Extensible Dynamic Hashing Index API
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Jan 23, 2017

Methods
ExtHash(tableId, searchKey)
    Constructor for an index for a specific table for a specific search key.
    Will CreateIndex if one doesn’t exist for the particular table and search key.

Search(searchKey)
    Method that returns an iterator over all indexed entries (tuples) that match the search
    key.

Insert(searchKey, tupleId)
    Method that returns the status of an insert operation of a tuple into the index.
    Bucket address and actual bucket splits are done in this method.

Delete(searchKey)
Delete(searchKey, tupleId)
    A method that, either deletes all tuples matching the search key, or just a specific tuple
    and search key combination, depending on what parameters are passed and returns a status.
    The coalesce operation is not implemented as it is assumed the database will only grow and
    such an operation would be redundant.

CreateIndex(tableId, searchKey, bool force)
    Method that creates the indexing hash structure for a particular searchKey on a
    particular table and returns the status of the operation. If the force parameter is set to true it will
    recreate the index hash structure from scratch. The hash function used for creating the indexing
    structure is read from the metadata in this method.

~ExtHash()
    Destructor for the ExtHash object.