



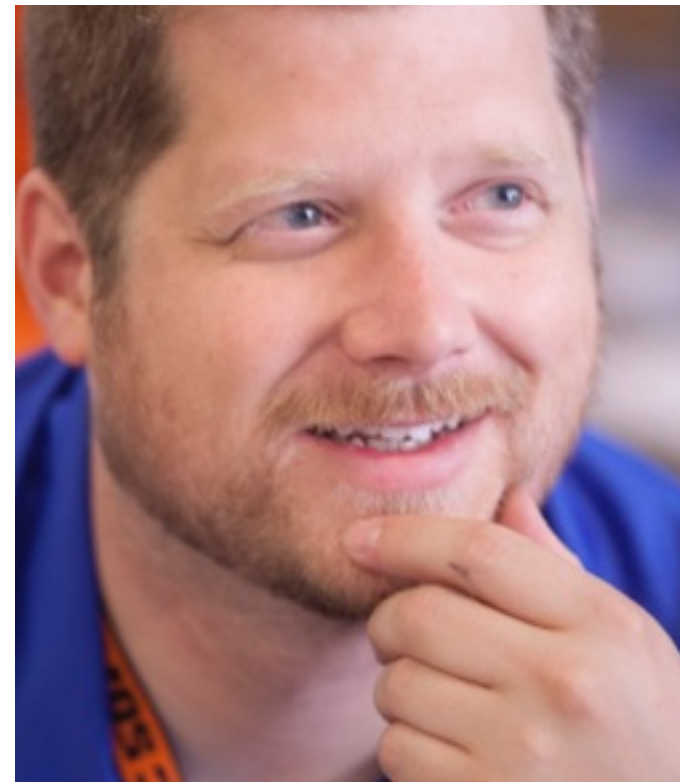
Sql Workshop

Who Is This Guy?

Paige Labs:
Research & Development

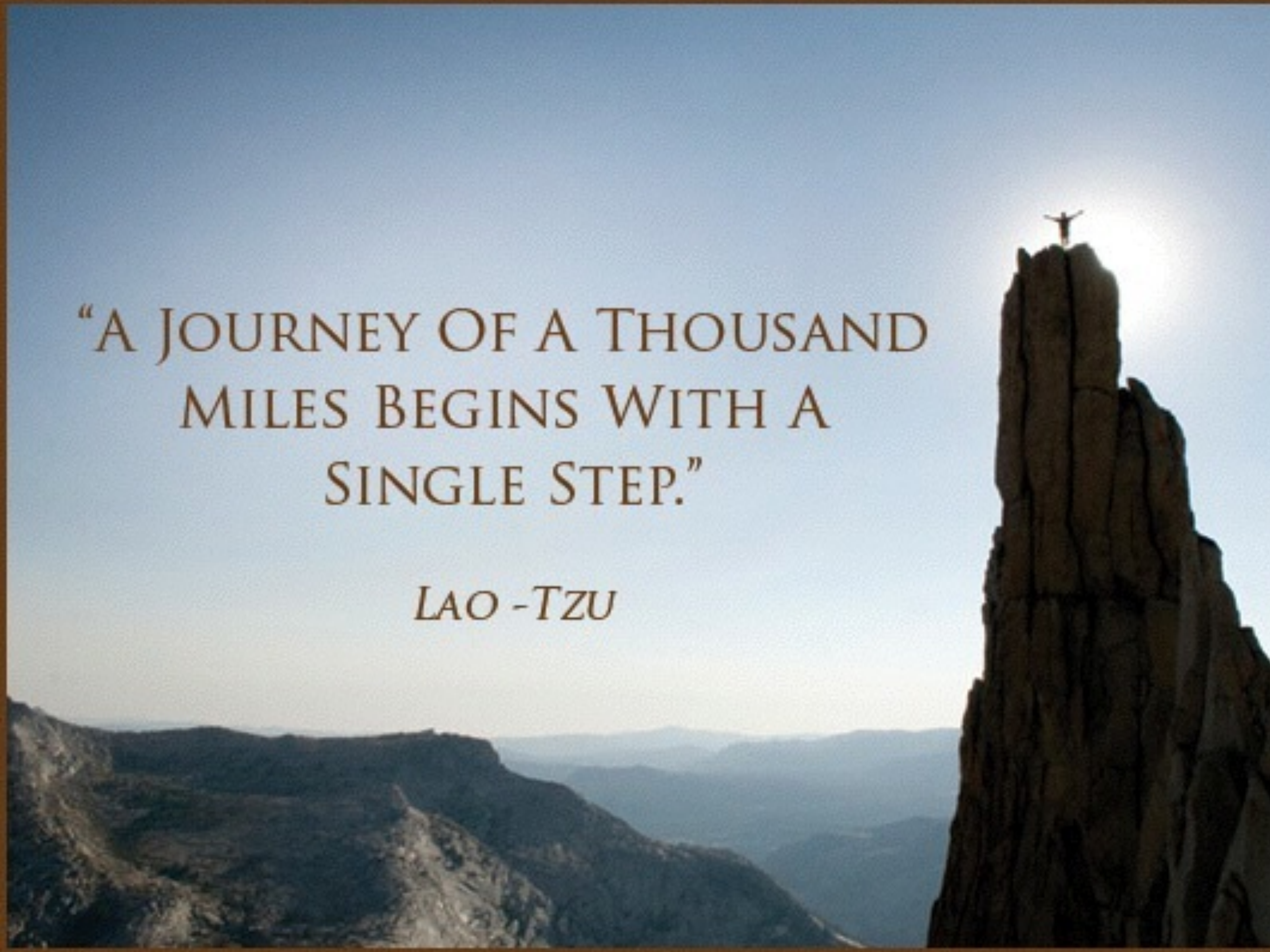
Twitter:
@jonathanfmills

Website:
jonathanfmills.com



Why Are We Here?



A person stands triumphantly on the peak of a jagged, dark rock formation. The sun is positioned directly behind the person, creating a bright halo effect. The background features a vast, hazy landscape of rolling mountain ranges under a clear blue sky.

“A JOURNEY OF A THOUSAND
MILES BEGINS WITH A
SINGLE STEP.”

LAO -TZU

Let's do some CRUD



Select [Column]
From [Table]



Select [Column]
From [Table]



Select [Column]
From [Table]
Where [Condition]



Where Operators

=

<>

<=

Between

Not Between

IN ()

AND

OR



Select [Column]
From [Table]
Where Like [Condition]



%

matches a string of one or more characters

–

matches any single character

[]

matches any single character within the specified range (e.g. [a-f]) or set (e.g. [abcdef]).

[^]

matches any single character not within the specified range (e.g. [^a-f]) or set (e.g. [^abcdef]).



```
Select Distinct [Column]  
From [Table]  
Where [Condition]  
Order By [Column]
```



Select Top [Column]
From [Table]
Where [Condition]
Order By [Column]



Insert Into
[Table](Columns)
Values (Values)



Update [Table]
Set (changes)
Where (Identifier)



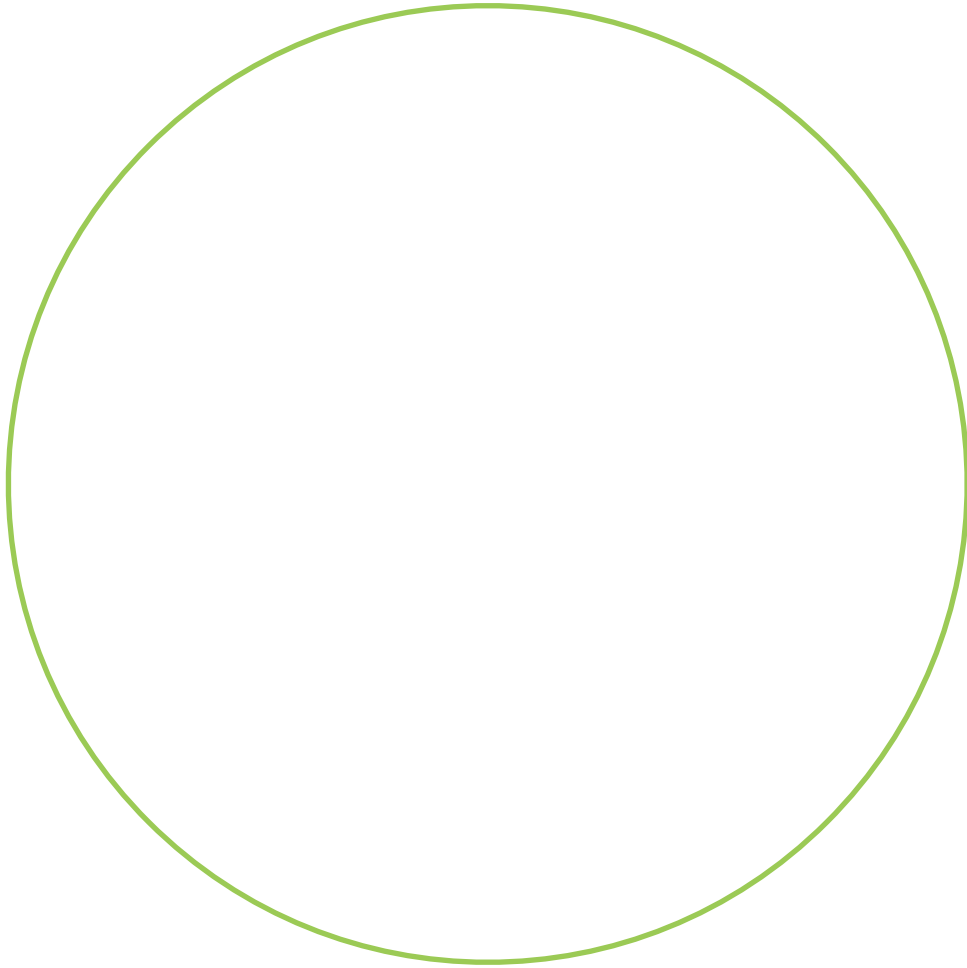
Delete From [Table]
Where [Criteria]



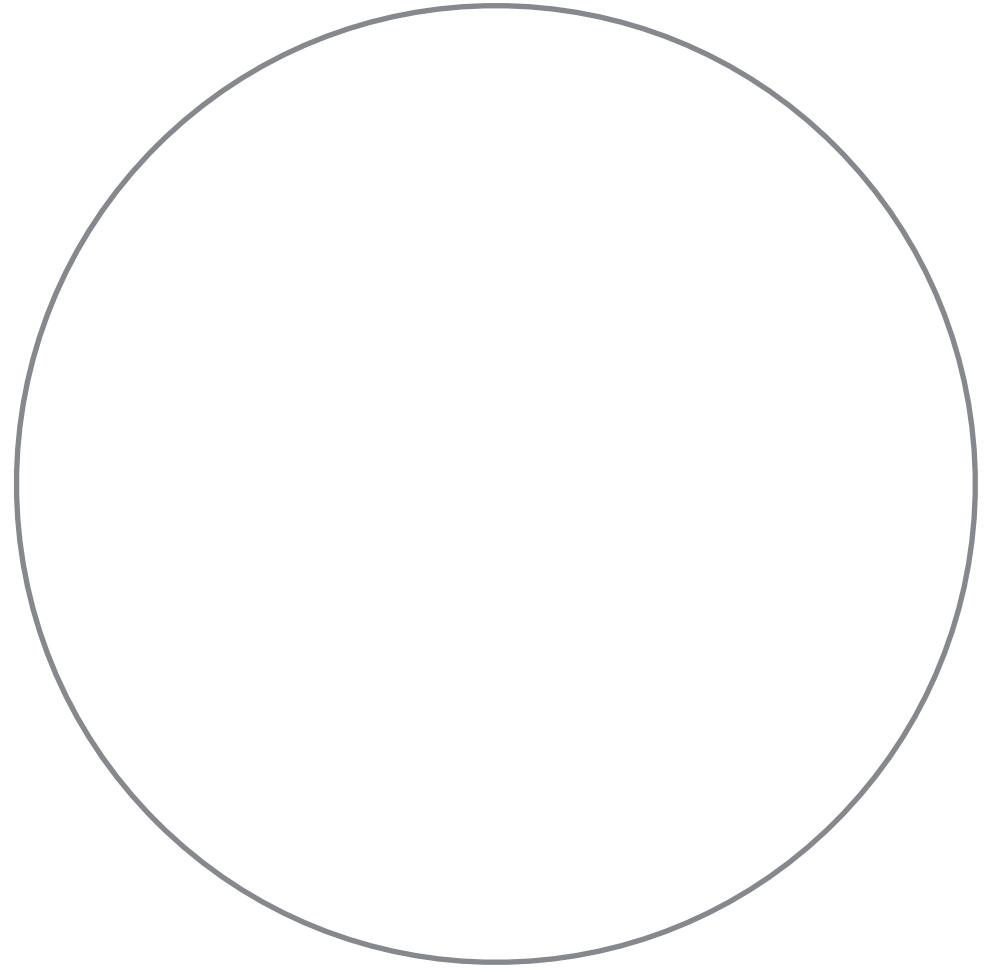
Joins...



Student



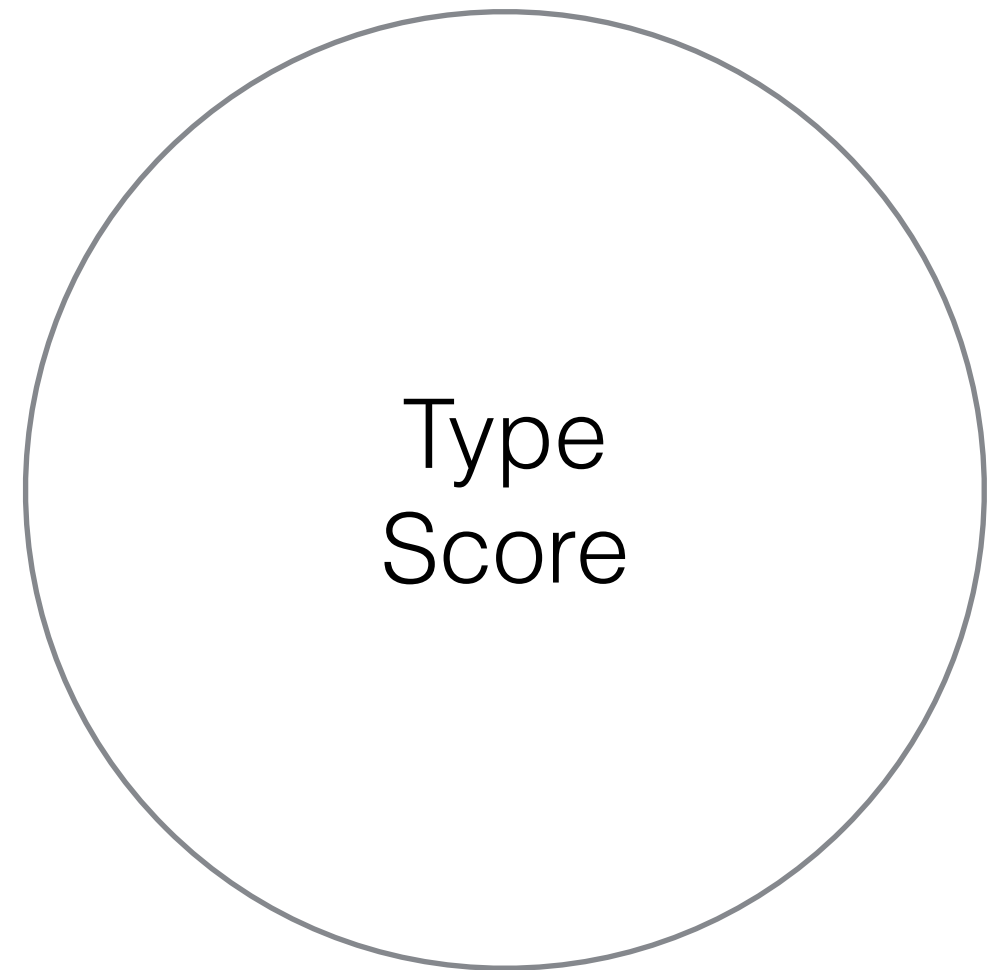
Activity



Student

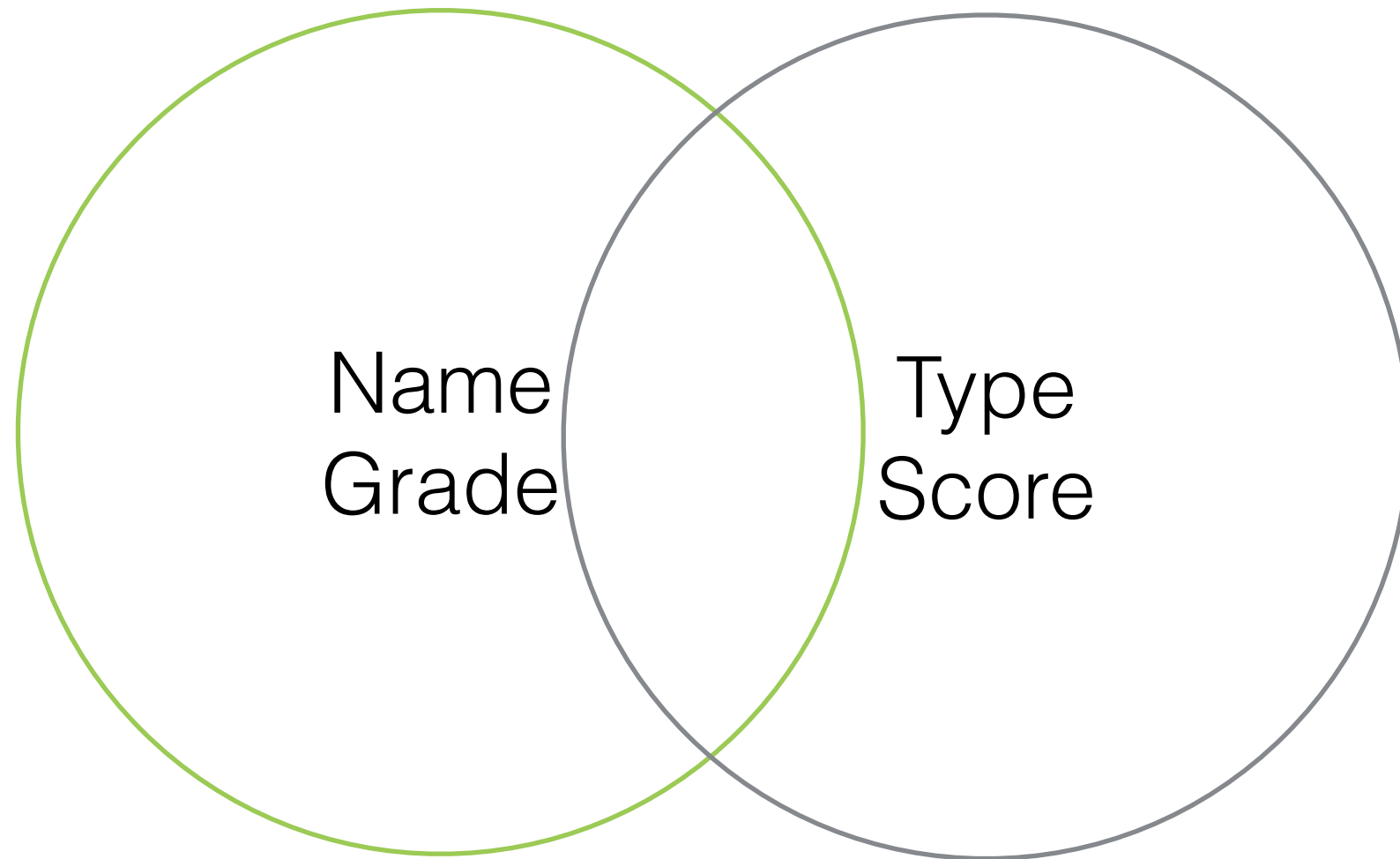


Activity



Student

Activity

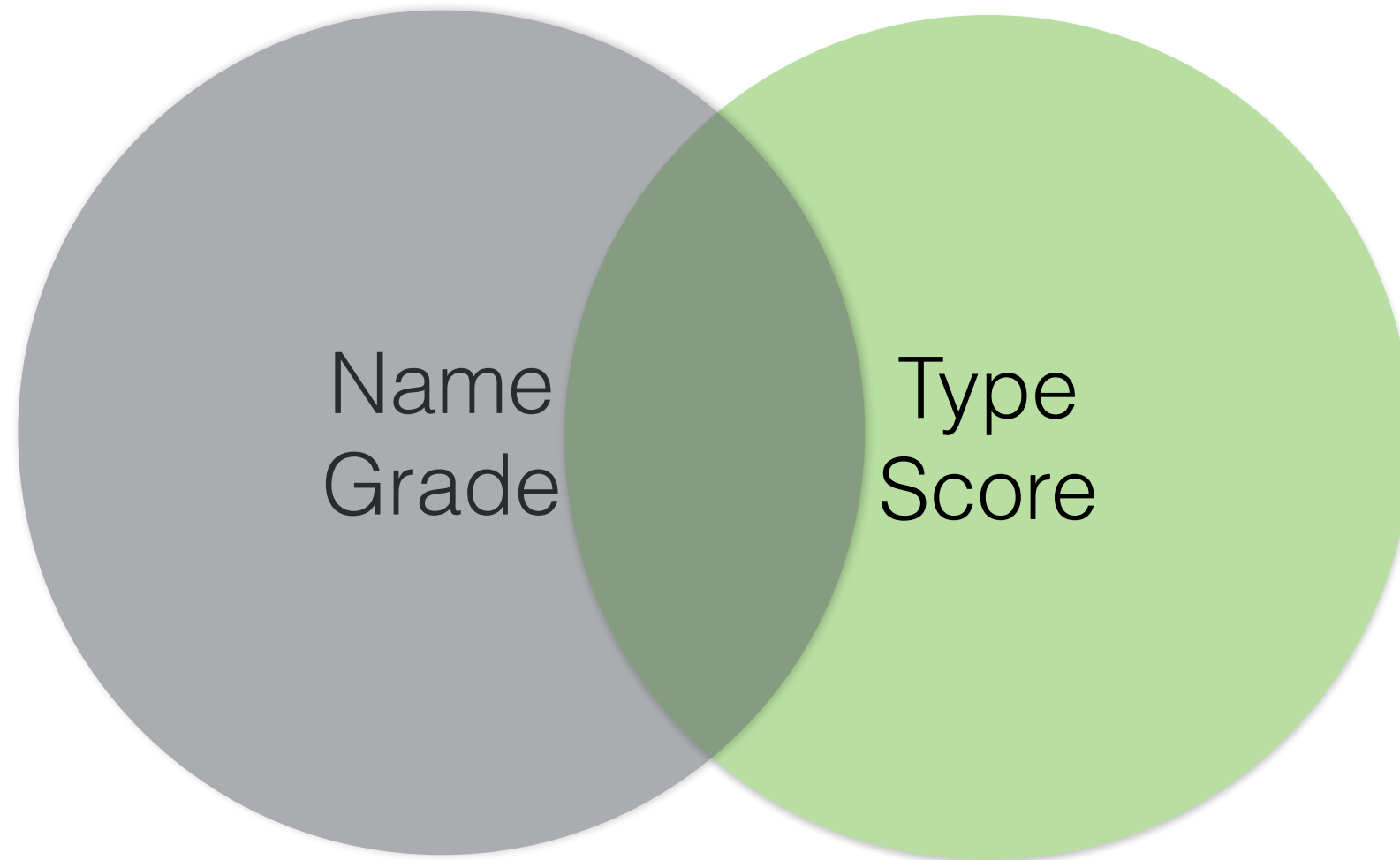


Inner Join



Student

Activity



```
Select [Column]  
From [Table]  
Inner Join [Table]  
on [Join Condition]  
Where [Condition]
```

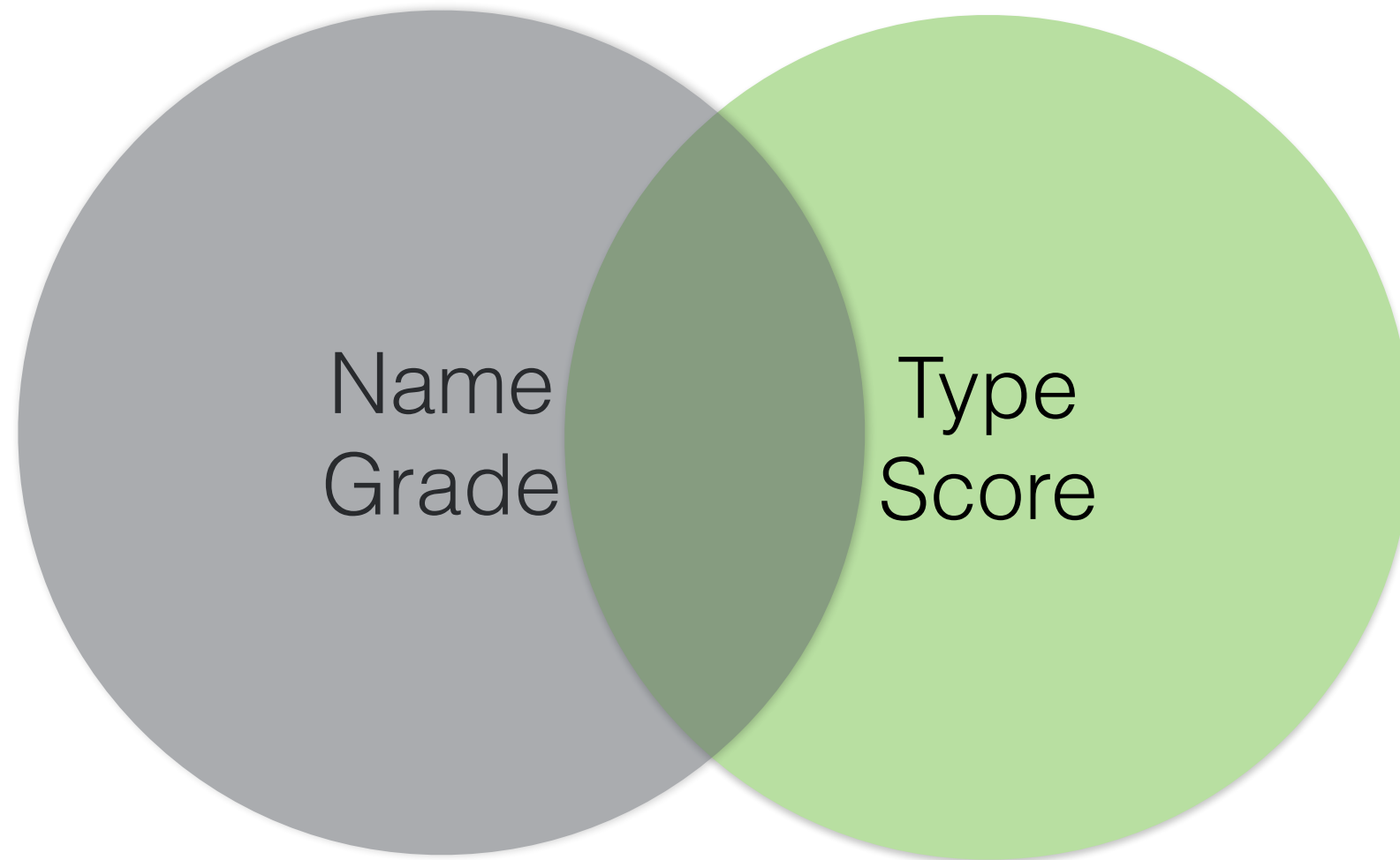


Outer Join



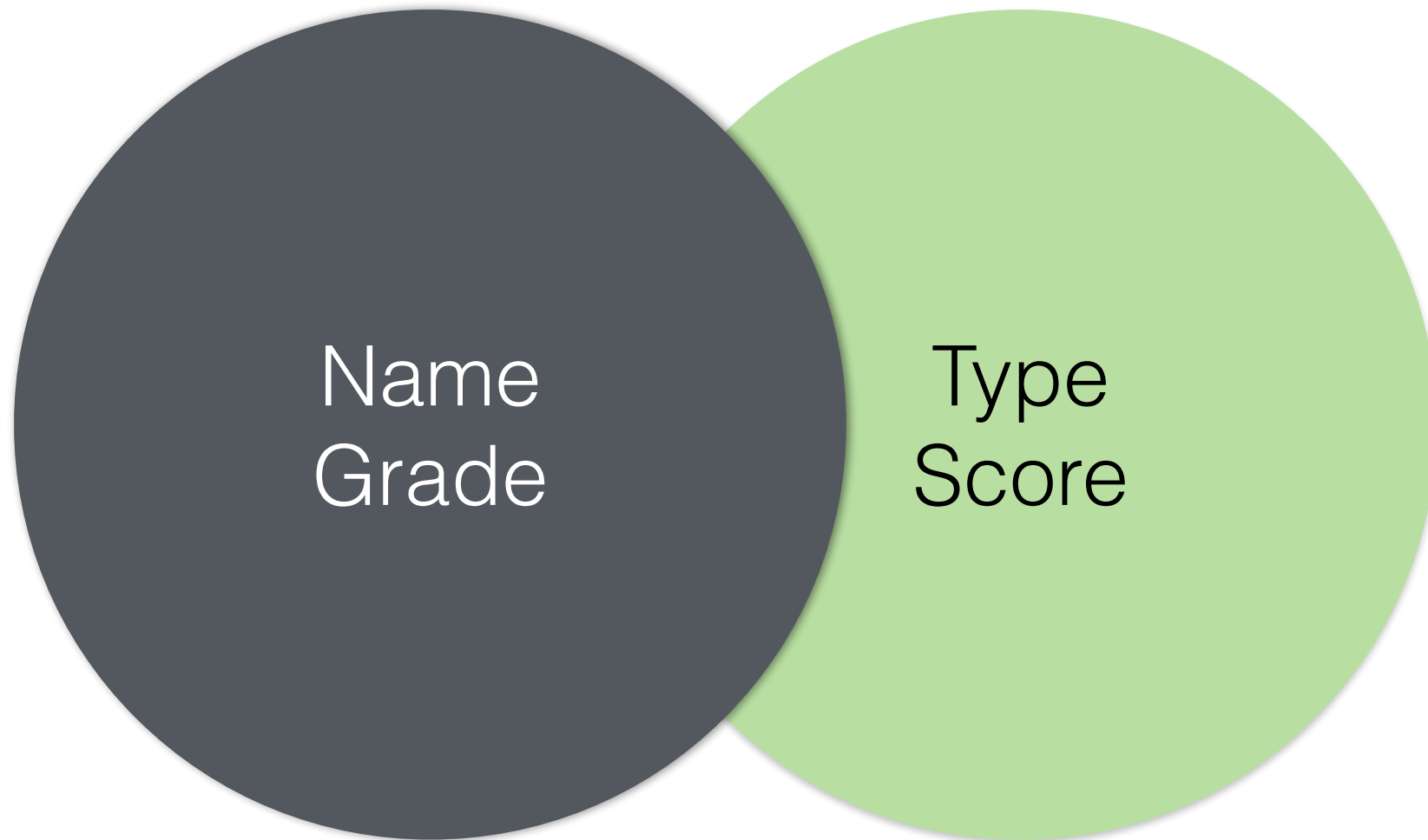
Student

Activity



Student

Activity



```
Select [Column]  
From [Table]  
Left Outer Join [Table]  
on [Join Condition]  
Where [Condition]
```



Group By



Select [Column], [Aggregate Function]
From [Table]
Where [Condition]
Group By [Column]



[Aggregate Function]

Count

Sum

First

Last

Max

Min

Average



Keys...

Primary and Foreign



Stored Procedures

