Basic 2 Assignment

Part 1:

1. Packages 129, 132, and 142 are all requesting the content from neverssl.com. Packet 131 is a moved permanently response, packet 138 is a text/html response, and packet 157 is a png response.
2. Status code of package 131 is 301 (Moved permanently). Package 138’s and 157’s status codes are 200 (OK, request succeeded).
3. Package 129’s header includes the Accept-Language: en-US, en;q=0.5. This allows for the server to determine what language it needs to generate a response for the client.
4. Package 138’s header includes the Content-Length section. This allows for the server to know the size in bytes of the package being received.

Part 2:

1. (And question 2)

Packet 382 :404 Not Found because the website that it is attempting to reach (<http://neverssl.com/clemson>) does not exist.

Packet 440: 200 OK (PNG) meaning that the connection went through.

301 Moved Permanently which tells the browser that it has been moved and gives the new URL in the header.

1. (text/html) meaning that the connection went through.

3. Error 404 will cause the browser to only show an error on the screen.

Status code 200 will cause the browser to show the web page as normal.

Status Code 301 will change the URL and will cause the browser to recognize this.

4. The 404 error code does not include the last modified date, the accept-ranges, or the ETag. The 301 code does not include the Etag or the last modified date.

Part 3

1. I got 7 DNS queries and 7 DNS responses.

2. The DNS responses are coming from IP address 10.0.2.1

3. I got types A, SOA, MX, and NS. I got 2 responses that included authority RR’s.

4. There are 3 DNS responses that have multiple answers. The difference between the answers is the name and the data length of the answers. Also, the time to live is different between the different answers.