

PREPARING THE ANALYSIS SERVER

It is recommended that you use a powerful, dedicated non-virtual server to perform the analysis process. The server hardware resources should be as similar as possible to the production server to avoid differences in SQL Server execution plans. Such differences might result in slightly less accurate analysis results, compared to the actual impact these recommendations will have on the production server.

To enable a more accurate replay of the queries, restore a copy of the production database, preferably a backup that was taken soon before the trace was performed. Make sure the analysis server has enough free disk space to accommodate the analysis process. It is recommended to have **at least three times** the size of the analyzed database where the database files reside to allow for multiple index validations. Also ensure enough free space for TempDB and for the database transaction log.

PREPARING A CLIENT COMPUTER TO RUN QURE

Qure is a highly demanding application that requires significant CPU, memory, and IO resources for its operations. It is highly recommended that the client computer be free of any concurrent activity during the analysis process. Ideally, a dedicated PC should be used. The measured duration of the batches may be influenced by concurrent activity on the client computer because the batches are executed from the client. This requires that the client consume the row sets generated by the server for the executed batches. Concurrent activity on the client computer may slow down the retrieval of row sets, thus affecting the duration measurements. If you cannot avoid concurrent activity on the client computer, be aware that the duration measurements may be less accurate. This fact will not affect other measured parameters, such as reads, writes, and CPU.