IPL Auctions over the years:An overview

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Introduction

The following report shows an overview of auctions of Indian Premier League over the years. This report contains the <u>data</u> of 9 years i.e. from 2013 to 2022. This reflects some of the key factors of IPL Auctions such as "Most expensive players of each year and franchises of respective players", "Popularity of Indian and Overseas players", "Franchises with most amount spent" to name some. This analysis based upon yearly analysis i.e. each year analysed separately. In the end we mentioned the list of top players who made most appearances in the IPL Auctions of the given time period.

Now, we look at the data

```
df <- read_csv("IPL_Auction.csv")
## Rows: 970 Columns: 7
## -- Column specification ------
## Delimiter: ","
## chr (4): Player, Role, Team, Player Origin
## dbl (3): sr.no, Amount, Year
##
## i Use `spec()` to retrieve the full column specification for this data.
## is Specify the column types or set `show_col_types = FALSE` to quiet this message.
view(df)</pre>
```

Data cleaning process-

Now, let's have a look at the datatypes of each column rectify it if any;

Making column names consistent-

If we look at the "player.origin" and "Role" both are characters as of now but it would be suitable converting them into factors since both are categorical

```
df$player_origin <- as.factor(df$player_origin)
class(df$player_origin)
## [1] "factor"
levels(df$player_origin)
## [1] "Indian" "Overseas"
df$role <- as.factor(df$role)
class(df$role)
## [1] "factor"
levels(df$role)
## [1] "All-Rounder" "Batsman" "Bowler" "Wicket Keeper"</pre>
```

Now, let's have a look into dataset if there are some NA values-

```
df %>% map(~sum(is.na(.)))
## $sr no
## [1] 0
##
## $player
## [1] 0
##
## $role
## [1] 0
##
## $amount
## [1] 0
##
## $team
## [1] 0
##
## $year
## [1] 1
##
## $player origin
## [1] 0
```

So in the given data there's one NA in "Year". We'll try to find why it's not available-

Let's look around sr no. 314 and try to figure out if there is consistency in years

```
df %>%
  filter(sr no >= 290 & sr no <=350) %>% view()
```

Examining conditional data, any sort of consistency cannot be determined. Due to unavailability of other alternatives we have to drop that attribute so that it does not halt analysis process in later phases-

```
df <- df %>% drop na(year)
df %>% map(~sum(is.na(.)))
## $sr_no
## [1] 0
##
## $player
## [1] 0
##
## $role
## [1] 0
##
## $amount
## [1] 0
##
## $team
## [1] 0
##
## $year
## [1] 0
##
## $player_origin
## [1] 0
```

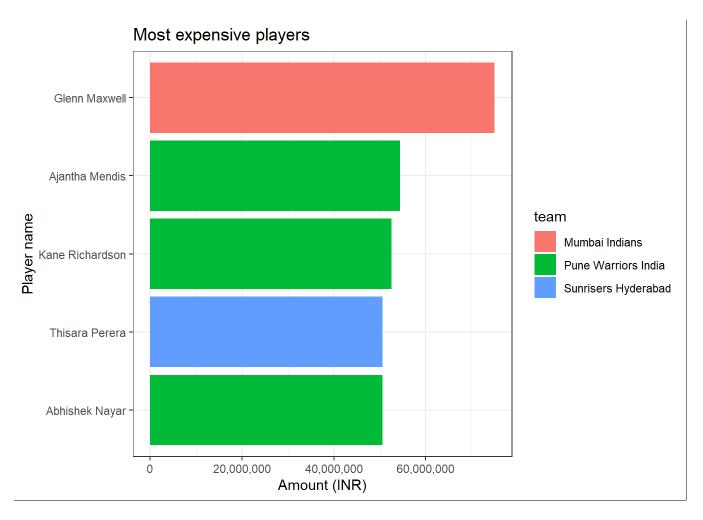
After completing data wrangling process and examining it, it seems accurate, clean and consistent and we can proceed to next phase i.e. analysis phase-

Exploratory Analysis-

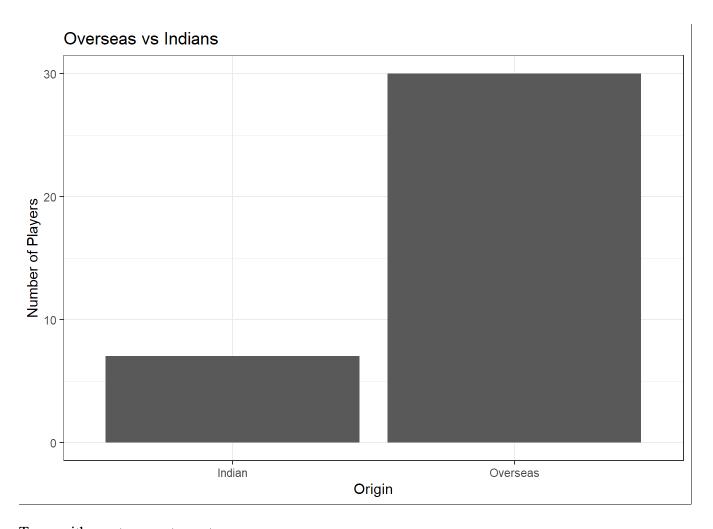
Year wise data processing

2013

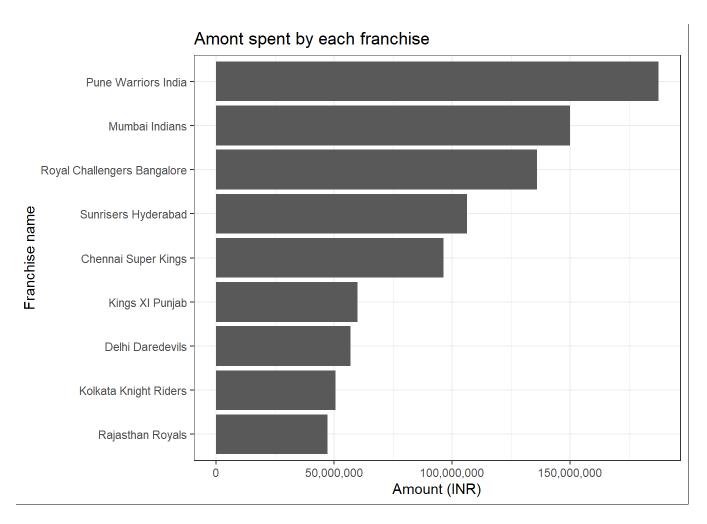
Most expensive players-



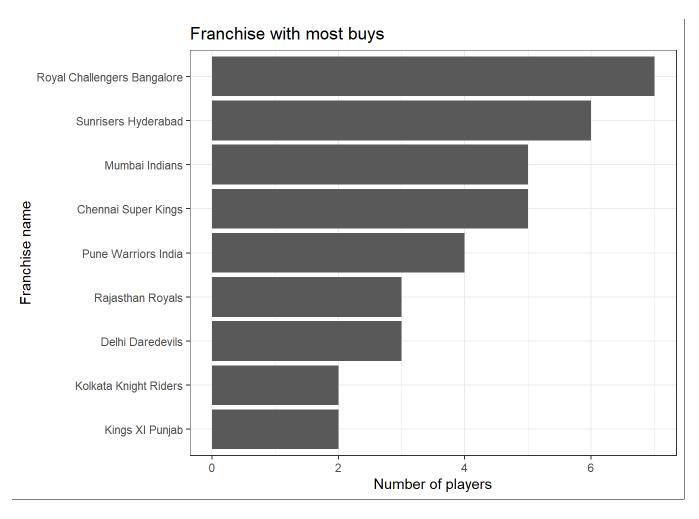
Overseas vs Indian players-



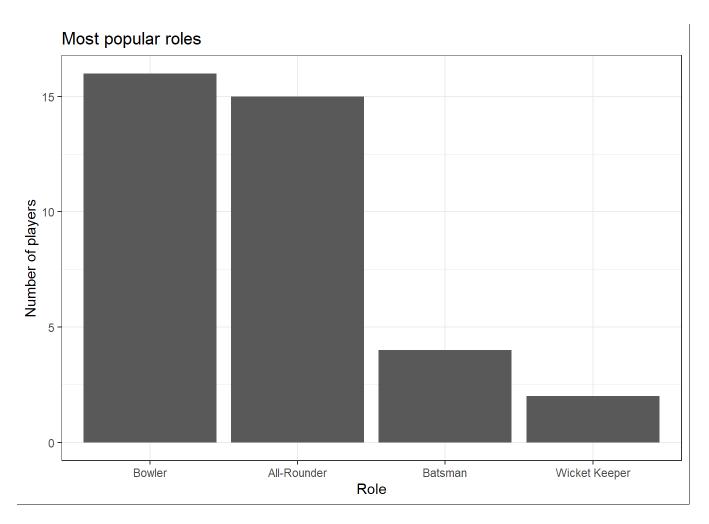
Team with most amount spent



Team with most buys-



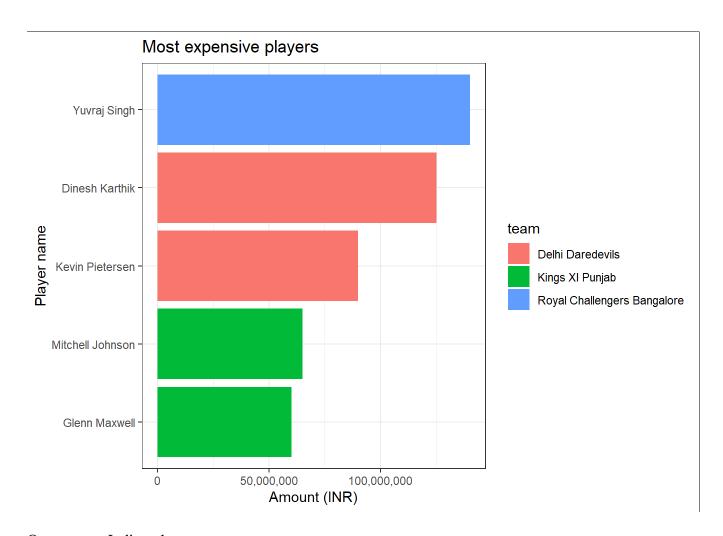
Most popular roles-



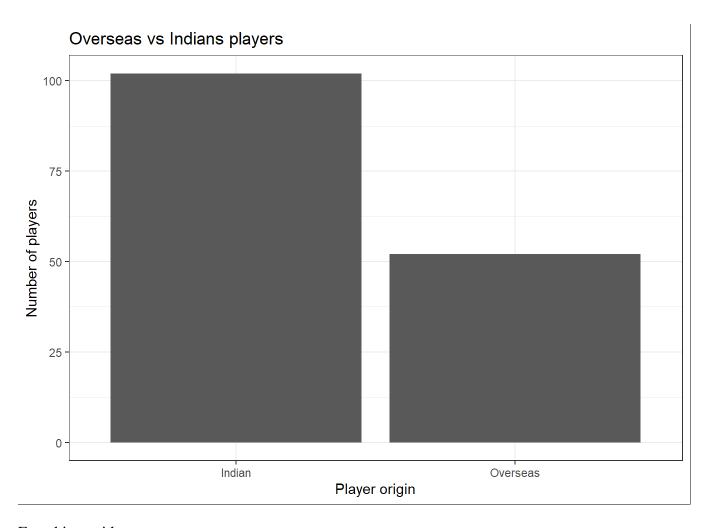
2014

Most expensive players-

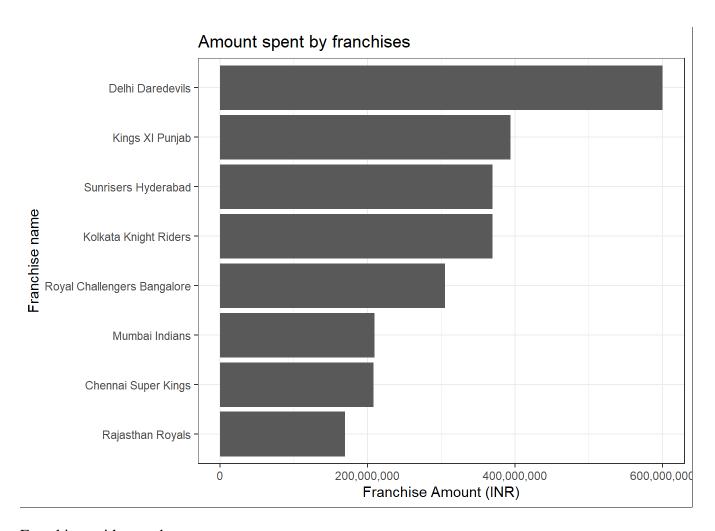
`summarise()` has grouped output by 'player', 'team'. You can override using the `.groups` argument.



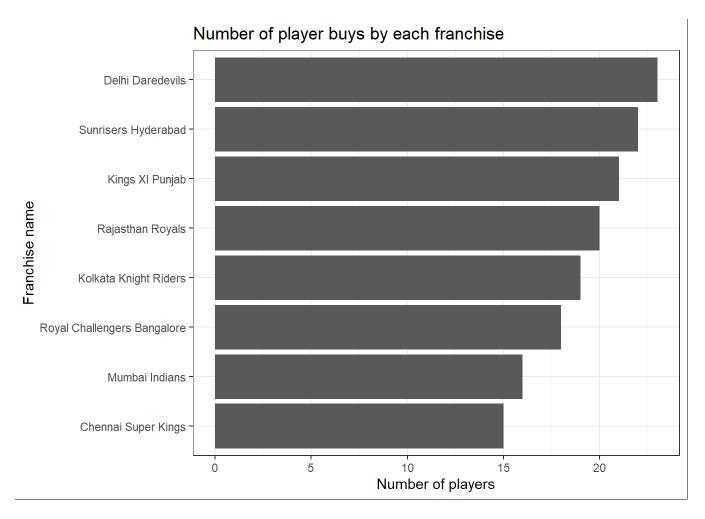
Overseas vs Indian players-



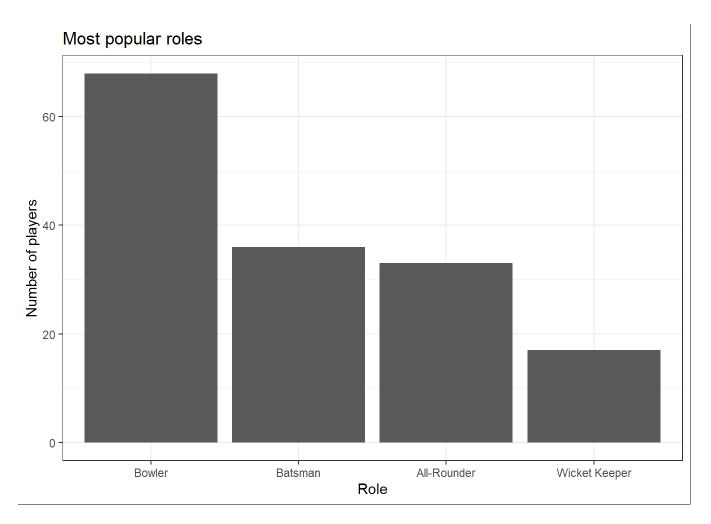
Franchises with amount spent-



Franchises with most buys-



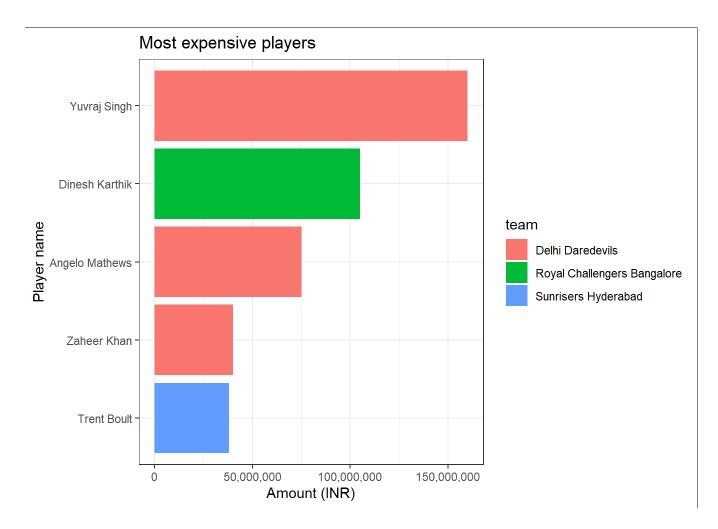
Most popular roles-



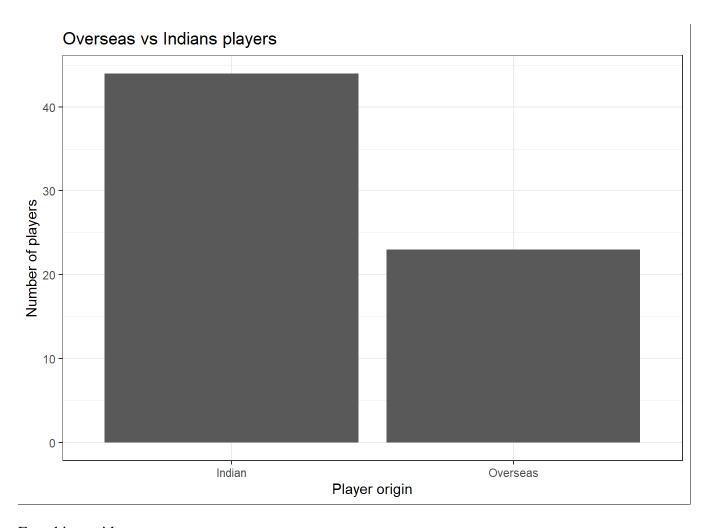
2015

Most expensive players-

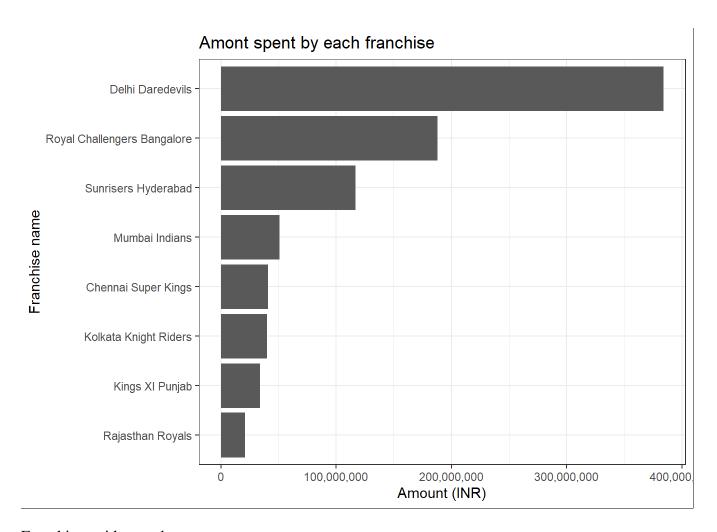
 $\mbox{\#\#}$ `summarise()` has grouped output by 'player'. You can override using the `.groups` argument.



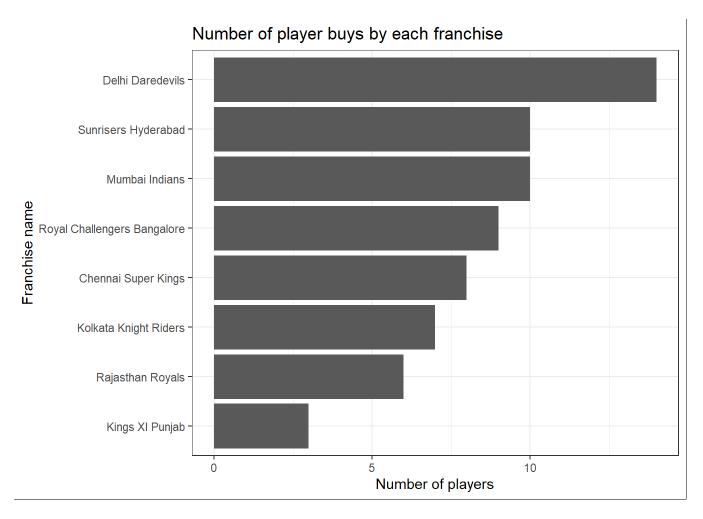
Overseas vs Indian players



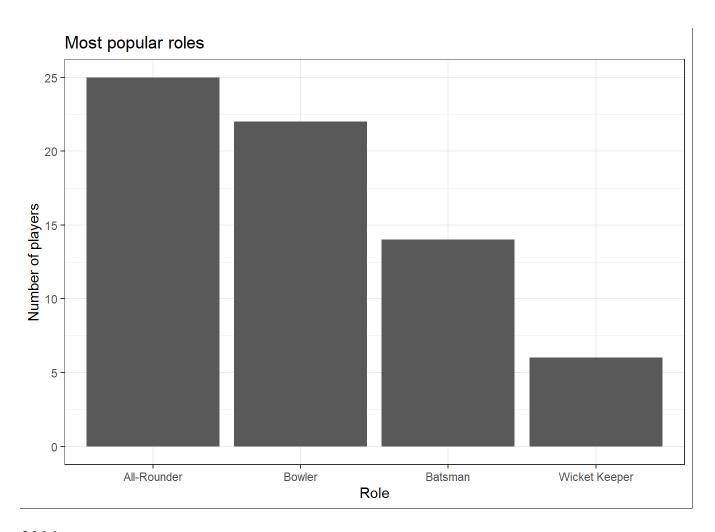
Franchises with amount spent-



Franchises with most buys-



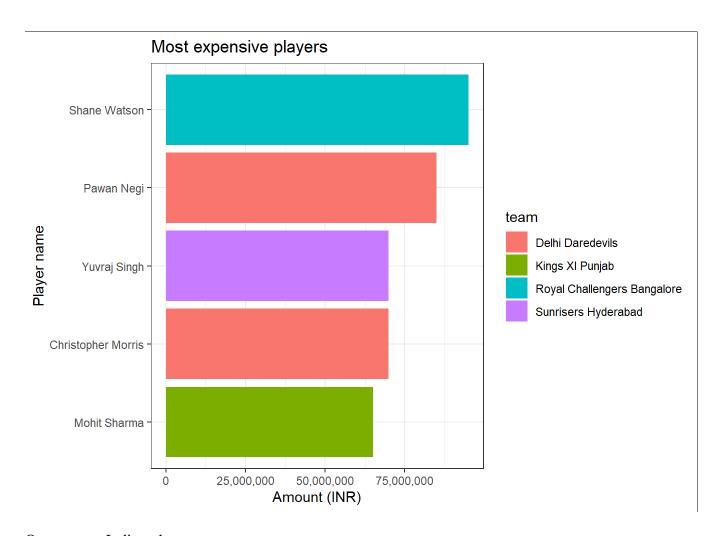
Most popular roles-



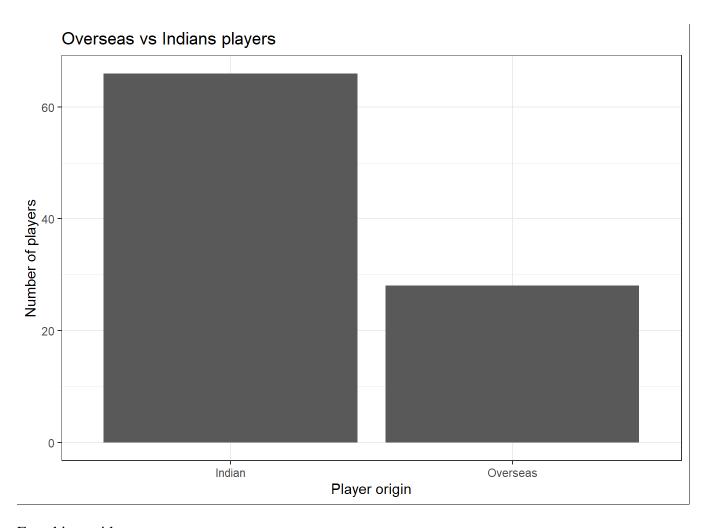
2016

Most expensive players-

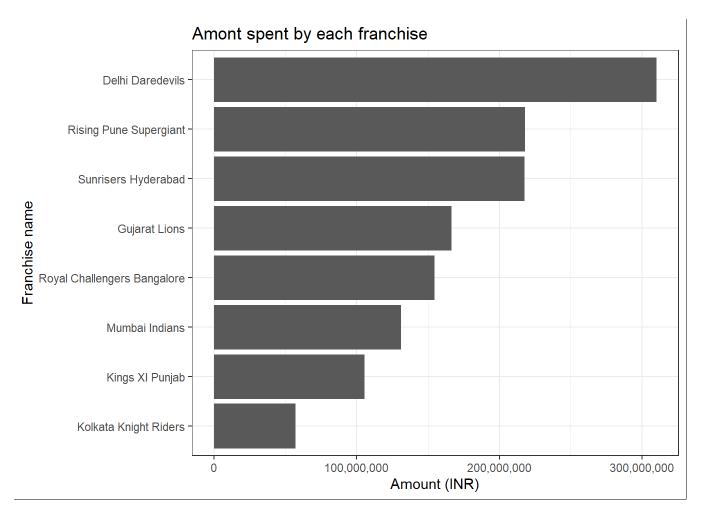
`summarise()` has grouped output by 'player', 'amount'. You can override using the `.groups` argument.



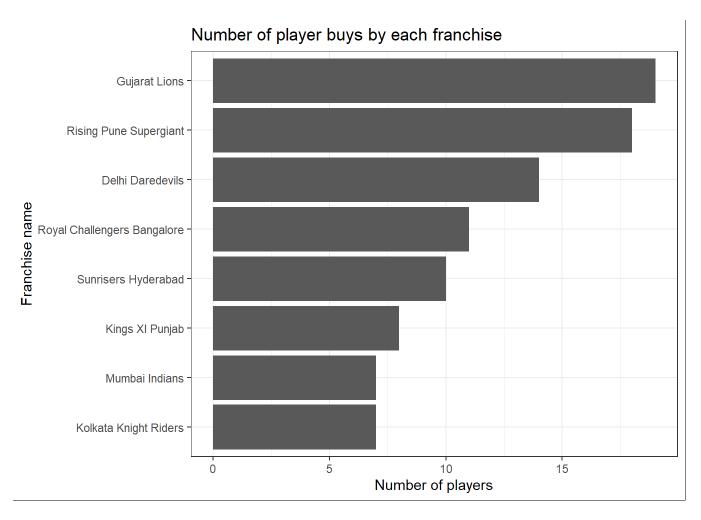
Overseas vs Indian players-



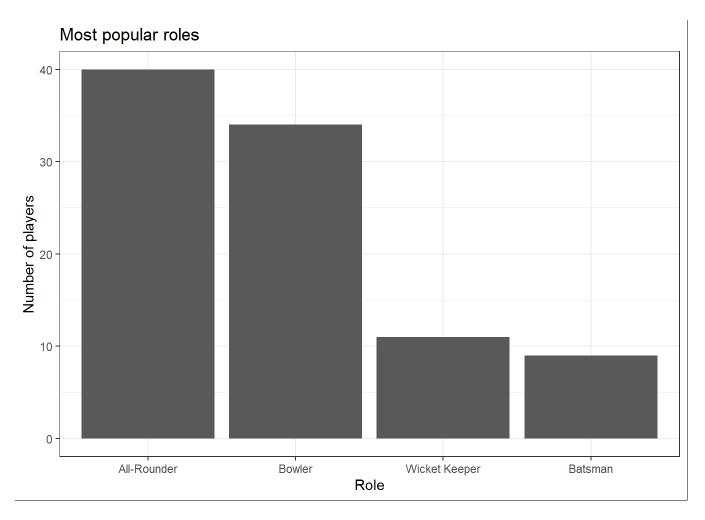
Franchises with amount spent-



Franchises with most buys-



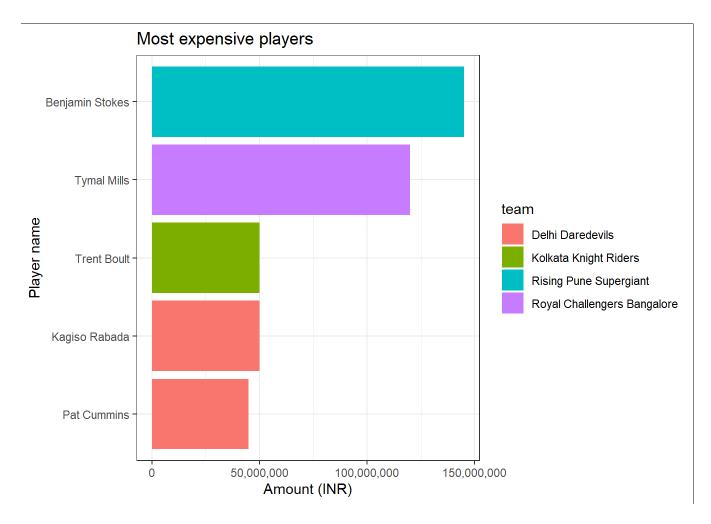
Most popular roles-



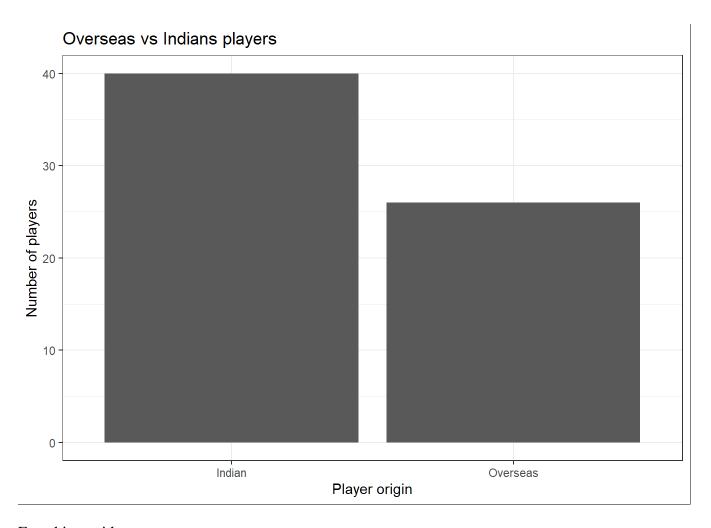
2017

Most expensive Players-

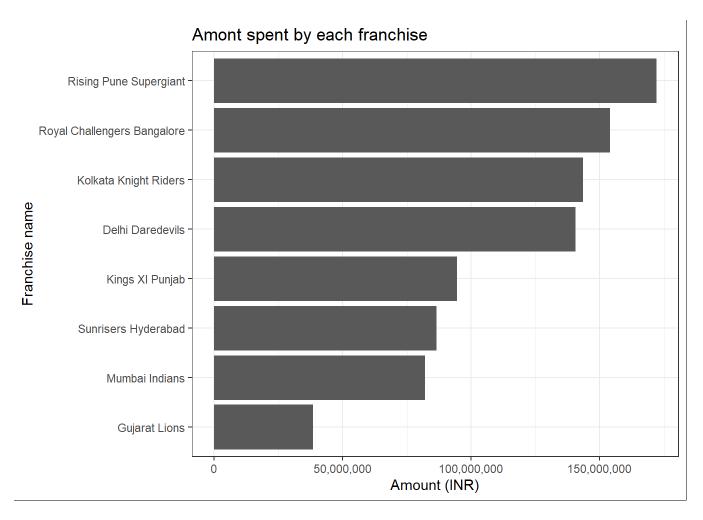
 $\mbox{\#\#}$ `summarise()` has grouped output by 'player'. You can override using the `.groups` argument.



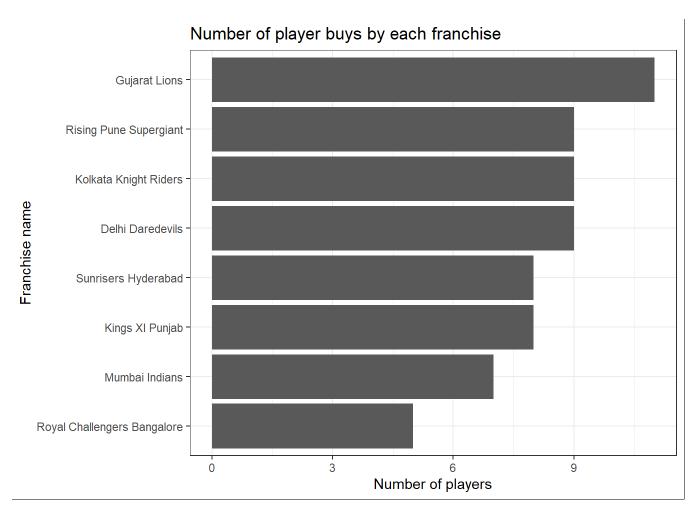
Overseas vs Indian players-



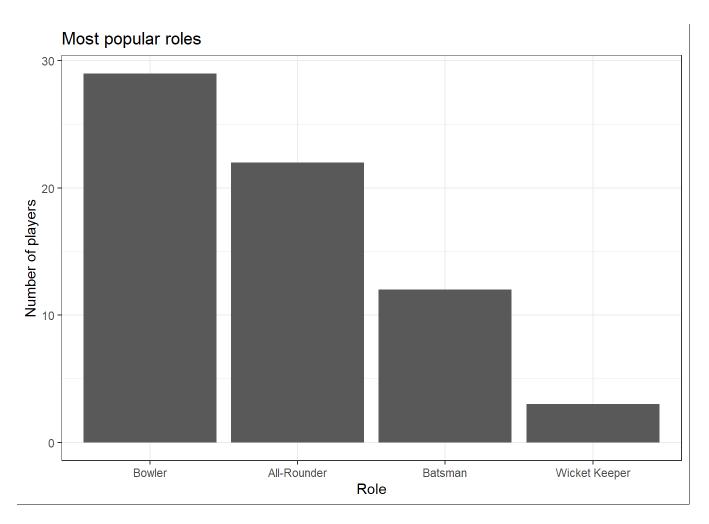
Franchises with amount spent-



Franchises with most buys-



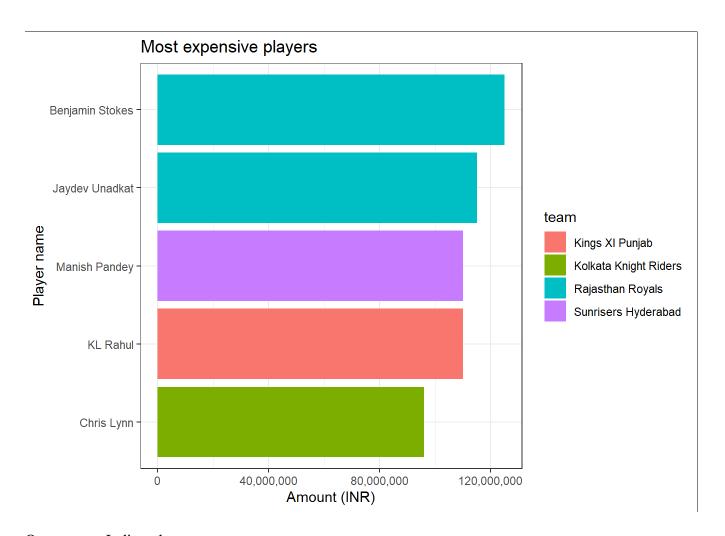
Most popular roles-



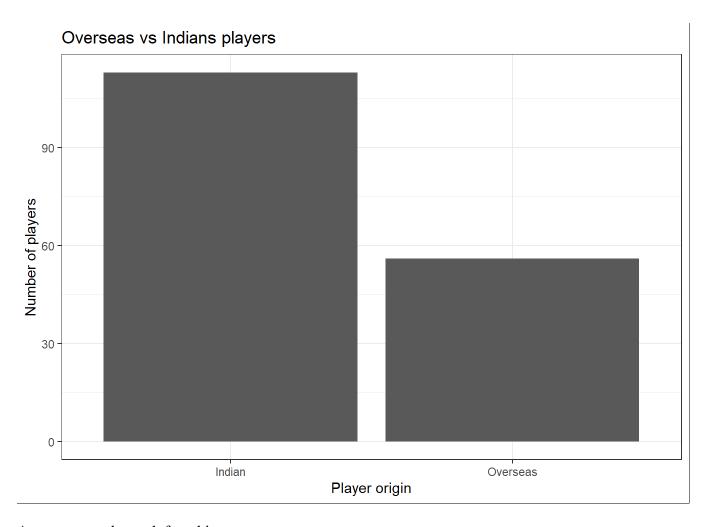
2018

Most expensive players-

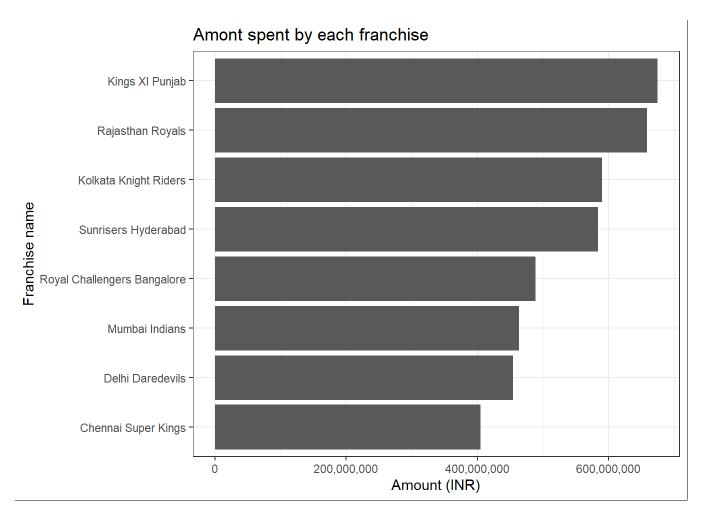
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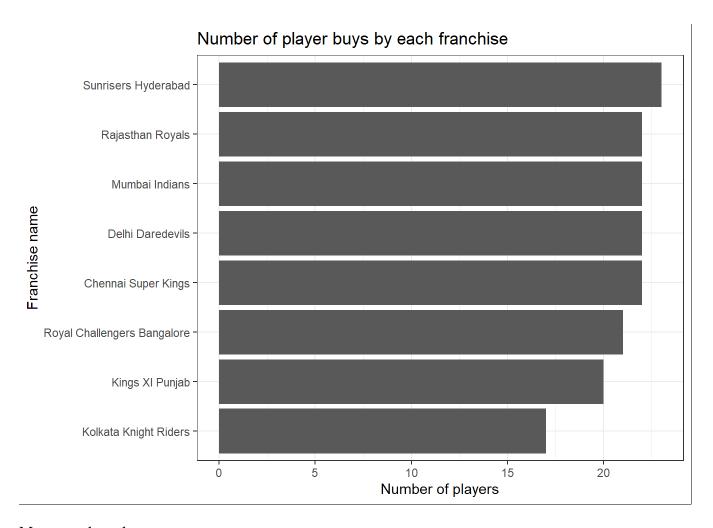
Overseas vs Indian players-



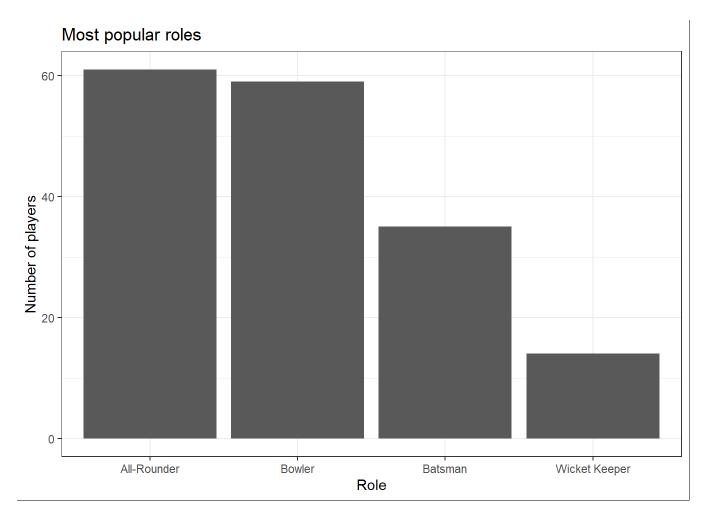
Amount spent by each franchise-



Franchise with most buys-



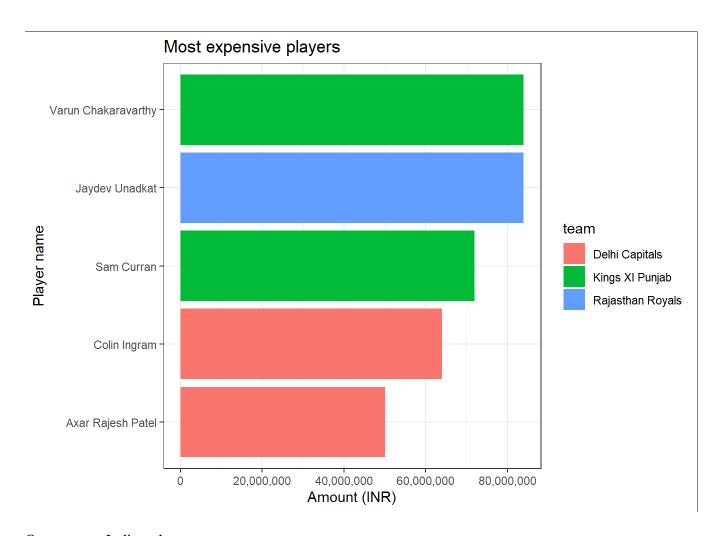
Most popular roles-



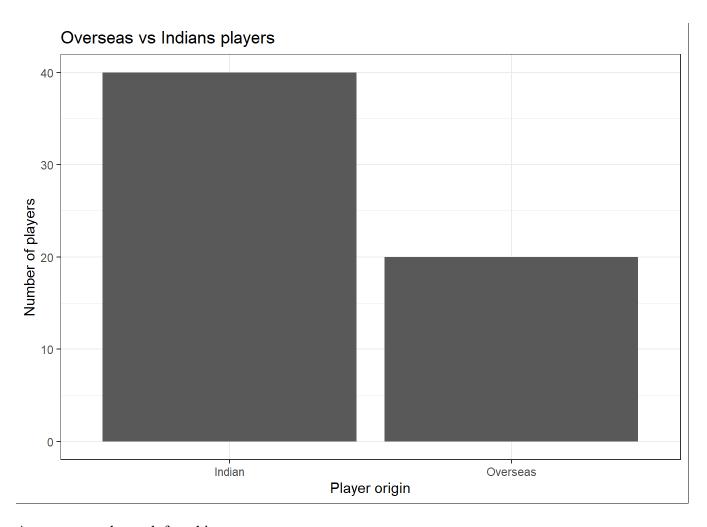
2019

Most expensive players-

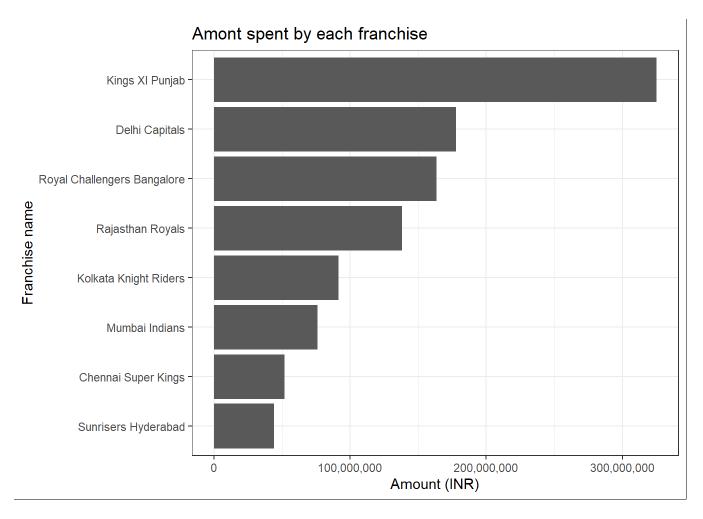
 $\mbox{\#\#}$ `summarise()` has grouped output by 'player'. You can override using the `.groups` argument.



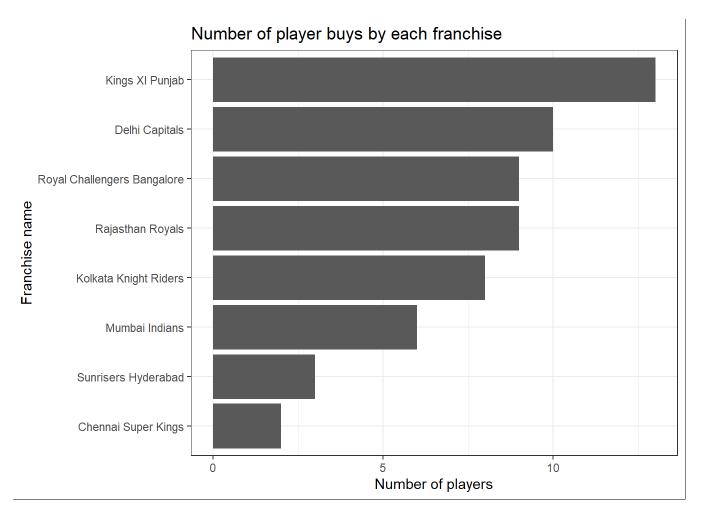
Overseas vs Indian players-

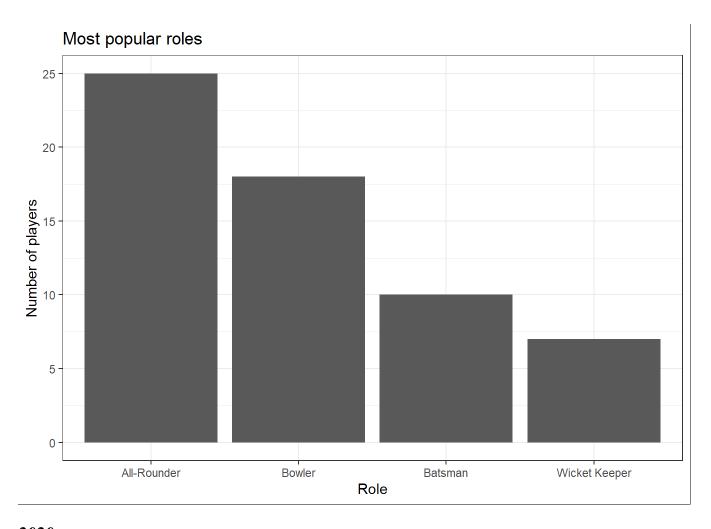


Amount spent by each franchise-



Franchises with most buys-

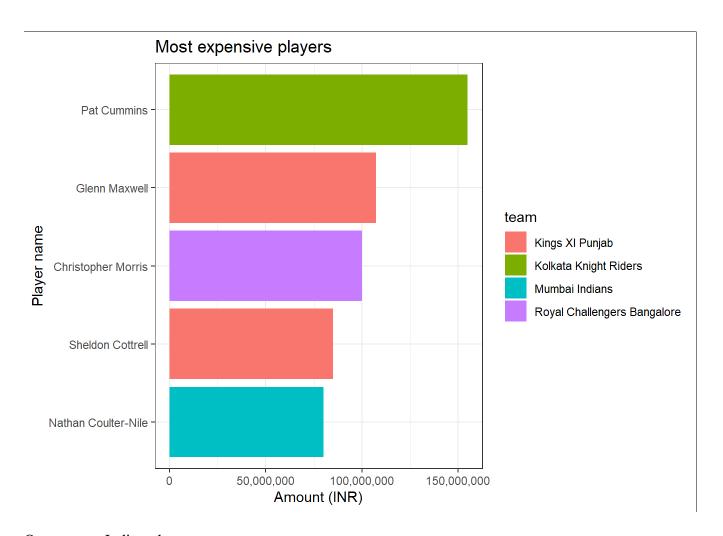




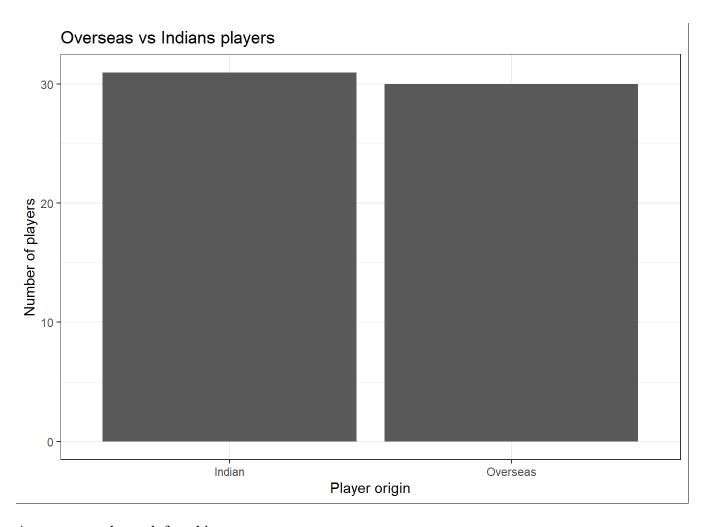
2020

Most expensive players-

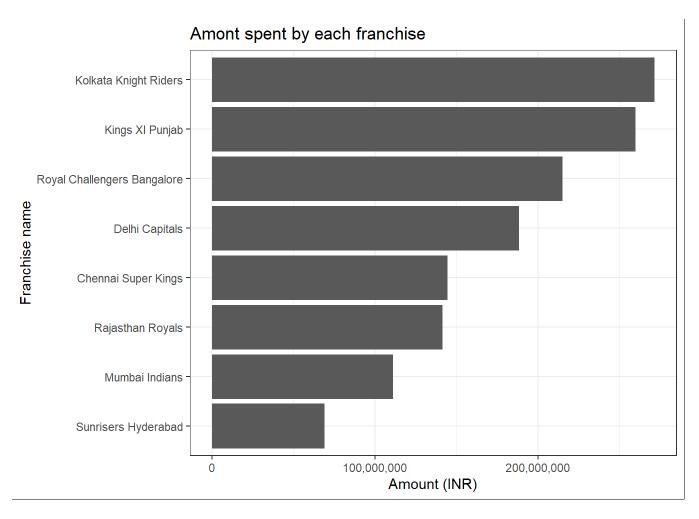
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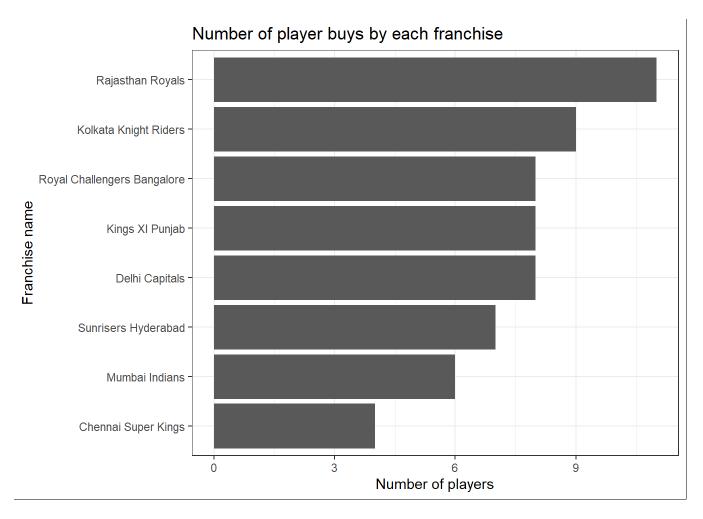
Overseas vs Indian players-

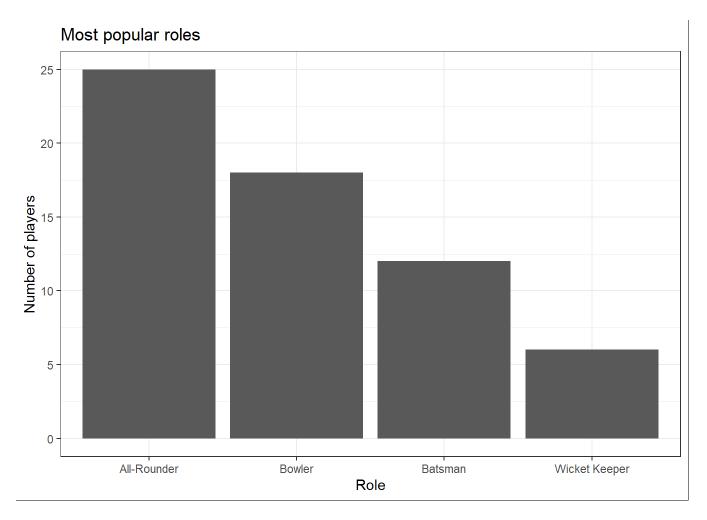


Amount spent by each franchise-



Franchises with most buys-

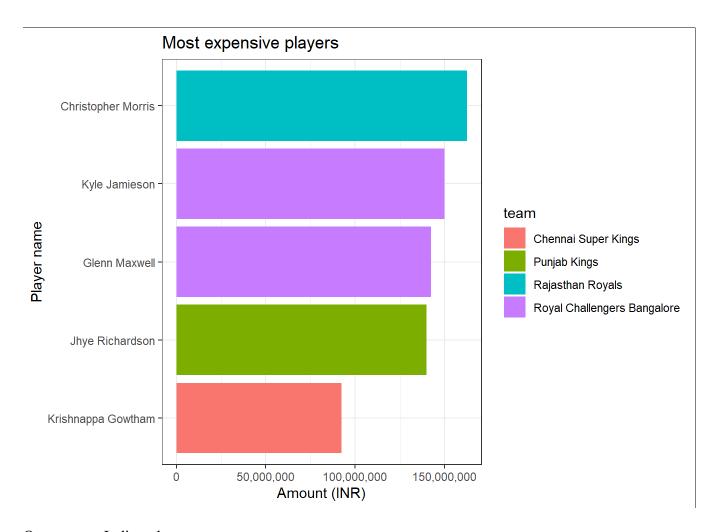




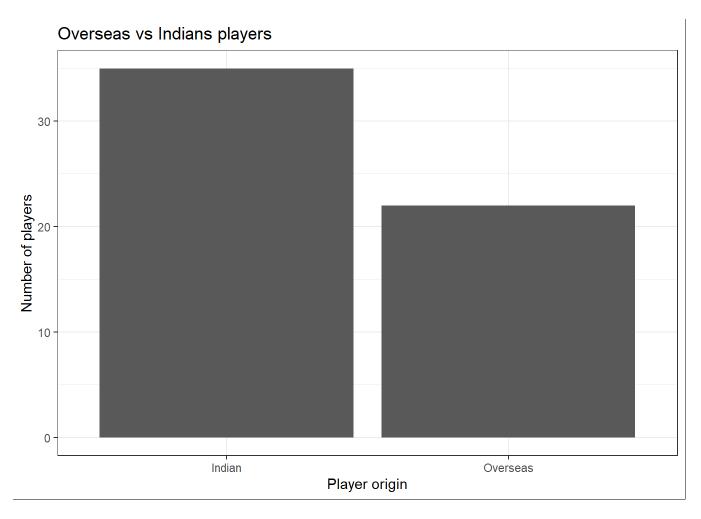
2021

Most expensive players-

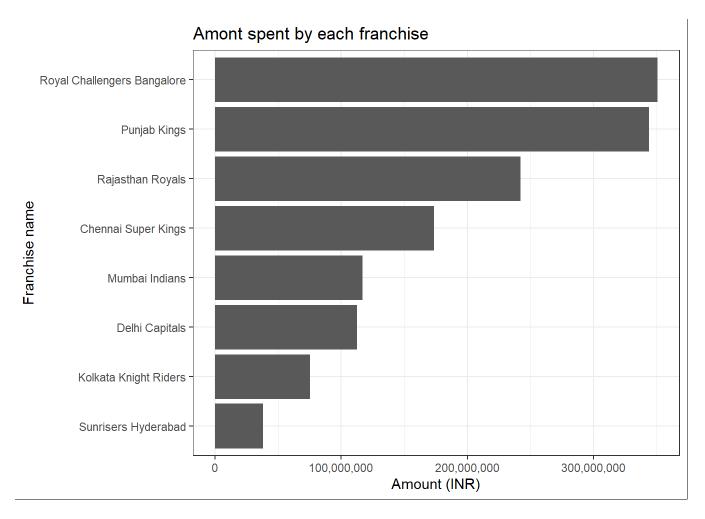
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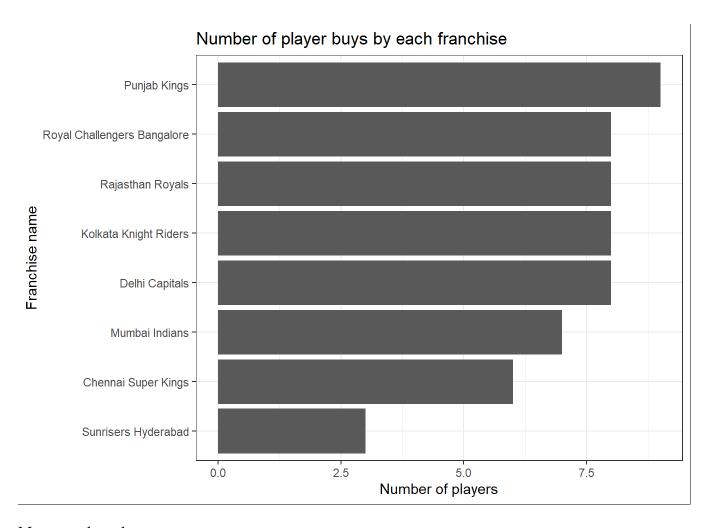
Overseas vs Indian players-

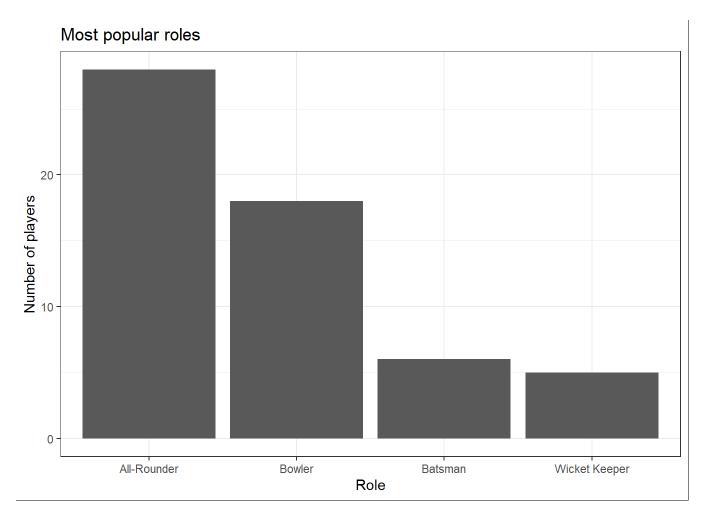


Amount spent by each franchise-



Franchises with most buys-

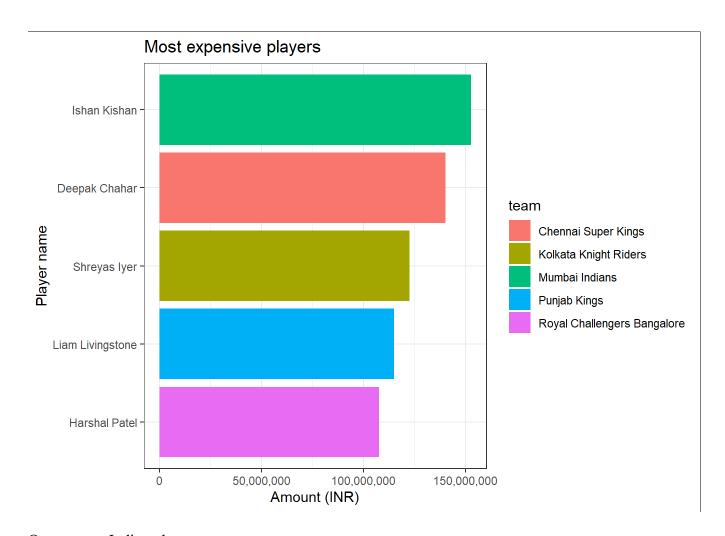




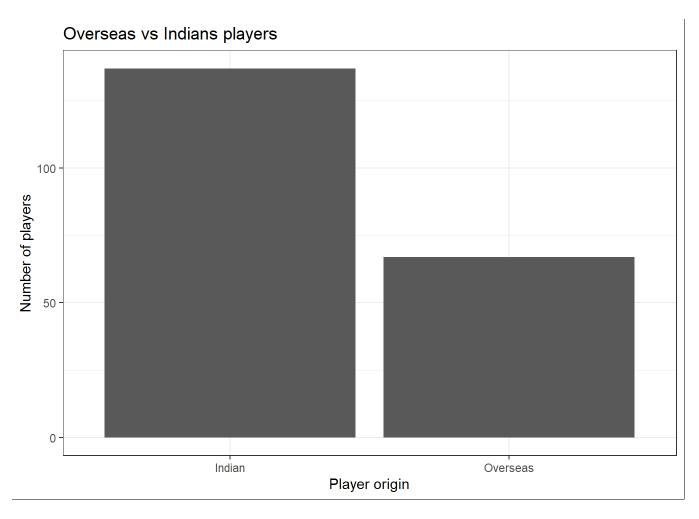
2022

Most expensive players-

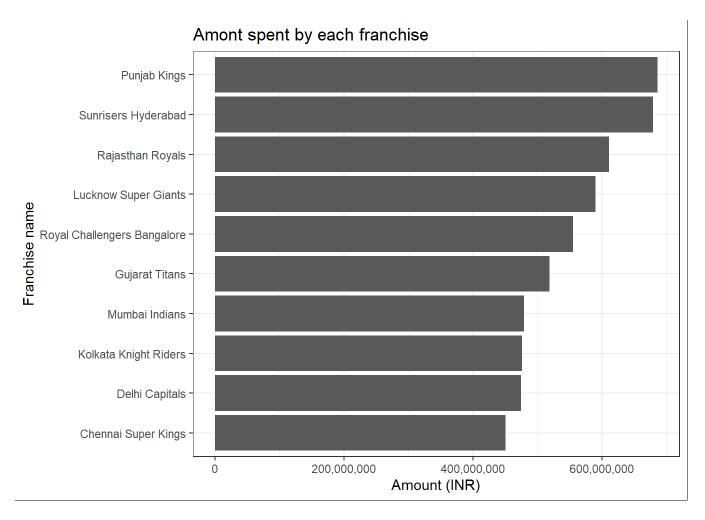
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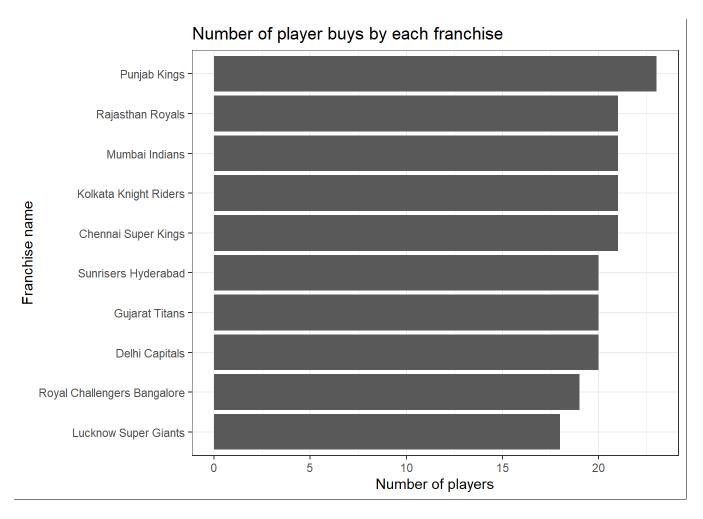
Overseas vs Indian players-

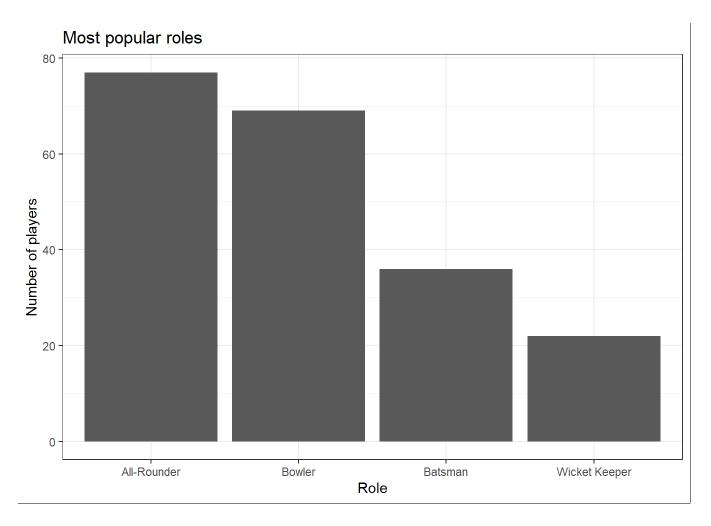


Amount spent by each franchise-

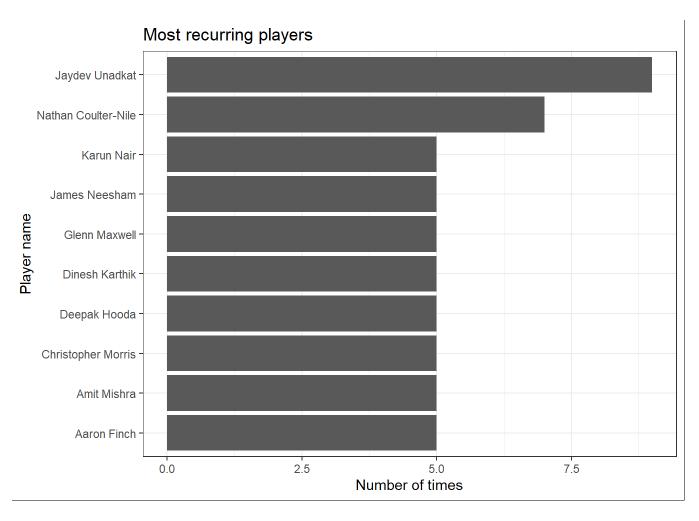


Franchises with most buys-





Most recurring players in auctions over the years-



Thank you