Individual Player Features and Analysis

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* Where has he played?
  + done
* Which players has he played with?
  + For how long?
  + Done – with minor fixes needed next
  + See <https://www.basketball-reference.com/play-index/lineup_finder.cgi?request=1&match=single&lineup_type=2-man&output=per_poss&is_playoffs=N&year_id=2020&team_id=NOH&game_num_min=0&game_num_max=99&order_by=diff_pts>
* What positions has he played?
  + done
* Is there a relationship between positions?
  + hard
* Who has he shared the court with the longest?
  + Done

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* Has this player been traded?
  + Midseason trades
    - done
  + Total # of trades
    - done
* Player’s +/- per year, per career (BPM)
  + On-court +/- vs. on/off court +/- per year
  + done
* Individual player’s list of streaks, # of streaks per season
  + PPG, APG streaks for a championship season
  + Done
  + Eventual Question: How much overlap is there of streaks between teammates? Overlap over periods of time.
* List of injuries for a player
  + done
  + Team net rating for a week after player returns from injury
  + Team net rating for a week before player returns from injury
  + *changed to net rating during time player is injured*
  + Done

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* For each team that they’ve played for, what was that team’s net rating?
  + done
* For each team that they’ve played for, what was the team’s net rating on:
  + 0 days of rest?
  + 1 day of rest
  + 2 days of rest?
  + done
* What’s the strength of the schedule during the time period that a player was injured for? Combine this with the team’s net rating
  + done
* Compare the times when this Player X is injured vs. not injured. Take the +/- of the *other* players when Player X is injured, and compare it to the +/- of the other players when Player X is not injured
  + Changed to net rating
  + End-goal question: is Player X an alpha dog player?
  + Across all times/sequences Player X is injured
  + Done, for regular season only
* Take a Player X who was traded midseason. Find the +/- of the other players (Player X’s new teammates) for the week after Player X was traded. Find the +/- for other players for week before. Do same for overall team Net Rating.
  + Done for net rating

Coach Analysis:

* Who has he/she coached?
* Where has he/she coached, and for how long?

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* Case Study on: Milwaukee Bucks
* Run player analysis on each player on the Bucks. How much shared court time do they have with each other?
  + done
* Run injury analysis on each player on the Bucks. For times when each player was injured, take the average of the Net Rating.
  + Represents “team resiliency”
  + Keep in mind strength of schedule
  + done
* Find streaks for all players. Are there any overlapping streaks? Or is one sole player consistently recording points streaks?
  + done
  + Find metric of continuity of streaks
* Find percentages of time spent at each position. Are most of the players on the team “positionless” (they play many different positions)? How many of these players are there?
  + done
* Interesting notes to keep in mind for future features:
  + Giannis is obviously the strength of this roster, seems that everyone likes him
  + Brook Lopez and (somewhat) Robin Lopez have both been “journeymen” in the NBA, never really fitting anywhere in their past. Potential to compare player analysis from this year with their past teams?
  + Eric Bledsoe – slight drama, hotter personality (“who is Terry Rozier?”, requested trade from Suns). Might be worthwhile to analyze social media, postgame interviews, etc.
  + Khris Middleton – first G League alum to become NBA All Star
    - Do players rally behind this “feel good” story? Does Khris have wise words for G League players or two-way players like DJ Wilson or Thanasis Ante.
  + Kyle Korver – storied 3-point shooter. Has been a role player to shoot behind prime guys like LeBron James, Derrick Rose, Jimmy Butler.