SQL Query:

select games players in lpl league whose position is mid in a descending order of name

```
select * from Players where League = 'LPL' and Position = 'mid' order by Name
DESC;
```

select all different League names from Players

```
select distinct League from Players;
```

ranks the number of player in different leagues in descending order

```
select League, count(*) as players_number
from Players
group by League
order by players_number DESC;
```

count the number of players in every position in every league

```
League,

SUM(CASE WHEN Position = 'top' THEN 1 ELSE 0 END) AS top,

SUM(CASE WHEN Position = 'bot' THEN 1 ELSE 0 END) AS bot,

SUM(CASE WHEN Position = 'jng' THEN 1 ELSE 0 END) AS jng,

SUM(CASE WHEN Position = 'sup' THEN 1 ELSE 0 END) AS sup,

SUM(CASE WHEN Position = 'mid' THEN 1 ELSE 0 END) AS mid

FROM Players

GROUP BY League;
```

get the number of players that belong to the same team

```
select Teamname, League, count(*) as players_number
from Players
group by TeamId
order by players_number DESC;
```

calculate the winning rate of red side and blue side

```
SELECT

win_side,

COUNT(*) / (SELECT COUNT(*) FROM Matches) * 100 AS win_percentage

FROM Matches

GROUP BY win_side;
```

//get team win rate of different side

```
select T.teamid, T.name, T.league, winrate.side, winrate.win_rate from
Team T
join
(select side, Teamid, Teamname,
CASE
```

```
WHEN COUNT(*) < 3 THEN NULL
ELSE CAST(SUM(result) AS FLOAT) / COUNT(*)
END AS win_rate
from TeamPerformance
Group by side, Teamid, Teamname) winrate
on T.TeamID = winrate.Teamid
order by T.league, T.name, winrate.side;</pre>
```

//get team win rate

//get player win rate and Number of wins and loses

//get team win rate in different season splits(eg. 2021 summer, 2021 Spring)

The query ranks all the players who are in LPL, play more than 5 matches, play game patch over 13 and take one position in the game, for example top, in the descending order of their damage per match.

```
SELECT P.Playername, P.Position, M.League, SUM(P.damagetochampions) as total_damage, AVG(P.damagetochampions) as damage_permatch

FROM PlayerPerformance P

JOIN (select *

FROM Matches

where Patch > 13 and league = "LPL") M on P.MatchID = M.MatchID

where P.Position = "top"

group by P.Playername, P.Position

HAVING count(*) > 5

order by damage_permatch DESC;
```

Database Credential:

Host: database-project-1.cbueggp9avkq.us-east-1.rds.amazonaws.com

User: admin

Password: 550project