

Project 1 Relational algebra

1)

Π Count(official_ID), first_name, Last_name ((Officials))
- can't use group by

- No Group or order by in relational Algebra, can't count

2) Π Display-first_name, years_played ((Player-Attributes))
- can't use count

3) Π Team.full_name, WL_Home = "W" ((Game \bowtie Game, team_id_Home = team_id Team))
- can't count

4) $(\Pi$ Team_name_Home, wins $(\Pi$ team_name_Home, WL_Home $(\sigma$ WL_Home = "W" and Home_team_id = "1610612738" (game))) \bowtie $(\Pi$ WL_Home = "L" and Away_team_id = "1610612738" (game)))

- can't use Group by or count

5) Π Display-first_last, PTS, AST, Reb $(\sigma$ Draft-Number = "1" (Player-Attributes \bowtie Player-Attributes_ID on draft_id (Player Draft)))

6) Π Team_name_Home, WL_Home = "W" $(\sigma$ WL_Home = "W" and Game_Date = "2005" (game))

- can't use group by, count, order, limit or like

7) Π slug-season, nameTeam, namePlayer, Value $(\sigma$ typeContract = "Guaranteed" (Player-Salary))

- can't use max, Group by, order by, Desc

8) Π Team-Salary.nameTeam, Sum(nums), value, namePlayer (Team-Salary \bowtie Team-Salary.nameTeam on Player-Salary.nameTeam Player-Salary)

- can't use sum, max, Group, order, desc

9) Π Season, count(Season) (game)

- can't use count, group by, order by, desc

10) Π NameTeam, numberPick overall < 10 $(\sigma$ numberPick overall < 10 (draft))

- can't use <, Group, Desc, count