1. Manager Evaluation :

select mid,SEASON\_YEAR,sum(games),sum( wins), sum(losses) from MANAGERYEAR group by mid, season\_year order by season\_year asc;

// rank is like not clear what exactly it is representing so we are not using it

// by adding the stint in the query we can also compare the manager’s performance in each stint

so algo can be :

win rate : no. wins / total no. of games played

loss rate : no. loss/ total no. of games played

// can’t make anything abut the rank and the season winning manager from the tables.

1. Player Impact Analyzer

// calculate the average games per PID i.e n;

select avg(sum) from (

select distinct PID, sum(games) sum from STATYEAR

group by PID);

// take the ratio of these two tuples and weights for each attribute is

Singles : 1 / n

Doubles : 2/n

Triples : 3/n

Home runs:4/n

Stolen bases: 2/n

Hits: .5/n

Strikeouts: -3/n

rbi : 4/n

stolenbase : 2/n

select avg(sing) singles, avg(doub) doubles, avg(tri) triples,avg(rbi) rbi , avg(stol) stolenbases, avg(hit) hits , avg(strike) strikeouts, avg(hmruns) homeruns from(

select PID,sum(singles) sing, sum(doubles) doub, sum(triples) tri, sum (rbi) rbi, sum (stolen\_bases) stol , sum(hits) hit, sum(home\_runs) hmruns,sum(strikeouts) strike from BATYEAR

group by PID) union

select avg(sing) singles, avg(doub) doubles, avg(tri) triples,avg(rbi) rbi , avg(stol) stolenbases, avg(hit) hits , avg(strike) strikeouts, avg(hmruns) homeruns from(

select PID,sum(singles) sing, sum(doubles) doub, sum(triples) tri, sum (rbi) rbi, sum (stolen\_bases) stol , sum(hits) hit, sum(home\_runs) hmruns,sum(strikeouts) strike from BATYEAR

group by PID having PID='adamsgl01') ;

//

putouts : 1/n

assists : 1.5/n

errors : -2/n

double\_plays : 3/n

select avg(put) putouts, avg(assist) assists, avg(error) errors,avg(doubleplay) double\_plays from(

select PID,sum(putouts) put, sum(assists) assist, sum(errors) error, sum (double\_plays) doubleplay from FIELDYEAR

group by PID having PID='adamsgl01') union

select avg(put) putouts, avg(assist) assists, avg(error) errors,avg(doubleplay) double\_plays from(

select PID,sum(putouts) put, sum(assists) assist, sum(errors) error, sum (double\_plays) doubleplay from FIELDYEAR

group by PID);

//

outs: 1/n

shutouts : 5/n

homeruns : -2/n

walks : -1/n

strikeouts: 1/n

select avg(win) wins, avg(loss) losses, avg(save) saves ,avg(out) outs , avg(homerun) homeruns , avg(walk) walks ,avg(strikeout) strikeouts from(

select PID,sum(wins) win, sum(losses) loss, sum(saves) save, sum(outs) out, sum(homeruns) homerun, sum(walks) walk , sum(strikeouts) strikeout from PITCHYEAR

group by PID having PID='adamsgl01')union

select avg(win) wins, avg(loss) losses, avg(save) saves ,avg(out) outs , avg(homerun) homeruns , avg(walk) walks ,avg(strikeout) strikeouts from(

select PID,sum(wins) win, sum(losses) loss, sum(saves) save, sum(outs) out, sum(homeruns) homerun, sum(walks) walk , sum(strikeouts) strikeout from PITCHYEAR

group by PID );

1. Player Value Evaluation

select fname,lname,team\_name,season\_year from PLAYER P, statyear S

where P.pid = S.pid and P.pid in( select PID from statyear where salary

=(select MAX(SALARY) from STATYEAR )) order by season\_year asc;

--- median salary for a particular season

// this query gives you a separate column for a median salary and the player’s current salary for a particular year

// I think making a separate view you can compare the players’s salary with the median

// some of the values are null in the beginning year so in the options you may limit this beginning 1984

// formula here can be

his impact (bat, field, pitch) / ratio of the salary and median salary

select p.pid,

p.fname,

p.lname,

season\_year,

team\_name,

salary,

percentile\_disc(0.5) within group (order by salary desc)

over (partition by season\_year) median

from statyear syear, player p where syear.pid= p.pid and season\_year > 1984;

Formulas ::