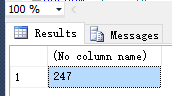
————————————questions——————————————————————

1

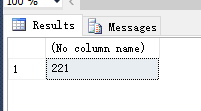
1. how many players are inducted into the hall of fame?



SELECT COUNT(playerID) FROM HallOfFame

WHERE inducted='Y'AND category='Player'

b)how many distinct players in the batting data set are in the hall of fame?



SELECT COUNT(DISTINCT Batting.playerID) FROM Batting

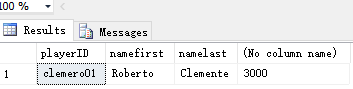
WHERE Batting.playerID IN

(SELECT HallOfFame.playerID FROM HallOfFame

WHERE category='Player' AND inducted='Y')

2

a)what player has exactly 3000 hits total for his career?



SELECT Batting.playerID,namefirst,namelast,SUM(Hits) FROM Batting,Players

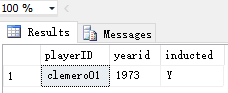
WHERE Batting.playerID=Players.playerid

--use playerID to connect 2 tables

GROUP BY Batting.playerID,namefirst,namelast

Having SUM(Hits)=3000

b)what year was he inducted into the hall of fame?

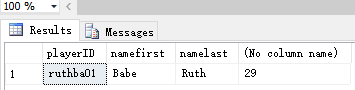


SELECT playerID,yearid,inducted FROM HallOfFame

WHERE playerID='clemero01'

3

what player had the highest number of homeruns in 1919?



SELECT TOP 1 Batting.playerID,namefirst,namelast,SUM(Homeruns) FROM Batting,Players

--use top 1 to choose the first row from result

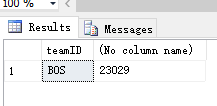
WHERE yearid=1919 AND Batting.playerID=Players.playerid

GROUP BY Batting.playerID,namefirst,namelast

ORDER BY SUM(Homeruns) DESC

4

what team has had the most hits after the year 2000, how many?



SELECT TOP 1 teamID,SUM(Hits) FROM Batting

WHERE yearID>2000

--choose teams' sum of hits after year 2000

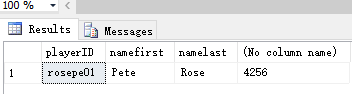
GROUP BY teamID

ORDER BY SUM(Hits) DESC

5

a)what player has the most cumulative hits?

b)how many does he have?



SELECT TOP 1 Batting.playerID,namefirst,namelast,SUM(Hits) FROM Batting,Players

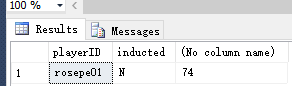
WHERE Batting.playerID=Players.playerid

Group by Batting.playerID,namefirst,namelast

Order by SUM(Hits) DESC

c)is he in the hall of fame?

d)how many votes has he received total?



SELECT playerID, inducted,SUM(votes) FROM HallOfFame

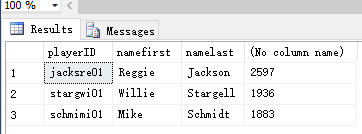
WHERE playerID='rosepe01'

Group by playerID

6

a)what 3 players have the highest number of cumulative strikeouts over their career that have been inducted into the hall of fame?

b)how many total strikeouts do they each have?



SELECT TOP 3 HallOfFame.playerID,namefirst,namelast,SUM(strikeOuts) FROM Batting,HallOfFame,Players

WHERE HallOfFame.playerID=Batting.playerID AND HallOfFame.playerID=Players.playerid AND inducted='Y'

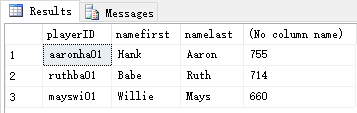
--connect 3 tables with playerID and set inducted value as Y

Group by HallOfFame.playerID,namefirst,namelast

ORDER BY SUM(strikeOuts) DESC

7

a)what 3 players have the highest cumulative total number of homeruns and have been inducted into the hall of fame?



SELECT TOP 3 HallOfFame.playerID,namefirst,namelast,SUM(Homeruns) FROM Batting,HallOfFame,Players

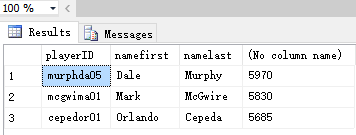
WHERE HallOfFame.playerID=Batting.playerID AND HallOfFame.playerID=Players.playerid AND inducted='Y'

--connect 3 tables with playerID and set inducted value as Y

Group by HallOfFame.playerID,namefirst,namelast

ORDER BY SUM(Homeruns) DESC

b)what 3 players have the highest cumulative total number of homeruns and have NOT been inducted into the hall of fame?



SELECT TOP 3 HallOfFame.playerID,namefirst,namelast,SUM(Homeruns) FROM Batting,HallOfFame,Players

WHERE HallOfFame.playerID=Batting.playerID AND HallOfFame.playerID=Players.playerid AND inducted='N'

--connect 3 tables with playerID and set inducted value as N

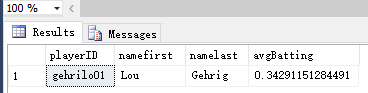
Group by HallOfFame.playerID,namefirst,namelast

ORDER BY SUM(Homeruns) DESC

8)

what player had the highest batting average from 1930 to 1940 with a cumulative total of hits over 1800 and

has NOT been elected into the hall of fame? batting average = hits/atbats



SELECT Batting.playerID,SUM(Hits) as SUMHits,SUM(Atbats) as SUMAt into BatAVG

--Caculate the sum of Hits and sum of Atbats and save as sh and sab in table BatAVG

FROM Batting

WHERE yearID between 1930 AND 1940

GROUP BY playerID

--Caculate the sum of Hits and sum of Atbats by players

SELECT TOP 1 BatAVG.playerID,namefirst,namelast,CAST(SUMHits as float)/SUMAt as avgBatting FROM BatAVG,Players

--use cast to get the average of Hits/Atbats

--use float to preserve decimals

WHERE BatAVG.playerID=Players.playerid AND SUMAt>0 AND SUMHits>1800 AND BatAVG.playerID IN

--Get the average of Hits/Atbats only if the sum of Atbats>0 and Hits over 1800

(SELECT HallOfFame.playerID FROM HallOfFame

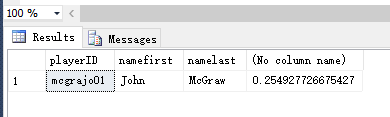
--choose the players not inducted in the hall of fame,nesting query

WHERE inducted='N')

ORDER BY avgBatting DESC

9)

what player averaged the highest number of walks from 1900-1920 with over 500 atbats?



SELECT playerID,SUM(Walks) AS SUMWalks,SUM(Atbats) AS SUMAt

INTO WalkAVG

--Create a table called WalkAVG to save the sum of walks and sum of Atbats records

FROM Batting

WHERE yearID BETWEEN 1900 AND 1920

GROUP BY playerID

--Caculate the sum of Walks and sum of Atbats by players

SELECT TOP 1 WalkAVG.playerID,namefirst,namelast,CAST(SUMWalks AS float)/SUMAt

FROM WalkAVG,Players

WHERE WalkAVG.playerID=Players.playerid AND SUMAt>500

ORDER BY CAST(SUMWalks AS float)/SUMAt DESC