

ABSTRACT

The aim of the project is to develop a SQL query processor that has the ability to validate and execute SQL DDL and DML statements. The processor checks the syntax given by the user and executes the statement by various file manipulations. Structured query language is a special purpose programming language designed for managing data in relational database management system (RDBMS). Originally based upon relational algebra and tuple relational calculus. Its scope includes data insert, query, update and delete, schema creation, modification and data access control.

The processor takes a SQL statement from the user. The DDL statements provide information about the information of the tables. The DML statements provide information about the data to be inserted or retrieved. The statement is checked for proper syntax and grammar and the validity of the statement is checked with the schema files.

After the syntax is checked, the statement has to be executed. The execution of the statement is reflected on the files. The files are maintained for both the schema and data. DML statements make its changes on the schema files and the DML statements affect the data files. The result of the execution is provided to the user of the system. In the case of select statements the outputs are displayed in a comprehensible manner.