Sample HW description

 □ Date	@August 31, 2021
: ≡ Tags	

Currently Q1-Q3 works to translate from relational algebra to sql

Relation Algebra:

```
Q1:
$\project_{BranName}(\s_{State='Indiana'} (LibraryBranch))$

Q2:
$ LibrBran \leftarrow \s_{State='Indiana'} (LibraryBranch) $
$ LibrBookCopi \leftarrow LibrBran \theta_join_{LibrBran.BranId} = BookCopies.BranId } BookCopies $
$ LibrBook \leftarrow LibrBookCopi \theta_join_{LibrBookCopi.BookId} = Book.BookId } Book $
$ Result \leftarrow \project_{Title} (LibrBook)$

Q3:
$ WithLoans \leftarrow \project_{MembId} (BookLoans)$
$ AllMemb \leftarrow \project_{MembId} (Member) $
$ NoLoans \leftarrow AllMemb - WithLoans $
$ Result \leftarrow \project_{MembName} (NoLoans \j Member) $
```

By uncomment in RAtoSql.py and run it, you can change from Relational algebra to sql

Folder in Github also includes HwQ1-Q3.tex, which includes the Question 1 to Question 3 and Hw-Full.tex, which includes all questions.

Github link: https://github.com/CalendulaED/RaptGuideLine/tree/main/RAtoSqlExample

Sample HW description 1