

In today's landscape, with a multitude of available database systems, it is often hard to choose which one would fit our needs best. In this thesis we focus on choosing a performant database system from a choice between PostgreSQL, Virtuoso, OrientDB, ScyllaDB, Couchbase, and RavenDB. We compare the static properties and features of said database systems, and we include a brief discussion on data extraction and transformation, for which we developed a helper library for Python. We then assess dataset import times into each database system. To determine the most efficient database, we measure query performance across multiple dataset sizes, and finally we offer a recommendation based on the results, and discuss further possible considerations.