1. Yankee Managers - List the name of everyone who has managed the New York Yankees.

**select nameFirst, nameLast from master**

**where master.masterid in**

**(select distinct managers.masterid**

**from managers, teams**

**where teams.name = 'New York Yankees'**

**and managers.teamid = teams.teamid**

**and managers.yearid = teams.yearid)**

1. Yankee Batters - For each year, list how many different players batted for the New York Yankees.

**select batting.yearid, count(masterid)**

**from batting, teams**

**where teams.name = 'New York Yankees'**

**and batting.teamid = teams.teamid**

**and batting.yearid = teams.yearid**

**group by batting.yearid**

**order by batting.yearid asc**

1. World Series Losers - List the name of each team that played in but lost the world series and number of world series that it has lost (the column WSWin in the Teams table has a N value if the team did not win the world series in that season, and has a Y in the LgWin column indicating it won the league). Each winner should be listed just once.

**select teams.name, count(teams.WSWin)**

**from teams**

**where teams.WSWin = 'N' and LgWin = 'Y'**

**group by teams.name**

**order by count desc**

1. Good Hitters - List the name of each player with more than 200 hits in a season in their career (hits made is the "H" column in the "Batting" table).

**select nameFirst, nameLast**

**from master where masterid in (select masterid**

**from batting**

**where batting.H > 200)**

1. List all the pitchers who have a first name of Roger.

**select nameFirst, nameLast**

**from master**

**where master.masterid in (select masterid**

**from pitching)**

**and nameFirst = 'Roger'**

1. Atlanta Braves centerfielders - List the first name and last name of every player that has played centerfield (use the Appearances table) at any time in their career for the Atlanta Braves. List each player only once.

**select nameFirst, nameLast**

**from master**

**where masterid in**

**(select distinct masterid**

**from appearances**

**where appearances.G\_cf > 0**

**and appearances.teamid in**

**(select distinct teamid**

**from teams**

**where teams.name = 'Atlanta Braves'))**

1. Winning streaks - Which teams (and years) won more games in each year for five consecutive years?

**with foo as (select name, yearId, W**

**from teams**

**order by name asc, yearId asc)**

**select t5.name, t1.yearId, t5.yearId, t1.W, t2.W, t3.W, t4.W, t5.W**

**from foo t1, foo t2, foo t3, foo t4, foo t5**

**where t2.name = t1.name**

**and t3.name = t1.name**

**and t4.name = t1.name**

**and t5.name = t1.name**

**and t2.yearId = t1.yearId+1**

**and t3.yearId = t1.yearId+2**

**and t4.yearId = t1.yearId+3**

**and t5.yearId = t1.yearId+4**

**and t2.W > t1.W**

**and t3.W > t2.W**

**and t4.W > t3.W**

**and t5.W > t4.W**

**order by t1.yearid**

1. Fire Sale Teams - List the total salary for two consecutive years, team name, and year for every team that had a total salary which was less than half that for the previous year

**with foo as (select yearId, teamId, sum(salaries.salary) as supersum**

**from salaries**

**group by teamId, yearId**

**order by yearId asc),**

**boo as (select t2.teamId, t2.supersum as TotalSalary, t2.yearId as year, t1.supersum as PreviousYearSalary, t1.yearid as PreviousYear**

**from foo t1, foo t2**

**where t2.teamId = t1.teamId**

**and t2.yearId = t1.yearId+1**

**and t2.supersum < (t1.supersum/2)**

**order by t2.yearId)**

**select t1.name, b1.totalsalary, b1.year, b1.previousyearsalary, b1.previousyear**

**from boo b1, teams t1**

**where b1.teamId = t1.teamId**

**and b1.year = t1.yearId**

1. Returning players - Let a stint be defined as a consecutive number of years in which a player appeared for some team (not necessarily the same team) and then did not appear for any team. List all players that had at least five stints.

**with my as (select distinct t1.masterid, t1.yearid**

**from appearances t1**

**order by t1.masterid, t1.yearid),**

**stinttable as (select \***

**from my t1**

**where t1.yearid+1 not in (select t2.yearid**

**from my t2**

**where t2.masterid = t1.masterid)),**

**temptable as (select st.masterid, count(\*)**

**from stinttable st**

**group by st.masterid**

**having count(\*) > 4)**

**select distinct t2.yearid, t3.namefirst, t3.namelast**

**from temptable t1, appearances t2, master t3**

**where t1.masterid = t2.masterid**

**and t1.masterid = t3.masterid**

**order by t3.namelast asc, t2.yearid asc**

1. Brooklyn Dodgers Pitchers - List the first name and last name of every player that has pitched for the team named the "Brooklyn Dodgers". List each player only once.

**select nameFirst, nameLast**

**from master**

**where master.masterid in(select pitching.masterid**

**from pitching, teams**

**where teams.name = 'Brooklyn Dodgers'**

**and pitching.teamid = teams.teamid**

**and pitching.yearid = teams.yearid)**

**order by nameLast, nameFirst asc**

1. Winningest Teams - List the winning percentage (wins divided by (wins + losses)) over a team's entire history. Consider a "team" to be a team with the same name, so if the team changes name, it is considered to be two different teams. Show the team name and win percentage.

**with boo as (select teams.name, teams.yearId, teams.W, teams.L**

**from teams**

**order by teams.name, teams.yearId),**

**foo as (select boo.name, sum(boo.W) as sumwins, sum(boo.L) as sumlosses**

**from boo**

**group by boo.name)**

**select foo.name, round(((foo.sumwins\*1.0)/(foo.sumwins+foo.sumlosses)), 4) as percentage,foo.sumwins, foo.sumlosses**

**from foo**

1. Triples ranking - Rank players by the number of triples (column 3B in the Batting table) they have hit in any season and list the top ten such rankings of players. For instance, the player(s) who hit the most in a season would have rank 1, the second most would be rank 2, etc. Note that there could be several players in a rank, e.g., five players with rank 4.

**with mid as (select batting.masterid, batting.threb**

**from batting**

**where batting.threb is not null**

**order by batting.threb desc),**

**namedtable as (select t1.nameFirst, t1.nameLast, t2.threb**

**from master t1, mid t2**

**where t1.masterid = t2.masterid),**

**rankedplayers as (select \*,**

**dense\_rank() over (**

**order by namedtable.threb desc**

**) rank\_no**

**from namedtable)**

**select t1.nameFirst, t1.namelast, t1.rank\_no, t1.threb**

**from rankedplayers t1**

**where t1.rank\_no < 11**

**order by t1.rank\_no**

1. Yankee Run Kings - List the name, year, and number of home runs hit for each New York Yankee batter, but only if they hit the most home runs for any player in that season.

**with NYB as (select batting.masterid, batting.yearId, batting.HR**

**from batting, teams**

**where teams.name = 'New York Yankees'**

**and batting.teamid = teams.teamid**

**and batting.yearid = teams.yearid),**

**allBattersBut as (select batting.masterid, batting.yearid, batting.HR**

**from batting, teams**

**where teams.name != 'New York Yankees'**

**and batting.teamid = teams.teamid**

**and batting.yearid = teams.yearid),**

**NYBHR as (select t1.masterid, t1.yearid, t1.hr**

**from NYB t1**

**left outer join NYB t2**

**on (t1.yearId = t2.yearId**

**and t1.HR < t2.HR)**

**where t2.yearId is null**

**and t1.hr is not null**

**order by t1.yearid),**

**ABBHR as (select t1.masterid, t1.yearid, t1.hr**

**from allBattersBut t1**

**left outer join allBattersBut t2**

**on (t1.yearId = t2.yearId**

**and t1.HR < t2.HR)**

**where t2.yearId is null**

**and t1.hr is not null**

**order by t1.yearid),**

**NYTOPHR as (select t1.\***

**from NYBHR t1, ABBHR t2**

**where t1.yearid = t2.yearid**

**and t1.HR > t2.HR**

**order by t1.yearid asc)**

**select t2.nameFirst, t2.nameLast, t1.yearid, t1.HR**

**from NYTOPHR t1, master t2**

**where t1.masterid = t2.masterid**

**group by t2.nameFirst, t2.nameLast, t1.yearid, t1.HR**

**order by t1.yearid**

<https://stackoverflow.com/questions/7745609/sql-select-only-rows-with-max-value-on-a-column>

1. Brooklyn Dodgers Only - List the first name and last name of every player that has played *only* for the Brooklyn Dodgers (i.e., they did not play for any other team including the Los Angeles Dodgers, note that the Brooklyn Dodgers became the Los Angeles Dodgers in the 1950s). List each player only once.

**with nt as (select t1.masterid, t3.namefirst, t3.namelast, t2.name**

**from appearances t1, teams t2, master t3**

**where t1.masterid = t3.masterid**

**and t1.yearid = t2.yearid**

**and t1.teamid = t2.teamid),**

**allbd as (select nt.namefirst, nt.namelast**

**from nt**

**where nt.name = 'Brooklyn Dodgers'),**

**alltraitors as (select nt.namefirst, nt.namelast**

**from nt**

**where nt.name != 'Brooklyn Dodgers'),**

**mt as (select \***

**from allbd**

**except**

**select \***

**from alltraitors)**

**select \***

**from mt**

**order by mt.namelast asc**

1. Third best home run hitters each year - List the first name, last name, year and number of home runs (column HR in the Batting table) of every player that hit the third most number of home runs for that year. Order by the year.

**with hrtable as (select t1.masterid, t1.yearid, t1.hr**

**from batting t1**

**where t1.hr is not null**

**order by t1.yearid, t1.hr),**

**subtable as (select \*,**

**dense\_rank() over (**

**partition by hrtable.yearid**

**order by hrtable.hr desc**

**) rank\_no**

**from hrtable)**

**select t2.namefirst, t2.namelast, t1.yearid, t1.hr**

**from subtable t1, master t2**

**where t1.rank\_no = 3**

**and t1.masterid = t2.masterid**

**order by t1.yearid asc**

1. Two degrees from Yogi Berra - List the name of each player who appeared on a team with a player that was at one time was a teamate of Yogi Berra. So suppose player A was a teamate of Yogi Berra. Then player A is one-degree of separation from Yogi Berra. Let player B be related to player A because A played on a team in the same year with player A. Then player A is two-degrees of separation from player A.

**with yid as (select t1.masterid**

**from master t1**

**where t1.namefirst = 'Yogi'**

**and t1.namelast = 'Berra'),**

**yty as (select yid.masterid, t1.teamid, t1.yearid**

**from appearances t1, yid**

**where t1.masterid = yid.masterid),**

**twodt as (select distinct b1.masterid**

**from appearances b1, yty y1, appearances a1, appearances ap1**

**where y1.masterid != a1.masterid**

**and y1.teamid = a1.teamid**

**and y1.yearid = a1.yearid**

**and a1.masterid = ap1.masterid**

**and a1.teamid != ap1.teamid**

**and a1.yearid != ap1.yearid**

**and b1.masterid != y1.masterid**

**and b1.masterid != ap1.masterid**

**and b1.teamid = ap1.teamid**

**and b1.yearid = ap1.yearid**

**order by b1.masterid)**

**select t1.namefirst, t1.namelast**

**from master t1, twodt**

**where twodt.masterid = t1.masterid**

1. Traveling with Rickey - List all of the teams for which Rickey Henderson did **not** play. Note that because teams come and go, limit your answer to only the teams that were in existence while Rickey Henderson was a player. List each such team once.

**with rickystats as (select master.masterid, master.namefirst, master.namelast, master.debut, master.finalgame**

**from master**

**where master.nameFirst = 'Rickey'**

**and master.nameLast = 'Henderson'),**

**liveRickyTeams as (select t2.name**

**from rickystats t1, teams t2**

**where t2.yearid >= extract (year from t1.debut)**

**and t2.yearid <= extract (year from t1.finalgame)**

**group by t2.name**

**order by t2.name),**

**histeams as (select t2.name**

**from appearances t1, rickystats rs, teams t2**

**where t1.masterid = rs.masterid**

**and t1.teamid = t2.teamid**

**group by t2.name**

**order by t2.name),**

**finaltable as (select \***

**from liverickyteams**

**except**

**select \***

**from histeams)**

**select \***

**from finaltable**

**order by finaltable.name asc**

1. Median team wins - For the 1970s, list the team name for teams in the National League ("NL") that had the median number of total wins in the decade (1970-1979 inclusive) (if there are even number of teams, round up to find the median).

**with teamwins as (select teams.name, sum(teams.w) as tw**

**from teams**

**where teams.lgid = 'NL'**

**and teams.yearid >= 1970**

**and teams.yearid < 1980**

**group by teams.name),**

**orderedteams as (select \***

**from teamwins**

**order by teamwins.tw),**

**rankedTeams as (select \*,**

**rank() over (**

**order by orderedteams.tw**

**) rank\_no**

**from orderedteams)**

**select rankedteams.name, rankedteams.rank\_no**

**from rankedteams**

**where rankedteams.rank\_no = (select count(\*)**

**from rankedteams**

**)/2**