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DAT200

Queries

1. **List all currently active players in a given league**

select distinct c.playerID

from contract c join team t

on c.teamID = t.teamID

where t.leagueID = 1;

1. **Display all of a user’s created teams**

select teamID

from team

where userID = (select userID from user where nameFirst='Thomas' and nameLast='Garcia');

1. **Display the total fantasy score of a team’s players for a given week**

select sum(o.passYards/25) + sum(o.rushYards/10) + sum(o.recYards/10) + 6\*sum(o.touchdowns) -2\*sum(o.interceptions) as "Offensive Score",

sum(d.sacks) + 2\*sum(d.safeties) + 6\*sum(d.touchdowns) + 2\*sum(d.blocks)\*2\*sum(d.interceptions) as "Defensive Score",

sum(o.passYards/25) + sum(o.rushYards/10) + sum(o.recYards/10) + 6\*sum(o.touchdowns) -2\*sum(o.interceptions) +

sum(d.sacks) + 2\*sum(d.safeties) + 6\*sum(d.touchdowns) + 2\*sum(d.blocks)\*2\*sum(d.interceptions) as "Fantasy Score"

from contract c left outer join offense o

on c.playerID = o.playerID and o.gameNumber=10

left outer join defense d

on c.playerID = d.playerID and d.gameNumber=10

where c.teamID='Team0';

1. **Display the total fantasy score of team’s players over a given time period**

select sum(o.passYards/25) + sum(o.rushYards/10) + sum(o.recYards/10) + 6\*sum(o.touchdowns) -2\*sum(o.interceptions) as "Offensive Score",

sum(d.sacks) + 2\*sum(d.safeties) + 6\*sum(d.touchdowns) + 2\*sum(d.blocks)\*2\*sum(d.interceptions) as "Defensive Score",

sum(o.passYards/25) + sum(o.rushYards/10) + sum(o.recYards/10) + 6\*sum(o.touchdowns) -2\*sum(o.interceptions) +

sum(d.sacks) + 2\*sum(d.safeties) + 6\*sum(d.touchdowns) + 2\*sum(d.blocks)\*2\*sum(d.interceptions) as "Fantasy Score"

from contract c left outer join offense o

on c.playerID = o.playerID and o.gameNumber between 1 and 10

left outer join defense d

on c.playerID = d.playerID and d.gameNumber between 1 and 10

where c.teamID='Team0';

1. **Simulate a matchup between two teams in a given week**

select c.teamID as "Winner", sum(o.passYards/25) + sum(o.rushYards/10) + sum(o.recYards/10) + 6\*sum(o.touchdowns) -2\*sum(o.interceptions) +

sum(d.sacks) + 2\*sum(d.safeties) + 6\*sum(d.touchdowns) + 2\*sum(d.blocks)\*2\*sum(d.interceptions) as "Fantasy Score"

from contract c left outer join offense o

on c.playerID = o.playerID and o.gameNumber=10

left outer join defense d

on c.playerID = d.playerID and d.gameNumber=10

where c.teamID='Team0' or c.teamID='Team1'

group by c.teamID

order by 2 desc

limit 1;

1. **Show the most valuable fantasy players on offense and defense for the whole season**

select c.playerID, o.position, sum(o.passYards/25) + sum(o.rushYards/10) + sum(o.recYards/10) + 6\*sum(o.touchdowns) -2\*sum(o.interceptions)

as "Offensive Score"

from contract c join offense o

on c.playerID = o.playerID

group by c.playerID, o.position

order by 3 desc;

select c.playerID, sum(d.sacks) + 2\*sum(d.safeties) + 6\*sum(d.touchdowns) + 2\*sum(d.blocks)\*2\*sum(d.interceptions) as "Defensive Score"

from contract c join defense d

on c.playerID = d.playerID

group by c.playerID

order by 2 desc;

1. **View free agents at a given position**

select distinct playerID

from offense

where playerID not in (select playerID from contract where teamID in (select teamID from team where leagueID = 1))

and position = 'QB';

1. **View the number of contracts active in each league**

select teamID, count(\*) as "Number of active contracts"

from contract

where teamID in (select teamID from team where leagueID=1)

group by teamID;

1. **View offensive records: most rush yards, most pass yards, most receiving yards, most touchdowns**

select playerID as "Player", sum(rushYards) as "Rush yards"

from offense

group by playerID

order by sum(rushYards) desc

limit 1;

1. **View defensive records**

select playerID as "Team", sum(sacks) "Sacks"

from defense

group by playerID

order by sum(sacks) desc

limit 1;