

## Part 1 – Learning to use LionSearch

1. List the 3 Boolean operators LionSearch accepts and describe the operation each performs.
  - AND, this will narrow a search. The more words or phrases connected by AND the fewer and more specific the results retrieved.
  - OR, this will broaden your search. OR link similar concepts or ideas.
  - NOT, this narrows a search as it excludes any item containing that specific search term in it.
2. Explain the difference between “information systems” and information systems.
  - When you are searching “information systems” you are searching for results with the words connected in the articles or links. When you search information systems then you are searching articles or links that contain those two words, however, they may not be connected to each other directly in the articles or links. They could appear anywhere in the subject matter without connecting to each other.
3. If you wanted to see if the Penn State Libraries had a book, but only knew the ISBN number (052133739), then what is the query you would need to enter?

- You would do an advanced search under the option “ISBN” and click “expand results: Include results from outside your library's collection”

The screenshot shows the Penn State Libraries LionSearch interface. The search bar contains the ISBN 052133739. The search is configured with 'All Fields' and 'AND' operators. The 'Show content type' section has 'Any Type' selected. The 'Language' field is empty. The 'Show only' section has several options, including 'Items with full text online' and 'Items in the library catalog'.

A. What is the title of the book?

“Plans and situated actions: the problem of human-machine communication”

B. Who is the author?  
by Suchman, Lucille Alice

## Part 2 – Learning about Queries

1. In LionSearch, enter the query **Penn State**. Note how many results LionSearch returned.  
4,313,284 results
2. In LionSearch, enter the query **“Penn State**. Were more or fewer results returned?  
Explain why.  
Fewer results came back as the search was refined to pairing the words instead of just having both words in the results.
3. In LionSearch, enter the query **“Penn State” NOT football**. How many results were returned?  
1,008,737 results
4. What is the query asking the search engine to find?  
The query is asking the search engine to find all items in the library that reply to Penn State with the 2 words combined, however, leaving out all items pertaining to Penn State football.

## Part 3 – Create your Own Query

1. **Describe** the subject about which you are searching for information.
  - I am looking for information on infrastructure security.
2. **List** the query you will use to find the information about the subject you choose. Remember to consider using the Boolean operators to improve you results.
  - I used “infrastructure security”
3. **Answer** this: how many results were returned from your query?
  - 83
4. **List** the titles of the first 3 results returned.
  - RCR\_Meeting\_minutes\_-\_February\_28,\_2012
  - socscilfinal08
  - InformationSciences
5. **Answer** this: Did the query return adequate results? If your answer is “yes” then **state** why you think so. If your answer is “no”, then **state** how you could change your query to get better results.
  - I don't think it did.
  - I could change the search query to “infrastructure security” NOT class.

6. **Filter** the results to include only those materials Penn State has access to online. Next, you will **save** these items to a folder that allows you to save your work and perform other tasks. To add these items to your folder, **click** on the plus (+) sign on the right side of the publication. This will add your results to your “Flow” folder. To see the items in the folder, **click** on the folder icon at the top of the page.
7. **List** the titles of the item in the Flow folder and include the links to the materials to your homework document. You can do this by right-clicking on the **Link** hyperlink and select **Copy Link**, **Copy Link Address**, or **Copy Link Location** (the exact option depends on the specific browser you are using) and then **Paste** it into your answer document.

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8. **Format** the search results in APA format by **clicking** on the *Choose a Citation Format* dropdown at the top of the page. Then **copy** and **paste** the items into your document.

Setola, R., Sforza, A., Vittorini, V., Pragliola, C., & SpringerLink (Online service). (2015). *Railway infrastructure security*. Cham: Springer International Publishing.[Link](#)

Bologna, S., Hämmerli, B. M., Gritzalis, D., Wolthusen, S. D., & SpringerLink (Online service). (2013). *Critical information infrastructure security: 6th international workshop, CRITIS 2011, lucerne, switzerland, september 8-9, 2011, revised selected papers*. Berlin, Heidelberg: Springer Berlin Heidelberg.[Link](#)

United States. Congress.Senate.Committee on Environment and Public Works. (2003). *Nuclear infrastructure security act: Report (to accompany S. 1043) (including cost estimate of the congressional budget office)*. Washington, D.C.: U.S. G.P.O.[Link](#)

9. **Change** the sorting to newest and **list** the first result returned.
  - A mobile application for knowledge-enriched short-term scheduling of complex products.