

Précis system has been designed for text based searching over relational database. This system enables user to search requested data over whole database. Answer to these free-form queries is a synthesis of results containing not only information directly related to the query selections but also information implicitly related to them. Neither standard B-tree based indices nor text based indices are suitable for this purpose because we need to search requested data in all columns of all tables within the database. The goal of this thesis is to design and implement index structure, which will contain data from any number of columns and tables. This structure is based on inverted file. Implemented index supports boolean queries. Result documents are weighted and ordered by this weight. User interface of Précis index uses standard SQL queries to search for desired documents. Implementation of the index is created for Oracle Database server.