

# **Extending Query-by-Browsing (QbB) by Using Drill-Down for Joins**

by

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## **Abstract**

*Query-by-Browsing (QbB) is a form of 'intelligent' database interface which creates Structured Query Language (SQL) SELECT statements based on 'records of interest' as indicated by the user. An inherent strength of such a system is the capability to provide non-technical users with an interactive visualisation that allows for the generation and refinement of SQL statements without knowledge or understanding of the underlying syntax. To extend the concept of QbB, this dissertation focuses on the development of an advanced query tool which employs methods to visually expose all joins that exist within the database, thus allowing the creation of data rich visualisations. Another goal of this project is to create a visualisation that preserves the origins of the data, and structures the output in a manner which aids understanding and cognition. It is essential that such a tool has technical abstraction from the target data store so that it may be applied widely with minimum overhead to the end-user.*