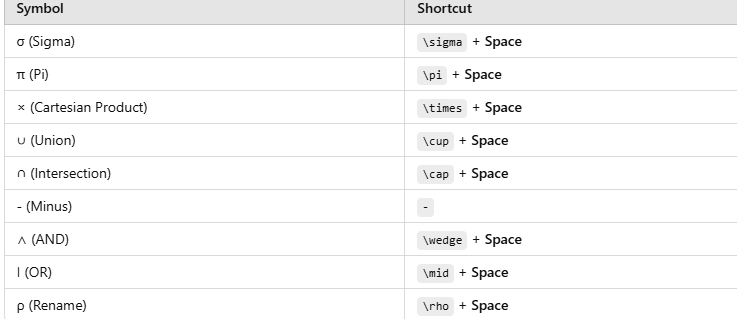
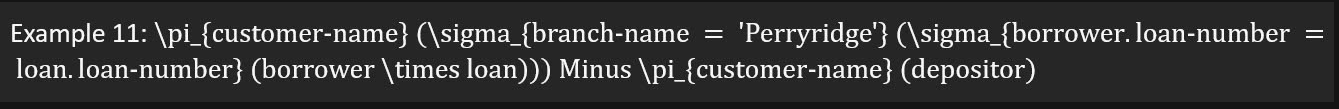
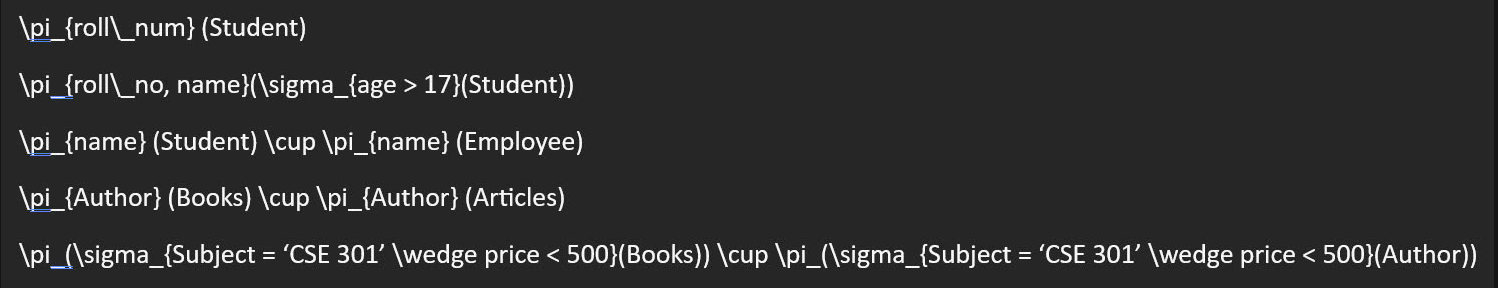
# Relational Algebra Exercises





How to do in Word: 

Exercies:

## Example 1

σ\_{branch-name='Perryridge'}(loan) ∣ σ\_{amount>120}(loan)

## Example 2

σ\_{branch-name='Perryridge' ∧ amount>120}(loan)

## Example 3

π\_{loan-number, amount}(loan)

## Example 4

π\_{loan-number}(σ\_{amount>1200}(loan))

## Example 5

π\_{customer-name}(σ\_{customer-city='Harrison'}(customer))

## Example 6

π\_{customer-name}(borrower) ∪ π\_{customer-name}(depositor)

## Example 7

π\_{customer-name}(borrower) ∩ π\_{customer-name}(depositor)

## Example 8

π\_{customer-name}(depositor) − π\_{customer-name}(borrower)

## Example 9

π\_{customer-name}(σ\_{branch-name='Perryridge'}(σ\_{borrower.loan-number=loan.loan-number}(borrower × loan)))

## Example 10

π\_{customer-name}(σ\_{branch-name='Perryridge'}(σ\_{borrower.loan-number=loan.loan-number}(borrower × loan)))

## Example 11

π\_{customer-name}(σ\_{branch-name='Perryridge'}(σ\_{borrower.loan-number=loan.loan-number}(borrower × loan))) − π\_{customer-name}(depositor)

## Example 12

π\_{balance}(account) − π\_{account.balance}(σ\_{account.balance<d.balance}(account × ρ\_d(account)))

## Example 13

π\_{balance}(account) − π\_{account.balance}(σ\_{account.balance>d.balance}(account × ρ\_d(account)))