

Homework 3  
CS 450  
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1. Find all the movies (movie\_ID) that member “dsmith” watched under the “Kids” profile, and rated (by the profile) higher than 4 stars.
  - a.  $\sigma \text{ member\_ID}=\text{dsmith} \wedge \text{profile\_name}=\text{kids} \wedge \text{rating} > 4(\text{watch})$
2. Print the names of all actors in the movie titled “The Last Jedi.”
  - a.  $\pi \text{ first\_name, last\_name} ( \sigma \text{ movie\_ID} = \text{“The Last Jedi”} (\text{Starred\_by} \bowtie \text{Actor}))$
3. Find the members (member\_ID, first name, last name) who watched the movie titled “The Last Jedi.”
  - a.  $\pi \text{ first\_name, last\_name} ( \sigma \text{ movie\_ID} = \text{“The Last Jedi”} (\text{Watch} \bowtie \text{Member}))$
4. Find the members (member\_ID) who watched the movie “The Last Jedi” but not “The Rise of Skywalker.”
  - a.  $\pi \text{ member\_ID} (\text{Watch} \bowtie \text{w.movie\_ID}=\text{“w.The Last Jedi”} \wedge \neg (\text{w.movie\_ID}=\text{“w.The Rise of Skywalker”})) \text{ Member})$
5. Find the members (member\_ID) who watched both “The Last Jedi” AND “The Rise of Skywalker”, and rated both movies higher than 4 stars.
  - a.  $\pi \text{ member\_ID} (\text{Watch} \bowtie \text{w.movie\_ID}=\text{“w.The Last Jedi”} \wedge \text{w.movie\_ID}=\text{“w.The Rise of Skywalker”} \wedge \text{w.rating} > 4 \text{ Member})$