Project HY-360 | 2018-2019

Team:

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Πρώτο Μέρος

1) Query_one:

SELECT venue_name, venue_capacity

FROM 'bigquery-public-data.ncaa_basketball.mbb_teams'

WHERE venue_city = 'Stanford'

INFO: Query complete (0.369 sec elapsed, 13.5 KB processed)

2) Query_two:

SELECT COUNT(game_id)

FROM `bigquery-public-data.ncaa_basketball.mbb_games_sr`

WHERE season = 2013 AND venue_city = 'Stanford'

INFO: Query complete (1.497 sec elapsed, 1.62 MB processed)

3) Query_three:

SELECT market, color

FROM `bigquery-public-data.ncaa_basketball.team_colors`

WHERE color LIKE '_ff%'

ORDER BY market ASC

INFO: Query complete (0.277 sec elapsed, 7.58 KB processed)

4) Query_four:

SELECT COUNT(game_id) AS Nr_of_games, ROUND(AVG(h_points), 2) AS h_avg_points, ROUND(AVG(a_points), 2) AS a_avg_points

FROM `bigquery-public-data.ncaa_basketball.mbb_games_sr`

WHERE h_points > a_points AND tournament != 'null' AND (season >= 2013 OR season <=2017) AND h_name IN

(SELECT name

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FROM 'bigquery-public-data.ncaa_basketball.mbb_teams'
        WHERE venue_city = 'Stanford')
        INFO: Query complete (0.862 sec elapsed, 2.01 MB processed)
    5) Query_five:
        SELECT COUNT(DISTINCT player_id)
        FROM `bigquery-public-data.ncaa_basketball.mbb_players_games_sr`
        INNER JOIN 'bigquery-public-data.ncaa_basketball.mbb_teams'
        ON ((birthplace_city = venue_city AND birthplace_state = venue_state)
        AND team_id = id)
        INFO: Query complete (1.121 sec elapsed, 76.64 MB processed)
    6) Query_six:
SELECT win_name, lose_name, win_pts, lose_pts, win_pts-lose_pts AS difference
FROM 'bigquery-public-data.ncaa_basketball.mbb_historical_tournament_games'
WHERE win_pts-lose_pts IN
        (SELECT MAX(win_pts-lose_pts)
        FROM `bigquery-public-data.ncaa_basketball.mbb_historical_tournament_games`)
        INFO: Query complete (0.885 sec elapsed, 75.31 KB processed)
    7) Query_seven:
        SELECT ROUND(COUNT(win_name) * 100/(SELECT COUNT(win_name) FROM
        'bigquery-public-data.ncaa_basketball.mbb_historical_tournament_games'), 2) AS Percentage_of_turnovers
        FROM 'bigquery-public-data.ncaa_basketball.mbb_historical_tournament_games'
        WHERE win_seed > lose_seed
        INFO: Query complete (0.734 sec elapsed, 37.78 KB processed)
    8) Query_eight:
SELECT p1.team1_Name AS team1_name, p1.team2_Name AS team2_name, p1.team2_venue AS state
FROM
(SELECT t1.id AS team1_Id, t1.name AS team1_Name, t1.venue_state AS team1_Venue, t2.id as team2_Id, t2.venue_state
        AS team2_Venue, t2.name AS team2_Name
```

FROM `bigquery-public-data.ncaa_basketball.mbb_teams` AS t1

INNER JOIN 'bigquery-public-data.ncaa_basketball.mbb_teams' AS t2

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ON t1.venue_state = t2.venue_state AND t1.id < t2.id) AS p1
INNER JOIN
(SELECT t1.id AS team1_Id, t2.id as team2_Id, t1.color AS team1_Color, t2.color AS team2_Color
FROM `bigquery-public-data.ncaa_basketball.team_colors` AS t1
INNER JOIN `bigquery-public-data.ncaa_basketball.team_colors` AS t2
ON t1.color = t2.color AND t1.id < t2.id) AS p2
ON (p1.team1_ld = p2.team1_ld AND p1.team2_ld = p2.team2_ld) OR (p2.team2_ld = p1.team1_ld AND p2.team1_ld =
        p1.team2_Id)
        ORDER BY p1.team1_Name ASC
        INFO: Query complete (1.186 sec elapsed, 33.95 KB processed)
    9) Query_nine:
SELECT market, NR_of_players_scored_15pts_1st_period
FROM
(SELECT team_id, COUNT(player_id) AS NR_of_players_scored_15pts_1st_period
FROM
  (SELECT DISTINCT player_id, team_id
  FROM
  (SELECT player_id, game_id, team_id, Total_points_scored_1st_period
   FROM
    (SELECT player_id, game_id, team_id, SUM(points_scored) AS Total_points_scored_1st_period
    FROM
     (SELECT player_id, game_id, team_id, points_scored
     FROM 'bigquery-public-data.ncaa_basketball.mbb_pbp_sr'
     WHERE period = 1 AND points_scored > 0)
    GROUP BY player_id, game_id, team_id)
   WHERE Total_points_scored_1st_period > 14))
GROUP BY team_id
ORDER BY NR_of_players_scored_15pts_1st_period DESC)
INNER JOIN 'bigquery-public-data.ncaa_basketball.mbb_teams'
ON team_id = id
```

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INFO: Query complete (1.621 sec elapsed, 466.7 MB processed)
    10) Query_ten:
SELECT birthplace_city, birthplace_state, birthplace_country, SUM(total_points_scored_by_eachplayer) AS
        total_points_scored_by_location
FROM
(SELECT player_id, birthplace_city, birthplace_state, birthplace_country, SUM(points) AS
        total_points_scored_by_eachplayer
FROM `bigquery-public-data.ncaa_basketball.mbb_players_games_sr`
WHERE team_market = 'Stanford'
GROUP BY player_id, birthplace_city, birthplace_state, birthplace_country
ORDER BY total_points_scored_by_eachplayer DESC)
        GROUP BY birthplace_city, birthplace_state, birthplace_country
        ORDER BY total_points_scored_by_location DESC LIMIT 3
        INFO: Query complete (1.746 sec elapsed, 65.06 MB processed)
    11) Query_eleven:
SELECT market, COUNT(market) AS Nr_seasons_best_team
FROM
(SELECT t1.season, t2.market, t1.wins
FROM
 (SELECT season, MAX(wins) AS wins
 FROM `bigquery-public-data.ncaa_basketball.mbb_historical_teams_seasons`
 WHERE season >=1900 AND season <= 2000 AND market <> 'null'
 GROUP BY season) AS t1
 INNER JOIN 'bigquery-public-data.ncaa_basketball.mbb_historical_teams_seasons' AS t2
ON
t1.season = t2.season AND t1.wins = t2.wins AND t2.market <> 'null')
        GROUP BY market
        ORDER BY Nr_seasons_best_team DESC, market ASC LIMIT 7
        INFO: Query complete (1.480 sec elapsed, 1.98 MB processed)
```

ORDER BY NR_of_players_scored_15pts_1st_period DESC, market ASC LIMIT 7