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(define (make-table)
  (cons '*table* '()))

(define (empty-table? t) (null? (cdr t)))

(define (lookup key table)
  (let ((record (associ key (cdr table))))
    (if record
        (cdr record)
        #f)))

(define (associ key records)
  (cond ((null? records) #f)
        ((equal? key (caar records)) (car records))
        (else (associ key (cdr records)))))

(define (insert! key value table)
  (let ((record (associ key (cdr table))))
    (cond ((null? (cdr table))
           (set-cdr! table (cons (cons key value) '())))
          (record (set-cdr! record value))
          (else (set-cdr! table
                           (cons (cons key value) (cdr table)))))))

(define (delete! key table)
  (cond ((null? (cdr table)) #f)
        ((equal? (caadr table) key) (set-cdr! table (cddr table)))
        (else (delete! key (cdr table)))))

```