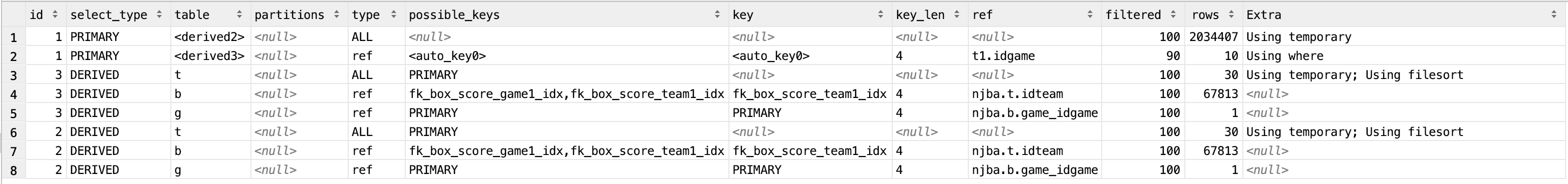
Identify reporting/analytics stories: Show SQL, query plan and output in a doc

3. As a *Fan*, I want to view standings (leaderboard) so that easily know each team’s ranking *# 3 Sub-tasks  
# 1. Need to create a totals view that records wins AND losses  
# e.g. Totals VIEW attributes -> seasonid, teamid, wins, loses, win%, conference, division, home, road  
# 2. Need to create a standings view that summarizes each team based ON totals view  
# 3. Need to rank teams in standings  
  
# Sub-task 1 - Create Totals View*

**EXPLAIN EXTENDED**(  
 **SELECT DISTINCT** t1.**idgame**,  
 t1.**season\_idseason**,  
 t1.**home\_team\_id**,  
 t1.**away\_team\_id**,  
 **CASE  
 WHEN** t1.team\_points > t2.team\_points  
 **THEN** t1.**idteam  
 WHEN** t1.team\_points < t2.team\_points  
 **THEN** t2.**idteam  
 END AS** win\_team\_id,  
 **CASE  
 WHEN** t1.team\_points < t2.team\_points  
 **THEN** t1.**idteam  
 WHEN** t1.team\_points > t2.team\_points  
 **THEN** t2.**idteam  
 END AS** loss\_team\_id  
  
 **FROM** (  
 **SELECT idgame**,  
 **team\_name**,  
 **idteam**,  
 **home\_team\_id**,  
 **away\_team\_id**,  
 **season\_idseason**,  
 *SUM*(**pts**) **AS** team\_points  
 **FROM** game g  
 **JOIN** box\_score b  
 **ON** g.**idgame** = b.**game\_idgame  
 JOIN** team t

**ON** b.**team\_idteam** = t.**idteam  
 GROUP BY** 1, 2  
 **ORDER BY** 1 **ASC** ) **as** t1  
 **INNER JOIN** (  
 **SELECT idgame**,  
 **team\_name**,  
 **idteam**,  
 **home\_team\_id**,  
 **away\_team\_id**,  
 **season\_idseason**,  
 *SUM*(**pts**) **AS** team\_points  
 **FROM** game g  
 **JOIN** box\_score b  
 **ON** g.**idgame** = b.**game\_idgame  
 JOIN** team t  
 **ON** b.**team\_idteam** = t.**idteam  
  
 GROUP BY** 1, 2  
 **ORDER BY** 1 **ASC** ) **as** t2  
 **ON** t1.**idgame** = t2.**idgame  
 WHERE** t1.**team\_name** <> t2.**team\_name  
 HAVING** win\_team\_id **IS NOT NULL  
 AND** loss\_team\_id **IS NOT NULL**);

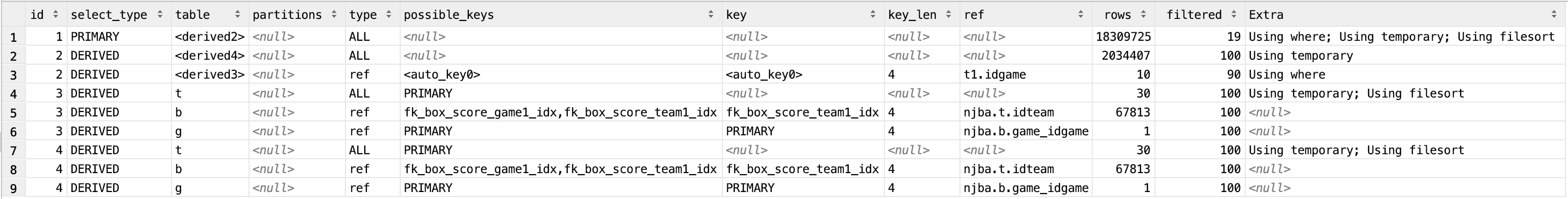
*query-plan1.png*



*# Sub-task 2 - Create standings View*

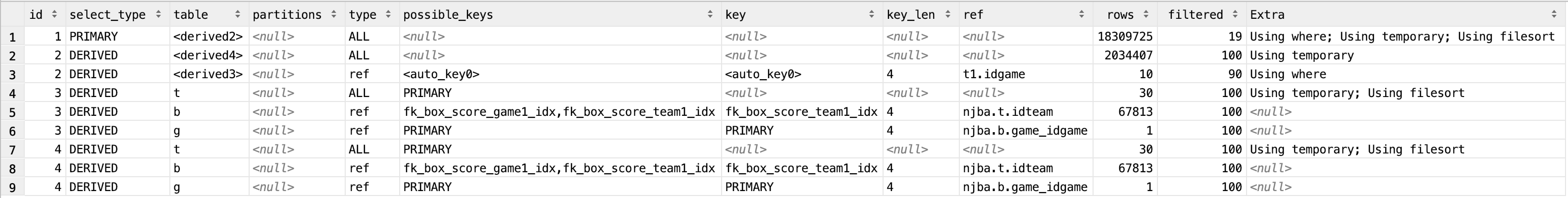
**EXPLAIN EXTENDED**(  
 **SELECT season\_idseason**,  
 **loss\_team\_id**,  
 *COUNT*(**loss\_team\_id**) **AS** loss  
 **FROM** totals  
 **WHERE** (**home\_team\_id** = **loss\_team\_id  
 OR away\_team\_id** = **loss\_team\_id**)  
 **GROUP BY** 1, 2  
 **ORDER BY** 1, 2  
);

*query-plan2.png*



**EXPLAIN EXTENDED**(  
 **SELECT season\_idseason**,  
 **win\_team\_id**,  
 *COUNT*(**win\_team\_id**) **AS** win  
 **FROM** totals  
 **WHERE** (**home\_team\_id** = **win\_team\_id  
 OR away\_team\_id** = **win\_team\_id**)  
 **GROUP BY** 1, 2  
 **ORDER BY** 1, 2  
);

*query-plan3.png*



**EXPLAIN EXTENDED**(  
 **SELECT season\_idseason**,  
 **idteam**,  
 *SUM*(game\_win) **AS** wins,  
 *SUM*(game\_loss) **AS** loses,  
 *ROUND*((*SUM*(game\_win)/*SUM*(game\_win + game\_loss)) \* 100, 1)  
 **AS** win\_pct,  
 *CONCAT*(*CAST*(*SUM*(conf\_win) **AS CHAR**(2)), **' - '**,  
 *CAST*(*SUM*(cONf\_loss) **AS CHAR**(2)) ) **AS** conf\_record,  
 *CONCAT*(*CAST*(*SUM*(div\_win) **AS CHAR**(2)), **' - '**,  
 *CAST*(*SUM*(div\_loss) **AS CHAR**(2)) ) **AS** div\_record,  
 *CONCAT*(*CAST*(*SUM*(home\_win) **AS CHAR**(2)), **' - '**,  
 *CAST*(*SUM*(home\_loss) **AS CHAR**(2)) ) **AS** home\_record,  
 *CONCAT*(*CAST*(*SUM*(away\_win) **AS CHAR**(2)), **' - '**,  
 *CAST*(*SUM*(away\_loss) **AS CHAR**(2)) ) **AS** away\_record  
 **FROM** (  
 **SELECT season\_idseason**,  
 **idteam**,  
 **conference**,  
 **division**,  
 s.**win\_team\_id**,  
 s.**loss\_team\_id**,  
 **CASE WHEN** s.**win\_team\_id** = t.**idteam**

**THEN** 1  
 **ELSE** 0

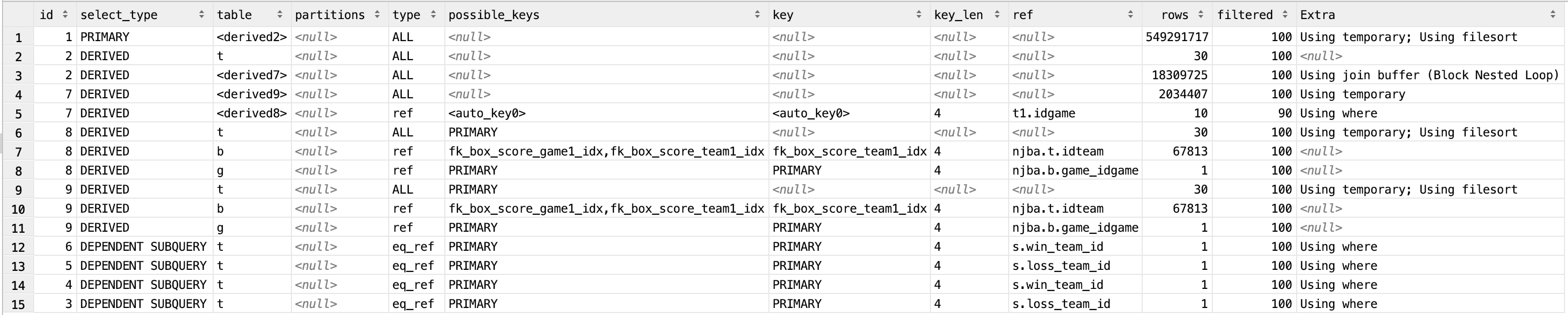
**END AS** game\_win,  
 **CASE WHEN** s.**loss\_team\_id** = t.**idteam**

**THEN** 1  
 **ELSE** 0

**END AS** game\_loss,  
 *-- Conference Record* **CASE WHEN** (s.**win\_team\_id** = t.**idteam**) **AND  
 conference** = (  
 **SELECT** t.**conference  
 FROM** team t  
 **WHERE** s.**loss\_team\_id** = t.**idteam** )  
 **THEN** 1  
 **ELSE** 0

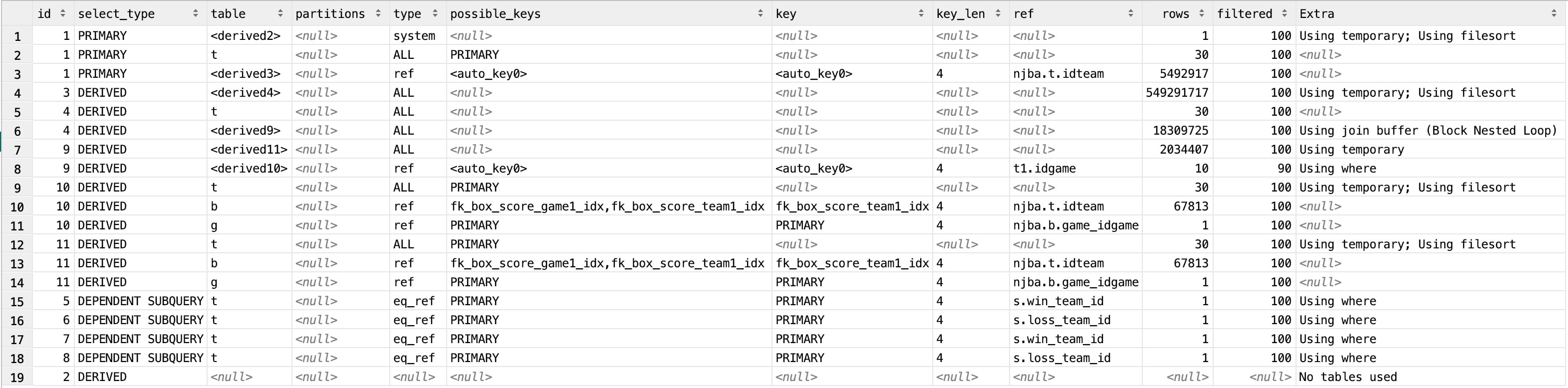
**END AS** conf\_win,  
 **CASE WHEN** (s.**loss\_team\_id** = t.**idteam**) **AND  
 conference** = (  
 **SELECT** t.**conference  
 FROM** team t  
 **WHERE** s.**win\_team\_id** = t.**idteam** )  
 **THEN** 1  
 **ELSE** 0 **END AS** conf\_loss,  
 *-- Division Record* **CASE WHEN** (s.**win\_team\_id** = t.**idteam**) **AND  
 division** = (  
 **SELECT** t.**division  
 FROM** team t  
 **WHERE** s.**loss\_team\_id** = t.**idteam** )  
 **THEN** 1  
 **ELSE** 0 **END AS** div\_win,  
 **CASE WHEN** (s.**loss\_team\_id** = t.**idteam**) **AND  
 division** = (  
 **SELECT** t.**division  
 FROM** team t  
 **WHERE** s.**win\_team\_id** = t.**idteam** )  
 **THEN** 1  
 **ELSE** 0 **END AS** div\_loss,  
 *-- Home Record* **CASE WHEN** (s.**win\_team\_id** = t.**idteam**) **AND home\_team\_id** = **win\_team\_id  
 THEN** 1  
 **ELSE** 0 **END AS** home\_win,  
 **CASE WHEN** (s.**loss\_team\_id** = t.**idteam**) **AND home\_team\_id** = **loss\_team\_id  
 THEN** 1  
 **ELSE** 0 **END AS** home\_loss,  
 *-- Away Record* **CASE WHEN** (s.**win\_team\_id** = t.**idteam**) **AND away\_team\_id** = **win\_team\_id  
 THEN** 1  
 **ELSE** 0 **END AS** away\_win,  
 **CASE WHEN** (s.**loss\_team\_id** = t.**idteam**) **AND away\_team\_id** = **loss\_team\_id  
 THEN** 1  
 **ELSE** 0 **END AS** away\_loss  
 **FROM** totals s  
 **JOIN** team t  
 ) **AS** standings  
 **GROUP BY idteam**);

*query-plan4.png*



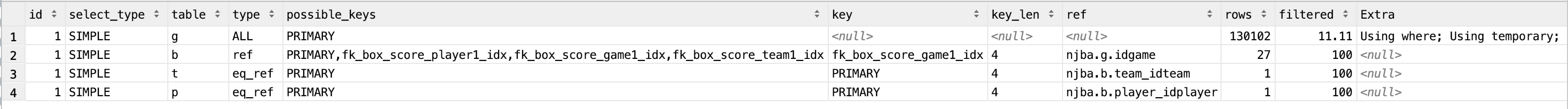
*# Sub-task 3 - Rank the standings***EXPLAIN EXTENDED**(  
 **SELECT** s.**season\_idseason**,  
 t.**team\_name**,  
 s.**win\_pct**,  
 *@curRank* := @curRank + 1 **AS** ranks  
 **FROM** standings s  
 **JOIN** team t **ON** s.**idteam** = t.**idteam**,  
 (**SELECT** @curRank := 0) r  
*-- WHERE s.idseason = 2 # Uncomment to specify which season to show ranking for* **ORDER BY win\_pct DESC**);

*query-plan5.png*



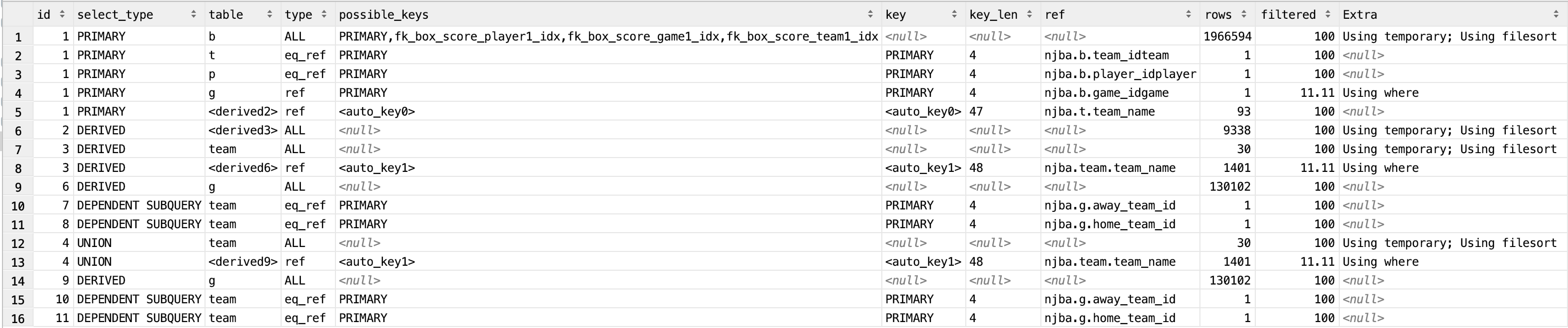
8. As a *Fan*, I want to view player stats so that I can see a player‘s averages over various time periods (e.g. month-to-month stats, season averages, etc.)

*# 2 Sub-tasks  
# 1. Need to create a totals view that records number of games played by a team in a given period  
# e.g. games\_played VIEW attributes -> date, teamid, played\_game  
# 2. Need to create a standings view that summarizes each team based ON totals view  
  
-- Traditional Stats  
#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#  
# Stat | Name | Formula #  
#\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#  
# gp | Games Played | #  
# min | Minutes Played | #  
# pts | Points | #  
# fgm | Field Goals Made | #  
# fga | Field Goals Attempted | #  
# fg\_pct | Field Goal Percentage | (FGM / FGA) \* 100 #  
# fg3 | 3 Point Field Goals Made | #  
# fg3a | 3 Point Field Goals Attempted | #  
# fg3\_pct | 3 Point Field Goals Percentage | (FG3 / FG3A) \* 100 #  
# ft | Free Throws Made | #  
# fta | Free Throws Attempted | #  
# ft\_pct | Free Throw Percentage | (FT / FTA) \* 100 #  
# orb | Offensive Rebounds | #  
# drb | Defensive Rebounds | #  
# trb | Total Rebounds | #  
# ast | Assists | #  
# fouls | Fouls | #  
# blk | Blocks | #  
# tov | Turnovers | #  
#\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#  
  
  
-- Player Averages***EXPLAIN EXTENDED**(  
 **SELECT** t.**team\_name**,  
 p.**full\_name**,  
 *AVG*(**mins**) **AS** mins,  
 *AVG*(**fgm**) **AS** fgm,  
 *AVG*(**fga**) **AS** fga,  
 **CASE  
 WHEN  
 fga** <> 0  
 **THEN** *ROUND*((*AVG*(**fgm**) / *AVG*(**fga**)) \* 100, 1)  
 **ELSE** 0  
 **END AS** fg\_pct,  
 *AVG*(**fg3**) **AS** fg3,  
 *AVG*(**fg3a**) **AS** fg3a,  
 **CASE  
 WHEN  
 fg3a** <> 0  
 **THEN** *ROUND*((*AVG*(**fg3**) / *AVG*(**fg3a**)) \* 100, 1)  
 **ELSE** 0  
 **END AS** fg3\_pct,  
 *AVG*(**ft**) **AS** ft,  
 *AVG*(**fta**) **AS** fta,  
 **CASE  
 WHEN  
 fta** <> 0  
 **THEN** *ROUND*((*AVG*(**ft**) / *AVG*(**fta**)) \* 100, 1)  
 **ELSE** 0  
 **END AS** ft\_pct,  
 *AVG*(**orb**) **AS** orb,  
 *AVG*(**drb**) **AS** drb,  
 *AVG*(**trb**) **AS** trb,  
 *AVG*(**ASt**) **AS** assists,  
 *AVG*(**blk**) **AS** blocks,  
 *AVG*(**tov**) **AS** turnovers,  
 *AVG*(**fouls**) **AS** fouls,  
 *AVG*(**pts**) **AS** points  
 **FROM** game g  
 **JOIN** box\_score b  
 **ON** g.**idgame** = b.**game\_idgame  
 JOIN** player p  
 **ON** b.**player\_idplayer** = p.**idplayer  
 JOIN** team t  
 **ON** b.**team\_idteam** = t.**idteam****WHERE** g.**date BETWEEN** *start\_date*() **AND** *end\_date*()  
 **GROUP BY** 1, 2  
 **ORDER BY** 1, 2 **ASC**);  
  
*query-plan6.png*



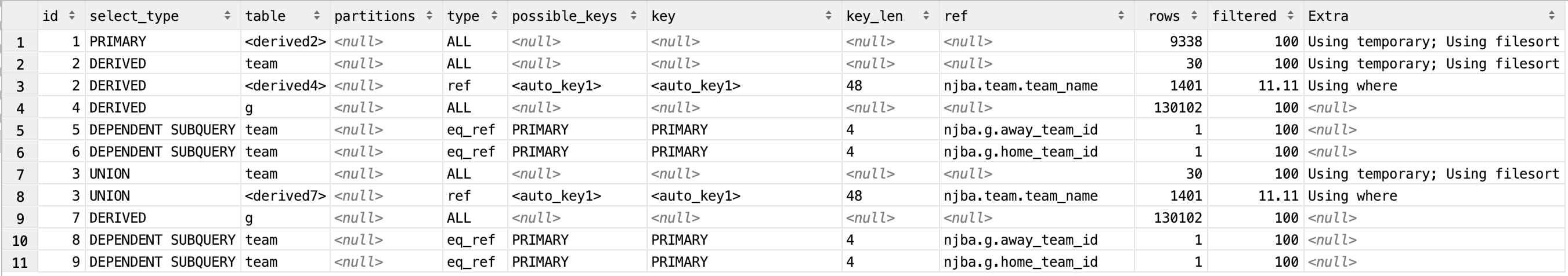
*-- Player Sum (Raw Scores)***EXPLAIN EXTENDED**(  
 **SELECT** t.**team\_name**,  
 p.**full\_name**,  
 *SUM*(**mins**) **AS** mins,  
 *SUM*(**fgm**) **AS** fgm,  
 *SUM*(**fga**) **AS** fga,  
 **CASE  
 WHEN  
 fga** <> 0  
 **THEN** *ROUND*((*SUM*(**fgm**) / *SUM*(**fga**)) \* 100, 1)  
 **ELSE** 0  
 **END AS** fg\_pct,  
 *SUM*(**fg3**) **AS** fg3,  
 *SUM*(**fg3a**) **AS** fg3a,  
 **CASE  
 WHEN  
 fg3a** <> 0  
 **THEN** *ROUND*((*SUM*(**fg3**) / *SUM*(**fg3a**)) \* 100, 1)  
 **ELSE** 0  
 **END AS** fg3\_pct,  
 *SUM*(**ft**) **AS** ft,  
 *SUM*(**fta**) **AS** fta,  
 **CASE  
 WHEN  
 fta** <> 0  
 **THEN** *ROUND*((*SUM*(**ft**) / *SUM*(**fta**)) \* 100, 1)  
 **ELSE** 0  
 **END AS** ft\_pct,  
 *SUM*(**orb**) **AS** orb,  
 *SUM*(**drb**) **AS** drb,  
 *SUM*(**trb**) **AS** trb,  
 *SUM*(**ASt**) **AS** assists,  
 *SUM*(**blk**) **AS** blocks,  
 *SUM*(**tov**) **AS** turnovers,  
 *SUM*(**fouls**) **AS** fouls,  
 *SUM*(**pts**) **AS** points  
 **FROM** game g  
 **JOIN** box\_score b  
 **ON** g.**idgame** = b.**game\_idgame  
 JOIN** player p  
 **ON** b.**player\_idplayer** = p.**idplayer  
 JOIN** team t  
 **ON** b.**team\_idteam** = t.**idteam  
 JOIN** games\_played gp  
 **ON** t.**team\_name** = gp.**team\_name  
 WHERE** g.**date BETWEEN** *start\_date*() **AND** *end\_date*()  
 **GROUP BY** 1, 2  
 **ORDER BY** 1, 2 **ASC**);

*query-plan7.png*



*-- Games Played Totals***EXPLAIN EXTENDED**(  
 **SELECT team\_name**, *sum*(games\_played) games\_played  
 **FROM** (  
 **SELECT** *count*(*\**) **AS** games\_played, **team\_name  
 FROM schedule** s  
 **JOIN** team  
 **ON team\_name** = **home  
 WHERE date BETWEEN** *start\_date*() **AND** *end\_date*()  
 **GROUP BY team\_name  
  
 UNION ALL  
  
 SELECT** *count*(*\**) **AS** games\_played, **team\_name  
 FROM schedule** s  
 **JOIN** team **ON team\_name** = **away  
 WHERE date BETWEEN** *start\_date*() **AND** *end\_date*()  
 **GROUP BY team\_name** ) **AS** game\_total  
 **GROUP BY team\_name**);

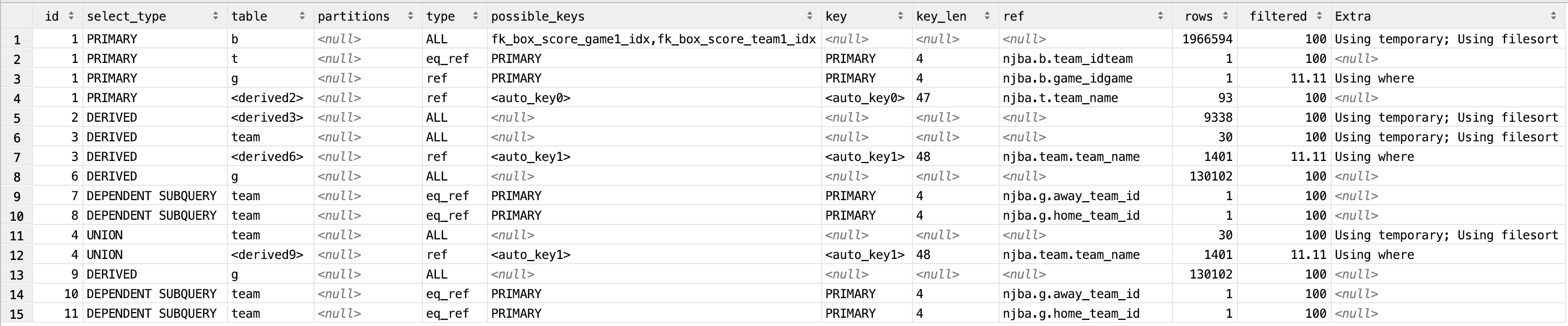
*query-plan8.png*



9. As a *Fan*, I want to view team stats so that I can see a team’s averages over various time periods (e.g. month-to-month stats, season averages, etc.) *-- Traditional Stats  
#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#  
# Stat | Name | Formula #  
#\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#  
# gp | Games Played | #  
# min | Minutes Played | #  
# pts | Points | #  
# fgm | Field Goals Made | #  
# fga | Field Goals Attempted | #  
# fg\_pct | Field Goal Percentage | (FGM / FGA) \* 100 #  
# fg3 | 3 Point Field Goals Made | #  
# fg3a | 3 Point Field Goals Attempted | #  
# fg3\_pct | 3 Point Field Goals Percentage | (FG3 / FG3A) \* 100 #  
# ft | Free Throws Made | #  
# fta | Free Throws Attempted | #  
# ft\_pct | Free Throw Percentage | (FT / FTA) \* 100 #  
# orb | Offensive Rebounds | #  
# drb | Defensive Rebounds | #  
# trb | Total Rebounds | #  
# ast | Assists | #  
# fouls | Fouls | #  
# blk | Blocks | #  
# tov | Turnovers | #  
#\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#*

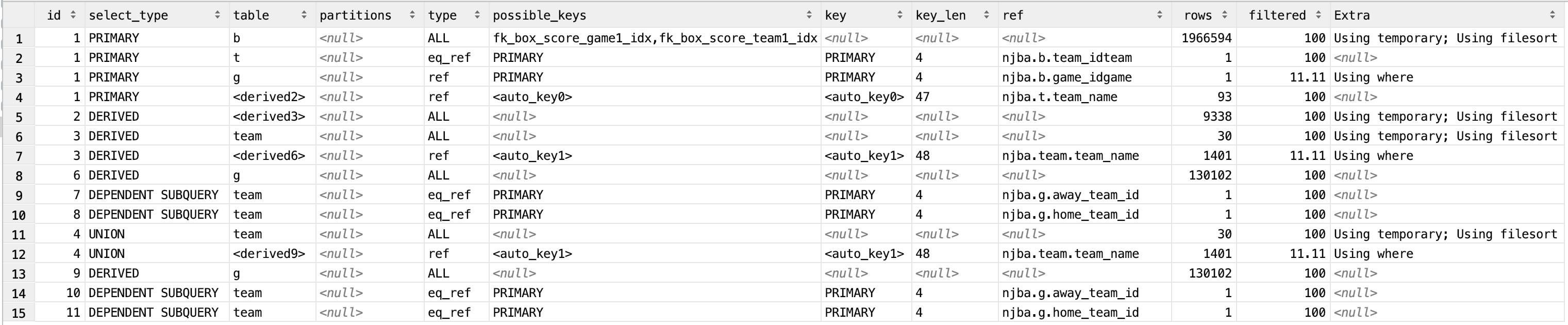
*-- Team Averages***EXPLAIN EXTENDED**(  
 **SELECT** t.**team\_name**,  
 *ROUND*(*SUM*(**mins** / gp.**games\_played**), 0) **AS** mins,  
 *ROUND*(*SUM*(**fgm**) / gp.**games\_played**, 0) **AS** team\_fgm,  
 *ROUND*(*SUM*(**fga**) / gp.**games\_played**, 0) **AS** team\_fga,  
 *ROUND*((*ROUND*(*SUM*(**fgm**) / gp.**games\_played**, 0) /  
 *ROUND*(*SUM*(**fga**) / gp.**games\_played**, 0)) \* 100, 1) **AS** team\_fg\_pct,  
 *ROUND*(*SUM*(**fg3**) / gp.**games\_played**, 0) **AS** team\_fg3,  
 *ROUND*(*SUM*(**fg3a**) / gp.**games\_played**, 0) **AS** team\_fg3a,  
 *ROUND*((*ROUND*(*SUM*(**fg3**) / gp.**games\_played**, 0) /  
 *ROUND*(*SUM*(**fg3a**) / gp.**games\_played**, 0)) \* 100, 1) **AS** team\_fg3\_pct,  
 *ROUND*(*SUM*(**ft**) / gp.**games\_played**, 0) **AS** team\_ft,  
 *ROUND*(*SUM*(**fta**) / gp.**games\_played**, 0) **AS** team\_fta,  
 *ROUND*((*ROUND*(*SUM*(**ft**) / gp.**games\_played**, 0) /  
 *ROUND*(*SUM*(**fta**) / gp.**games\_played**, 0)) \* 100, 1) **AS** team\_ft\_pct,  
 *ROUND*(*SUM*(**orb**) / gp.**games\_played**, 0) **AS** team\_orb,  
 *ROUND*(*SUM*(**drb**) / gp.**games\_played**, 0) **AS** team\_drb,  
 *ROUND*(*SUM*(**trb**) / gp.**games\_played**, 0) **AS** team\_trb,  
 *ROUND*(*SUM*(**ast**) / gp.**games\_played**, 0) **AS** team\_assists,  
 *ROUND*(*SUM*(**blk**) / gp.**games\_played**, 0) **AS** team\_blocks,  
 *ROUND*(*SUM*(**tov**) / gp.**games\_played**, 0) **AS** team\_turnovers,  
 *ROUND*(*SUM*(**fouls**) / gp.**games\_played**, 0) **AS** team\_fouls,  
 *ROUND*(*SUM*(**pts**) / gp.**games\_played**, 0) **AS** team\_points  
 **FROM** game g  
 **JOIN** box\_score b  
 **ON idgame** = **game\_idgame  
 JOIN** team t  
 **ON team\_idteam** = **idteam  
 JOIN** games\_played gp  
 **ON** t.**team\_name** = gp.**team\_name  
 WHERE** g.**date BETWEEN** *start\_date*() **AND** *end\_date*()  
 **GROUP BY** 1  
 **ORDER BY** 1 **ASC**);

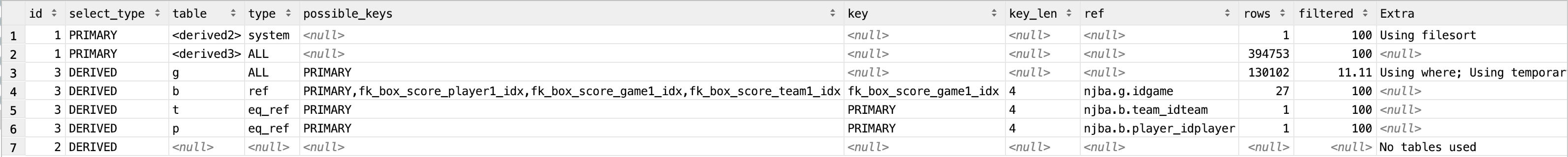
*query-plan9.png*

**

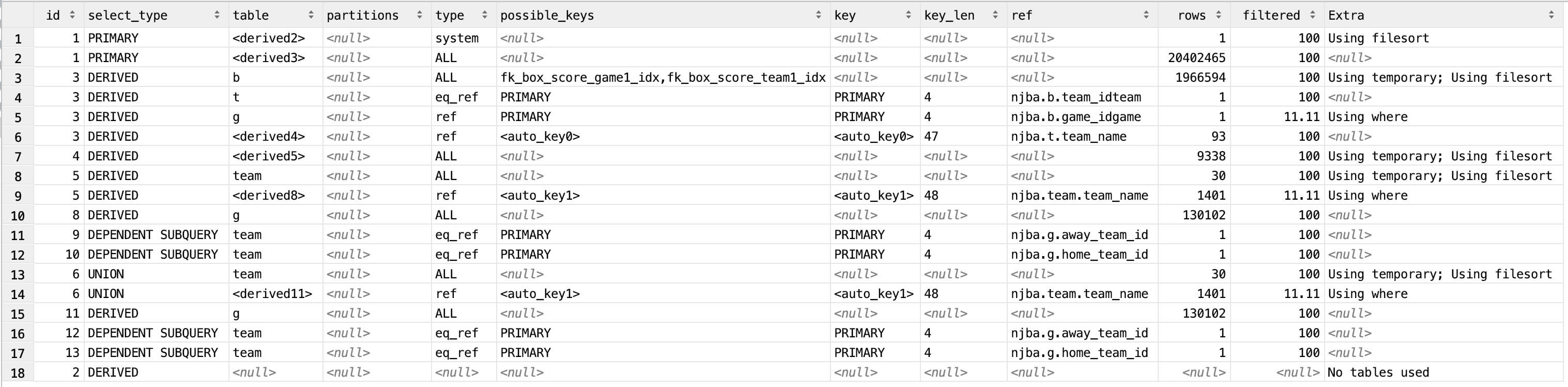
*-- Team Totals (Raw Scores)***EXPLAIN EXTENDED**(  
 **SELECT** t.**team\_name**,  
 *ROUND*(*SUM*(**mins**), 0) **AS** mins,  
 *SUM*(**fgm**) **AS** team\_fgm,  
 *SUM*(**fga**) **AS** team\_fga,  
 *ROUND*((*SUM*(**fgm**) / *SUM*(**fga**)) \* 100, 1) **AS** team\_fg\_pct,  
 *SUM*(**fg3**) **AS** team\_fg3,  
 *SUM*(**fg3a**) **AS** team\_fg3a,  
 *ROUND*((*SUM*(**fg3**) / *SUM*(**fg3a**)) \* 100, 1) **AS** team\_fg3\_pct,  
 *SUM*(**ft**) **AS** team\_ft,  
 *SUM*(**fta**) **AS** team\_fta,  
 *ROUND*((*SUM*(**ft**) / *SUM*(**fta**)) \* 100, 1) **AS** team\_ft\_pct,  
 *SUM*(**orb**) **AS** team\_orb,  
 *SUM*(**drb**) **AS** team\_drb,  
 *SUM*(**trb**) **AS** team\_trb,  
 *SUM*(**ASt**) **AS** team\_assists,  
 *SUM*(**blk**) **AS** team\_blocks,  
 *SUM*(**tov**) **AS** team\_turnovers,  
 *SUM*(**fouls**) **AS** team\_fouls,  
 *SUM*(**pts**) **AS** team\_points  
 **FROM** game g  
 **JOIN** box\_score b  
 **ON idgame** = **game\_idgame  
 JOIN** team t  
 **ON team\_idteam** = **idteam  
 JOIN** games\_played gp  
 **ON** t.**team\_name** = gp.**team\_name  
 WHERE** g.**date BETWEEN** *start\_date*() **AND** *end\_date*()  
 **GROUP BY** 1  
 **ORDER BY** 1 **ASC**);

*query-plan10.png*

  
  
18. As a *Fan*, I want to view a ‘Top Player Stats’ leaderboard so that I can see which player is the top ranked player in each statistical category**EXPLAIN EXTENDED**(  
 **SELECT team\_name**,  
 **full\_name**,  
 *ROUND*(**fgm**, 0) **AS** fgm,  
 *ROUND*(**fga**, 0) **AS** fga,  
 **fg\_pct**,  
 *ROUND*(**fg3**, 0) **AS** fg3,  
 *ROUND*(**fg3a**, 0) **AS** fg3a,  
 **fg3\_pct**,  
 *ROUND*(**ft**, 0) **AS** ft,  
 *ROUND*(**fta**, 0) **AS** fta,  
 **ft\_pct**,  
 *ROUND*(**orb**, 0) **AS** orb,  
 *ROUND*(**drb**, 0) **AS** drb,  
 *ROUND*(**trb**, 0) **AS** trb,  
 *ROUND*(**assists**, 0) **AS** ast,  
 *ROUND*(**blocks**, 0) **AS** blk,  
 *ROUND*(**turnovers**, 0) **AS** tov,  
 *ROUND*(**fouls**, 0) **AS** fouls,  
 *ROUND*(**points**, 0) **AS** pts,  
 @curRank := @curRank + 1 **AS** ranks  
 **FROM** player\_avg p,  
 (**SELECT** @curRank := 0) r  
 *-- Stat Filter* **ORDER BY** pts **DESC**);

*query-plan11.png*  


19. As a *Fan*, I want to view a ‘Top Team Stats’ leaderboard so that I can see which team is the top ranked team in each statistical category  
**EXPLAIN EXTENDED**(  
 **SELECT team\_name**,  
 *ROUND*(**team\_fgm**, 0) **AS** team\_fgm,  
 *ROUND*(**team\_fga**, 0) **AS** team\_fga,  
 **team\_fg\_pct**,  
 *ROUND*(**team\_fg3**, 0) **AS** team\_fg3,  
 *ROUND*(**team\_fg3a**, 0) **AS** team\_fg3a,  
 **team\_fg3\_pct**,  
 *ROUND*(**team\_ft**, 0) **AS** team\_ft,  
 *ROUND*(**team\_fta**, 0) **AS** team\_fta,  
 **team\_ft\_pct**,  
 *ROUND*(**team\_orb**, 0) **AS** team\_orb,  
 *ROUND*(**team\_drb**, 0) **AS** team\_drb,  
 *ROUND*(**team\_trb**, 0) **AS** team\_trb,  
 *ROUND*(**team\_assists**, 0) **AS** team\_ast,  
 *ROUND*(**team\_blocks**, 0) **AS** team\_blk,  
 *ROUND*(**team\_turnovers**, 0) **AS** team\_tov,  
 *ROUND*(**team\_fouls**, 0) **AS** team\_fouls,  
 *ROUND*(**team\_points**, 0) **AS** team\_pts,  
 @curRank := @curRank + 1 **AS** ranks  
 **FROM** team\_avg t,  
 (**SELECT** @curRank := 0) r  
 *-- Stat Filter* **ORDER BY** team\_pts **DESC**);  
  
*query-plan12.png*

**

*-- Note: There are no user stories for displaying the Store data. Store is out of the scope of MVP.  
  
-- =====================================================  
-- Additional Reporting/Analytics  
-- =====================================================  
  
-- Advanced Stats  
#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#  
# Stat | Name | Formula #  
#\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#  
# efg\_pct | Effective Field Goal Percentage | (FG + 0.5 \* 3P) / FGA #  
# tsa | True Shooting Attempts | FGA + 0.475 \* FTA #  
# ts\_pct | True Shooting Percentage | PTS / (2 \* TSA) -> PTS / (2 \* (FGA + 0.475 \* FTA))#  
# ftr | Free Throw Rate | FT / FGA #  
# tov\_pct | Turnover Percentage | 100 \* TOV / (FGA + 0.44 \* FTA + TOV) #  
# gmsc | Game Score | PTS + 0.4 \* FG - 0.7 \* FGA - 0.4\*(FTA - FT) + #  
# | | 0.7 \* ORB + 0.3 \* DRB + STL + 0.7 \* AST + 0.7 \* #  
# | | BLK - 0.4 \* Fouls - TOV #  
#\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#***EXPLAIN EXTENDED**(  
 **SELECT** t.**team\_name**,  
 p.**full\_name**,  
 *ROUND*((*SUM*(**fgm** + **fg3**) + 0.5 \* **fg3**) / *SUM*(**fga** + **fg3a**) \* 100, 1) **AS** efg\_pct,  
 *ROUND*(*SUM*(**fga** + **fg3a**) + 0.475 \* **fta**, 1) **AS** tsa,  
 *ROUND*(**points** / (2 \* (*SUM*(**fga** + **fg3a**) + 0.475 \* **fta**)) \* 100, 1) **AS** ts\_pct,  
 *ROUND*((**ft** / *SUM*(**fga** + **fg3a**) \* 100), 1) **AS** ftr,  
 *ROUND*(100 \* **turnovers** / (*SUM*(**fga** + **fg3a**) + 0.44 \* **fta** + **turnovers**), 1) **AS** tov\_pct,  
 *ROUND*((**points** + 0.4 \* *SUM*(**fga** + **fg3a**) - 0.7 \* **fga** -  
 0.4 \* (**fta** - **ft**) + 0.7 \* **orb** + 0.3 \* **drb** + 0.7 \*  
 **assists** + 0.7 \* **blocks** - 0.4 \* **Fouls** - **turnovers**), 1) **AS** gmsc  
*# (100 \* ((SUM(fga + fg3a) + 0.44 \* fta + turnovers) \* (TmMP / 5)) / (min \* (TmFGA + 0.44 \* Tm FTA + Tm TOV))) AS usage* **FROM** player\_raw pr  
 **JOIN** player p  
 **ON** pr.**full\_name** = p.**full\_name  
 JOIN** team t  
 **ON** pr.**team\_name** = t.**team\_name  
 JOIN** games\_played gp  
 **ON** t.**team\_name** = gp.**team\_name  
 GROUP BY** 1, 2  
 **ORDER BY** 1, 2 **ASC**);