Smarterator™
{  
  Smarterator™(relationID, transactionID); // Default Constructor
  Smarterator™(Smarterators[], stepFunction(), transactionID); // Nested SI Constructor

  array<int> <- getAttributeIDs(); // Returns an array of attribute IDs.

  // The following functions is used by the Transaction Manager to determine
  // how a query should be handled. The options for status are as follows:
  // 1 (start) - The query requested a start of transaction
  // 2 (commit) - The query requested a commit of the current transaction
  // 3 (rollback) - The query requested a rollback of the transaction
  // 4 (normal) - The query is a read or write query
  // -1 (fail) - Something went wrong during query processing
  int <- getStatus();

  boolean <- hasNext(); // Returns whether or not there is a next row.
  tuple <- next(); // Returns the next row. NOTE: Pins all needed blocks.
  status <- release(); // Unpins all blocks, release all locks acquired by SI.
}