CIS3530 A1

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# Question #1

## 

## A

| σ cNum=3530 Offering |
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## B

| π cNum,term,name (π cNum, term σ year=2016 Offering ⟕ σ dept='CIS' Course) |
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## 

## C

| π cNum,name (σ instructor='Ritu' Offering ⟕ Course) |
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## 

## D

| π sID,firstName,lastName,email,cgpa ((π oID σ cNum=3530 ∧ year=2017 ∧ term=’F’ Offering ⨝ Took) ⨝ Student) |
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## 

## E

| (π sID Student - π sID (π oID σ cNum=3530 Offering ⨝ Took)) ⨝ Student |
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## 

## F

| (π oID,sID Took ÷ (π oID (σ dept='HIS' Course ⨝ Offering))) ⨝ Student |
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## 

## G

| π a.cNum,a.dept,b.cNum,b.dept σ a.cNum=b.cNum ∧ a.dept!=b.dept ∧ a.dept<b.dept (ρ a Course x ρ b Course) |
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## H

| π cNum Course ⟕ π cNum,term,year Offering |
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## 

## I

### Question

Find the student with the highest cgpa

### Solution

| π firstName,lastName,cgpa Student - π a.firstName,a.lastName,a.cgpa σ a.cgpa<b.cgpa (ρ a π firstName,lastName,cgpa Student x ρ b π firstName,lastName,cgpa Student) |
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