CIS126 SQL: Final Exam Timothy Sirchuk

1 (Highest Batting Average):

select namefirst+' '+namelast name, (H\*1.0)/(case when ab=0 then 1 else ab end) AS BA

from vwplayerbatting

where teamid='LAN' and yearid='2012' and (H\*1.0)/(case when ab=0 then 1 else ab end) = (select max((H\*1.0)/(case when ab=0 then 1 else ab end)) from vwplayerbatting where teamid='LAN' and yearid='2012' and ab > 500)

2 (Most Home Runs):

select namefirst+ ' '+namelast Name, HR

from vwplayerbatting

where teamid='LAN' and yearid='2012' and hr = (select max(hr) from vwplayersbatting where teamid='LAN' and yearid='2012')

3 (Most RBI’s):

select namefirst+ ' '+namelast Name, RBI

from vwplayerbatting

where teamid='LAN' and yearid='2012' and RBI = (select max(RBI) from vwplayersbatting where teamid='LAN' and yearid='2012')

4 (Highest OBP):

select namefirst+' '+namelast name, (H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end) as OBP

from vwplayerbatting

where teamid='LAN' and yearid='2012' and ((H+BB+HBP)\*1.0/(Case when AB=0 then (1+BB+HBP) else (AB+BB+HBP) end)) = (select max((H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end)) from vwplayerbatting where teamid='LAN' and yearid='2012' and ab>400)

5 (Most Hits):

select namefirst+ ' '+namelast Name, H

from vwplayerbatting

where teamid='LAN' and yearid='2012' and H = (select max(H) from vwplayersbatting where teamid='LAN' and yearid='2012')

6 (Body of stats):

select namefirst+ ' '+namelast name, G GP, AB, R, H, S, b2 as '2B', b3 as '3B', HR, RBI, TB, BB, SO, SB, (H\*1.0)/(case when ab=0 then 1 else ab end) AS BA, (H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end) as OBP, (tb\*1.0)/(case when ab=0 then 1 else ab end) as SLG, (H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end)+(tb\*1.0)/(case when ab=0 then 1 else ab end) as OPS

from vwplayerbatting

where teamid='LAN' and yearid='2012' order by ba desc

7 (Totals of stats):

select ('Totals') Totals, (162) GP, sum(AB) AB, sum(R) R, sum(H) H,

sum(B2) '2B', sum(B3) '3B', sum(HR) HR,

sum(RBI) RBI, sum(TB) TB, sum(BB) BB, sum(SO) SO, sum(SB) SB,

sum(H\*1.0)/(sum(Case when AB=0 then 1 else ab end)) BA,

sum(H+BB+HBP)\*1.0/sum(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end) as OBP,

sum(tb\*1.0)/sum(case when ab=0 then 1 else ab end) as SLG,

sum(H+BB+HBP)\*1.0/sum(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end)+sum(tb\*1.0)/sum(case when ab=0 then 1 else ab end) as OPS

from vwplayerbatting

where teamid='LAN' and yearID='2012'

STATEMENTS IN PROGRESS:

Sums/Totals:

select ('Totals') Totals, (162) GP, sum(AB) AB, sum(R) R, sum(H) H,

sum(B2) '2B', sum(B3) '3B', sum(HR) HR,

sum(RBI) RBI, sum(TB) TB, sum(BB) BB, sum(SO) SO, sum(SB) SB,

sum(H\*1.0)/(sum(Case when AB=0 then 1 else ab end)) BA,

sum(H+BB+HBP)\*1.0/sum(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end) as OBP,

sum(tb\*1.0)/sum(case when ab=0 then 1 else ab end) as SLG,

sum(H+BB+HBP)\*1.0/sum(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end)+sum(tb\*1.0)/sum(case when ab=0 then 1 else ab end) as OPS

from vwplayerbatting

where teamid='LAN' and yearID='2012'

Stored procedure to find highest stats:

create proc spMax (@highest varchar (10)) as select name, max(@highest) from vwfinalexam group by name

BAT AVG WITH OBP SLG AND OPS:

select namefirst+ ' '+namelast name, G GP, AB, R, H, S, b2 as '2B', b3 as '3B', HR, RBI, TB, BB, SO, SB, (H\*1.0)/(case when ab=0 then 1 else ab end) AS BA, (H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end) as OBP, (tb\*1.0)/(case when ab=0 then 1 else ab end) as SLG, (H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end)+(tb\*1.0)/(case when ab=0 then 1 else ab end) as OPS

from vwplayerbatting

where teamid='LAN' and yearid='2012' order by ba desc

BAT AVG WITH OBP AND SLG:

select namefirst+ ' '+namelast name, G GP, AB, R, H, S, b2 as '2B', b3 as '3B', HR, RBI, TB, BB, SO, SB, (H\*1.0)/(case when ab=0 then 1 else ab end) AS BA, (H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end) as OBP, (tb\*1.0)/(case when ab=0 then 1 else ab end) as SLG

from vwplayerbatting

where teamid='LAN' and yearid='2012' order by ba desc

BAT AVG WITH OBP:

select namefirst+ ' '+namelast name, G GP, AB, R, H, S, b2 as '2B', b3 as '3B', HR, RBI, TB, BB, SO, SB, (H\*1.0)/(case when ab=0 then 1 else ab end) AS BA, (H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end) as OBP

from vwplayerbatting

where teamid='LAN' and yearid='2012' order by ba desc

BAT AVG:

select namefirst+ ' '+namelast name, G GP, AB, R, H, S, b2 as '2B', b3 as '3B', HR, RBI, TB, BB, SO, SB, (H\*1.0)/(case when ab=0 then 1 else ab end) AS BA

from vwplayerbatting

where teamid='LAN' and yearid='2012' order by ba desc

select (H\*1.0)/(case where ab=0 then 1 else ab end) AS BA, name from vwfinalexam where ab>0 order by BA desc

select (H\*1.0)/AB BA from vwfinalexam where ab>0 order by BA

select namefirst+ ', ' +namelast, G GP, AB, R, H, S, b2 as '2B', b3 as '3B', HR, RBI, TB, BB, SO, SB from vwplayerbatting where teamID = 'LAN' and yearID='2012'

select namefirst+', '+namelast Name from vwplayersbatting

dbo.Batting.H-dbo.Batting.B2-dbo.Batting.B3-dbo.Batting.HR as S

((dbo.Batting.S)\*1 + (dbo.Batting.B2) \*2 + (dbo.Batting.B3)\*3 + (dbo.Batting.HR)\*4) AS TB

((dbo.Batting.H - dbo.Batting.B2 - dbo.Batting.B3 - dbo.Batting.HR)\*1 + (dbo.Batting.B2\* 2)

+ (dbo.Batting.B3 \* 3) + (dbo.Batting.HR \* 4) AS TB

My Stored Procedure:

create proc spFinalExam

@yearID smallint,

@teamID nvarchar(3) as

select namefirst+' '+namelast name, (H\*1.0)/(case when ab=0 then 1 else ab end) AS BA

from vwplayerbatting

where teamID=@teamID and yearid=@yearID and (H\*1.0)/(case when ab=0 then 1 else ab end) = (select max((H\*1.0)/(case when ab=0 then 1 else ab end)) from vwplayerbatting where teamID=@teamID and yearid=@yearID and ab > 500)

select namefirst+ ' '+namelast Name, HR

from vwplayerbatting

where teamID=@teamID and yearid=@yearID and hr = (select max(hr) from vwplayersbatting where teamID=@teamID and yearid=@yearID)

select namefirst+ ' '+namelast Name, RBI

from vwplayerbatting

where teamID=@teamID and yearid=@yearID and RBI = (select max(RBI) from vwplayersbatting where teamID=@teamID and yearid=@yearID)

select namefirst+' '+namelast name, (H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end) as OBP

from vwplayerbatting

where teamID=@teamID and yearid=@yearID and ((H+BB+HBP)\*1.0/(Case when AB=0 then (1+BB+HBP) else (AB+BB+HBP) end)) = (select max((H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end)) from vwplayerbatting where teamID=@teamID and yearid=@yearID and ab>400)

select namefirst+ ' '+namelast Name, H

from vwplayerbatting

where teamID=@teamID and yearid=@yearID and H = (select max(H) from vwplayersbatting where teamID=@teamID and yearid=@yearID)

select namefirst+ ' '+namelast name, G GP, AB, R, H, S, b2 as '2B', b3 as '3B', HR, RBI, TB, BB, SO, SB, (H\*1.0)/(case when ab=0 then 1 else ab end) AS BA, (H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end) as OBP, (tb\*1.0)/(case when ab=0 then 1 else ab end) as SLG, (H+BB+HBP)\*1.0/(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end)+(tb\*1.0)/(case when ab=0 then 1 else ab end) as OPS

from vwplayerbatting

where teamID=@teamID and yearid=@yearID order by ba desc

select ('Totals') Totals, (162) GP, sum(AB) AB, sum(R) R, sum(H) H,

sum(B2) '2B', sum(B3) '3B', sum(HR) HR,

sum(RBI) RBI, sum(TB) TB, sum(BB) BB, sum(SO) SO, sum(SB) SB,

sum(H\*1.0)/(sum(Case when AB=0 then 1 else ab end)) BA,

sum(H+BB+HBP)\*1.0/sum(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end) as OBP,

sum(tb\*1.0)/sum(case when ab=0 then 1 else ab end) as SLG,

sum(H+BB+HBP)\*1.0/sum(Case when AB=0 then 1+BB+HBP else AB+BB+HBP end)+sum(tb\*1.0)/sum(case when ab=0 then 1 else ab end) as OPS

from vwplayerbatting

where teamID=@teamID and yearID=@yearID