NAME
    xcb_query_tree - query the window tree

SYNOPSIS
    #include <xcb/xproto.h>

  Request function
    xcb_query_tree_cookie_t **xcb_query_tree**(xcb_connection_t *conn*, xcb_window_t *window*);

  Reply datastructure

    typedef struct xcb_query_tree_reply_t {
        uint8_t   *response_type*;
        uint8_t   *pad0*;
        uint16_t   *sequence*;
        uint32_t   *length*;
        xcb_window_t *root*;
        xcb_window_t *parent*;
        uint16_t   *children_len*;
        uint8_t   *pad1*[14];
    } **xcb_query_tree_reply_t**;

  Reply function
    xcb_query_tree_reply_t ***xcb_query_tree_reply**(xcb_connection_t *conn*,
        xcb_query_tree_cookie_t *cookie*, xcb_generic_error_t **e*);

  Reply accessors
    xcb_window_t ***xcb_query_tree_children**(const xcb_query_tree_request_t *reply*);

    int **xcb_query_tree_children_length**(const xcb_query_tree_reply_t *reply*);

    xcb_generic_iterator_t **xcb_query_tree_children_end**(const xcb_query_tree_reply_t *reply*);

REQUEST ARGUMENTS
    conn   The XCB connection to X11.

    window   The *window* to query.

REPLY FIELDS
    response_type The type of this reply, in this case *XCB_QUERY_TREE*. This field is also present in

the *xcb_generic_reply_t* and can be used to tell replies apart from each other.

sequence   The sequence number of the last request processed by the X11 server.

length   The length of the reply, in words (a word is 4 bytes).

root   The root window of *window*.

parent   The parent window of *window*.

children_len   The number of child windows.

DESCRIPTION

Gets the root window ID, parent window ID and list of children windows for the specified *window*. The children are listed in bottom-to-top stacking order.

RETURN VALUE

Returns an *xcb_query_tree_cookie_t*. Errors have to be handled when calling the reply function *xcb_query_tree_reply*.

If you want to handle errors in the event loop instead, use *xcb_query_tree_unchecked*. See **xcb-requests(3)** for details.

ERRORS

This request does never generate any errors.

EXAMPLE

```
/*
 * Displays the root, parent and children of the specified window.
 *
 */
void my_example(xcb_connection_t *conn, xcb_window_t window) {
  xcb_query_tree_cookie_t cookie;
  xcb_query_tree_reply_t *reply;

  cookie = xcb_query_tree(conn, window);
  if ((reply = xcb_query_tree_reply(conn, cookie, NULL))) {
    printf("root = 0x%08x\n", reply->root);
    printf("parent = 0x%08x\n", reply->parent);
```

```
        xcb_window_t *children = xcb_query_tree_children(reply);
        for (int i = 0; i < xcb_query_tree_children_length(reply); i++)
          printf("child window = 0x%08x\n", children[i]);

        free(reply);
      }
    }
```

SEE ALSO
xcb-requests(3), **xcb-examples**(3), **xwininfo**(1)

AUTHOR
Generated from xproto.xml. Contact xcb@lists.freedesktop.org for corrections and improvements.