Students in introductory database courses are often introduced to their first "declarative" programming language, "Structured Query Language" (SQL). SQL requires a different analysis approach than that used for languages with which these students are more familiar. Our application, "Database Query Analyzer" (DBQA), analyzes an SQL statement similar to how these more familiar languages are analyzed. DBQA is the first application of its kind to support complex SQL queries that have been shown to be among the most difficult for students to construct.