**Part 1:**
 1: Mammal
2: fur
3: Non - homemade
4: 2
5: Sandy
6: Non - Plastic
7: Bow
8: Dress
9: cloth
10: Gray

**Part 2:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number of Query** | **Type** | **Keywords used** | **# of record** | **Results** |
| 4 | Keyword | 2 (number of Legs) | 17 | Results: Records 2, 4, 5, 7, 8, 9, 12, 14, 15, 16, 17, 18, 20, 21, 22 all have 2 legs |
| 10 | Keyword | Gray | 3 | Results: 2, 10, and 17 all have color gray |
| 8 | Keyword | Dress | 4 | Results: 4, 9, 11, and 21 all are wearing a dress |
| 2 | Keyword | Fur | 10 | Results: 1, 3, 4, 7, 15, 16, 19, 20, 21, and 22 all have some sort of fur  |
| 6 | Keyword | Non-Plastic | 4 | Results: 11,12, 20, 21, |
| 2, 5 | Boolean - And | Fur and Sandy | 1 | Record 4: Black dressed bear had soft fur and sandy |
| 1, 4 | Boolean - and | Mammal and 2 | 15 | Results: 2, 4, 5, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, and 18 |
| 3, 9 | Boolean – And | Non-Homemade and Cloth | 0 | There are none |
| 1, 10 | Boolean – And | Mammal and Gray | 3 | Results: 2, 10, 17  |
| 5, 8 | Boolean – And | Sandy and Dress | 1 | Results: 4 |
| 6,7 | Boolean – or | Bow or Plastic | 22 | Results 1, 2, 3, 4. 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 17, 18, 20, 21, 22 all have bows or plastic eyes |
| 7, 4 | Boolean – Or | Bow or 2 | 17 | Results: 2, 4, 5, 7, 8, 9.10, 12, 13, 14, 15, 16, 17, 18, 20, and 21 |
| 2, 9 | Boolean – Or | Fur or Cloth | 11 | Results: 1, 3, 7, 9, 15, 16, 19, 20, and 21 |
| 3, 10 | Boolean – Or | Non-Homemade or Gray | 19 | Results: 1, 2, 4, 5, 6, 7, 8, 10, 13, 14, 15, 16, 17, 18, 19, 20, 21, and 22 |
| 6, 5 | Boolean – Or | Non-Plastic or Sandy | 6 | Results: 4, 5, 11, 12, 20, and 21 |
| 3, 10 | Boolean – Not | Non – homemade not Gray | 3 | Results: records 9, 11, 12 were not homemade or gray |
| 5, 9 | Boolean – Not | Sandy not Cloth | 18 | Results: 1, 2, 3, 6, 7, 8, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, and 22 |
| 1, 7 | Boolean – Not | Mammal not Bow | 0 |  |
| 4, 10 | Boolean – Not | 2 not Gray | 5 | Results: 1, 3, 6, 11, 19 |
| 6, 9 | Boolean – Not | Non-Plastic not Cloth | 17 | Results: 1, 2, 3, 4, 5, 6, 7, 8, 10, 13, 14, 15, 16, 17, 18, 19, 22,  |

**Part 3:**

A keyword is a term or phrase that is used to search for a certain set of data. When using a word, the synonyms and related words can also be used to search for data. Synonyms are especially helpful when a keyword does not produce the desired results. Keywords also do not have to be single words. They can be phrases such as “not sleeping”.

Boolean operators are three terms that help define your search and produce better results. Two of the words are conjunctions, “and” and “or” and the final, “not” is an adverb. When “and” is used, it helps it to lower the number of results. For example, when searching for information on Aspberger’s Syndrome and how it relates to Autism, search for “Aspberger’s Syndrome” *and* “Autism”. When using “or”, the results that will appear will become broader than those using the other two terms. For example, if looking for information on both Autism and Aspberger’s Syndrome, put in the search box “Autism” *or* “Aspberger’s Syndrome”. When using “not”, the results that will appear will be narrower. For example, when searching for information about Aspberger’s Syndrome alone, search “Aspberger’s Syndrome” *not* “Autism”.

I used Google to test different ways of searching and the different results that I got.

My first test was using a key word search. I used “Forensics”. This produced 8,320,000 results. Obviously there are way too many results for me to find something that I am really searching for. I then searched for “Forensics” and “Anthropology” which Google gave me 973,000 results. That’s an 11% reduction in results. I then searched for “Forensics” and “Anthropology” not “odontology”. Google gave me 140,000 results. That is about a 14% reduction. Then I searched “Forensics” and “Anthropology” or “entomology”. Google gave me 130,000 results.

To compare for my next search I used phrases. The phrase I used was “not sleeping” which gave me 890,000 results. Again way too many. So I put in “not sleeping” or “staying awaking”. This gave me 3,960 results. Using “not” did not produce much better results. When I put in “not” it gave me 3,970 results. So in general I think it would be easier to use a keyword rather than a phrase when searching

In searching, I think both keywords and Boolean searches can produce effective results. In fact, Boolean can help your keyword searches especially when searching for multiple keywords.