Index

Index expedites retrieval operations.

It slows down insert/update/delete operations.

The index values must be stored in sorted order.

When ~~index~~ a table is updated,
the index entries record no. need to be modified

Index is stored outside the table.

Requires additional storage space.
additional processing for updating
index entries for ~~any~~ changes
to the table.

Create index indexName
on Tablename(ColumnName).

Drop index indexName on Tablename(ColumnName)

For massive updates,
~~deletei~~ drop index
— Perform updates
— Rebuild index

Justification
for an index? $= \dfrac{\text{frequency of retrieval on}}{\text{frequency of update on}} \Big\{ \begin{matrix} \text{index} \\ \text{column} \end{matrix}$