Exercise 2 - Solution

```
Q1
\pi_{\{stude\}}(\sigma_{(mark>70\;AND\;subj=1011)}(MARK))
Q2
\pi_{\{name, subj\}}(\sigma_{(mark>70)}(STUDENT \bowtie_{(sid=stude)} MARK))
Q3
\pi_{\{fisrtName,lastName\}}(author\bowtie book)
Q4
 \begin{array}{l} A \leftarrow \pi_{\{aut A \cap FD\}} author - \pi_{\{aut h \cap FD\}} book \\ B \leftarrow \pi_{\{first Name, last Name\}} (A \bowtie author) \end{array} 
(It's possible to have duplicate author names) https://powcoder.com
Q5
\pi_{\{fisrtName,lastName\}} ddh We Chatboucoder
Q6
\pi_{\{fisrtName,lastName\}}(author\bowtie(authorPub\bowtie(\sigma_{(month='July')}(book)\bowtie pub)))
Q7
A \leftarrow \pi_{\{authorID\}}book
B \leftarrow \pi_{\{authorID\}} authorPub
C \leftarrow \pi_{\{firstName, lastName\}}((A-B) \bowtie author)
Q8
\pi_{\{name\}}((\sigma_{(gender='female')}(Student))\bowtie Enrolment\bowtie (\sigma_{(job='designer')}(JobRequirement)))
```

```
Q9
A \leftarrow \pi_{\{name\}}(Student \bowtie (Enrolment \div \pi_{\{courseID\}}(\sigma_{(job='designer')}(JobRequirement)))))
B \leftarrow \pi_{\{name\}}(Student \bowtie Enrolment \bowtie (\sigma_{(faculty='law')}(Course)))))
C \leftarrow A - B
Q10
A \leftarrow \pi_{\{courseName\}}(Course \bowtie Enrolment \bowtie (\sigma_{(gender='female')}(Student))))
B \leftarrow \pi_{\{courseName\}}(Course \bowtie Enrolment \bowtie (\sigma_{(gender='male')}(Student))))
C \leftarrow (A - B) \cup (B - A)
```

Assignment Project Exam Help

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