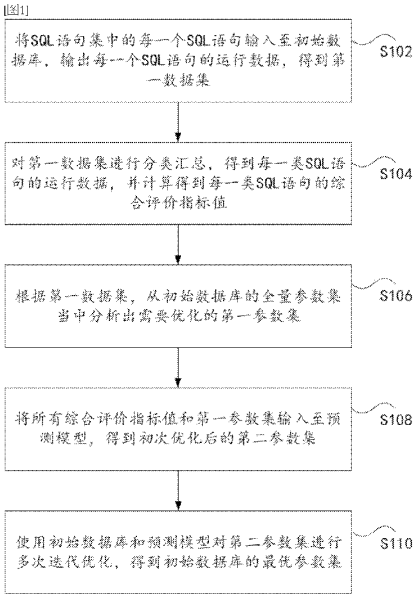
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(54) **Title:** METHOD AND APPARATUS FOR OPTIMIZING PERFORMANCE PARAMETERS OF DATABASE, AND ELECTRONIC DEVICE

(54) 发明名称: 数据库性能参数的优化方法、装置以及电子设备



S102 Input each SQL statement in an SQL statement set into an initial database, and output execution data of each SQL statement, so as to obtain a first data set

S104 Perform classification and summarization on the first data set so as to obtain execution data of each type of SQL statements, and obtain, by means of calculation, a comprehensive evaluation index value for each type of SQL statements

S106 On the basis of the first data set, analyze a first parameter set to be optimized from among a full parameter set of the initial database

S108 Input all comprehensive evaluation index values and the first parameter set into a prediction model, so as to obtain a second parameter set that has been subjected to initial optimization

S110 Use the initial database and the prediction model to perform multiple iterative optimizations on the second parameter set, so as to obtain an optimal parameter set of the initial database

(57) **Abstract:** A method and apparatus for optimizing performance parameters of a database, and an electronic device. The method comprises: inputting each SQL statement in an SQL statement set into an initial database, and outputting execution data of each SQL statement, so as to obtain a first data set (S102); performing classification and summarization on the first data set so as to obtain execution data of each type of SQL statements, and obtaining, by means of calculation, a comprehensive evaluation index value for each type of SQL statements (S104); on the basis of the first data set, analyzing a first parameter set to be optimized from among a

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full parameter set of the initial database (S106); inputting all comprehensive evaluation index values and the first parameter set into a prediction model, so as to obtain a second parameter set that has been subjected to initial optimization (S108); and using the initial database and the prediction model to perform multiple iterative optimizations on the second parameter set, so as to obtain an optimal parameter set of the initial database (S110).

(57) 摘要: 一种数据库性能参数的优化方法、装置以及电子设备。该方法包括：将SQL语句集中的每一个SQL语句输入至初始数据库，输出每一个SQL语句的运行数据，得到第一数据集（S102）；对第一数据集进行分类汇总，得到每一类SQL语句的运行数据，并计算得到每一类SQL语句的综合评价指标值（S104）；根据第一数据集，从初始数据库的全量参数集当中分析出需要优化的第一参数集（S106）；将所有综合评价指标值和第一参数集输入至预测模型，得到初次优化后的第二参数集（S108）；使用初始数据库和预测模型对第二参数集进行多次迭代优化，得到初始数据库的最优参数集（S110）。