

Assignment 4

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I use ncaa_basketball in Google BigQuery.

1. How many teams in NCAA

Query editor

```
1 Select
2   count(name)
3 from
4   `bigquery-public-data`.ncaa_basketball.mbb_teams
```

Run Save query Save view Schedule query More

Query results [SAVE RESULTS](#) [EXPLORE WITH DATA STUDIO](#)

Query complete (0.9 sec elapsed, 3.4 KB processed)

Job information **Results** JSON Execution details

Row	f0_
1	351

2. What is the average score of winners in every game from 1984?

Query editor

```
1 Select
2   avg(win_pts)
3 from
4   `bigquery-public-data`.ncaa_basketball.mbb_historical_tournament_games
```

Run Save query Save view Schedule query More


Query results [SAVE RESULTS](#) [EXPLORE WITH DATA STUDIO](#)

Query complete (0.3 sec elapsed, 16.5 KB processed)





Job information **Results** JSON Execution details



Row	f0_
1	76.97590930562123

3. How many score the winner win loser in the games after 2002?

 2 Edited

```
1 Select
2   win_name, lose_name, (win_pts - lose_pts) AS diffScore, season
3 from
4   `bigquery-public-data`.ncaa_basketball.mbb_historical_tournament_games
5 where
6   season >=2002
```

 Run  Save query  Save view  Schedule query


Query results  SAVE RESULTS  EXPLORE WITH DATA

Query complete (0.5 sec elapsed, 91.9 KB processed)






Job information Results JSON Execution details



Row	win_name	lose_name	diffScore	season
1	Eagles	Red Raiders	9	2007
2	Yellow Jackets	Colonials	12	2005
3	Colonials	Seahawks	3	2006
4	Terrapins	Huskies	8	2002
5	Terrapins	Wildcats	10	2002
6	Terrapins	Hoosiers	12	2002
7	Terrapins	Badgers	30	2002
8	Terrapins	Saints	15	2002
9	Terrapins	Jayhawks	9	2002
10	Fighting Irish	Patriots	18	2008
11	Fighting Irish	Badgers	5	2016

4. which teams are the top-5 win-teams in the history?

 4

```
1 SELECT
2     win_name,
3     COUNT(*) AS winTime
4 FROM
5     `bigquery-public-data`.ncaa_basketball.mbb_historical_tournament_games
6 Group By
7     win_name
8 Order By
9     winTime desc
10 LIMIT 5
11
12 ;
```

 Run  Save query  Save view  Schedule query  More

Query results  SAVE RESULTS  EXPLORE WITH DATA STUDIO

Query complete (3.9 sec elapsed, 21.2 KB processed)

Job information Results JSON Execution details

Row	win_name	winTime
1	Wildcats	183
2	Blue Devils	91
3	Tar Heels	88
4	Tigers	81
5	Jayhawks	80

5. Which color is the most welcome for all the team?

4 Edited

```
1 SELECT
2     color,
3     COUNT(*) AS colorSame
4 FROM
5     `bigquery-public-data`.ncaa_basketball.team_colors
6 Group By
7     color
8 Order By
9     colorSame desc
10 LIMIT 5
11
12 ;
```

Run

Save query

Save view

Schedule query

More

Query results

SAVE RESULTS


EXPLORE WITH DATA STUDIO

Query complete (1.3 sec elapsed, 3.1 KB processed)


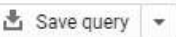



Job informationResultsJSONExecution details



Row	color	colorSame
1	#141414	9
2	#003366	5
3	#002147	4
4	#000000	3
5	#660000	3

6. Who got highest score in game of 2017?

 6

```
1 SELECT
2   first_name,
3   last_name,
4   points
5 FROM
6   `bigquery-public-data` . ncaa_basketball . mbb_players_games_sr
7 where
8   season = 2017
9 Order By
10  points desc
11
12 ;
```

 Run  Save query  Save view  Schedule query  More

Query results  SAVE RESULTS  EXPLORE WITH DATA STUDIO

Query complete (5.1 sec elapsed, 25.1 MB processed)

Job information Results JSON Execution details

Row	first_name	last_name	points
1	Markus	Howard	52
2	Jimond	Ivey	48
3	Trae	Young	48
4	Jerome	Robinson	46
5	Alante	Fenner	46
6	Jerrick	Harding	46
7	Peyton	Aldridge	45
8	Gabe	Levin	45
9	Fletcher	Magee	45

7. What is the average height and weight of players in ncaa?

6 Edited

```
1 SELECT
2     avg(height) as avgHeight,
3     avg(weight) as avgWeight
4 FROM
5     `bigquery-public-data`.ncaa_basketball.mbb_players_games_sr
6 where
7     height > 0
8 ;
```

Run Save query Save view Schedule query More

Query results [SAVE RESULTS](#) [EXPLORE WITH DATA STUDIO](#)

Query complete (1.4 sec elapsed, 13.5 MB processed)

Job information [Results](#) JSON Execution details

Row	avgHeight	avgWeight
1	76.92769014346786	202.5072984821138

8. Who get the higher score in a minute game in 2017?

6 Edited

```
1 SELECT
2     first_name,
3     last_name,
4     position,
5     (points/minutes_int64) as scorePerMinutes
6 FROM
7     `bigquery-public-data`.ncaa_basketball.mbb_players_games_sr
8 where
9     season = 2017 AND
10    minutes_int64 !=0
11 Order by
12     scorePerMinutes desc
13 ;
```

Run Save query Save view Schedule query More

Query results SAVE RESULTS EXPLORE WITH DATA STUDIO

Query complete (2.8 sec elapsed, 32.2 MB processed)

Job information Results JSON Execution details

Row	first_name	last_name	position	scorePerMinutes
1	Raine	McKeython	G	7.0
2	TJ	Parham	F	6.0
3	Snow	E.J.	G	5.0
4	Derrick	Flowers	G-F	5.0
5	Richard	Johnson	F	4.0
6	Avery	Wilson	G	4.0
7	Nate	Grimes	F	4.0
8	Greg	Tarca	G	4.0
9	Alexander	Strating	F	4.0

9. Who got more times of triple-double?

9

```
1 SELECT
2     full_name,
3     position,
4     count(*) as triDou
5 FROM
6     (select full_name, position, points, blocks, steals, rebounds, assists
7       from
8         `bigquery-public-data`.`ncaa_basketball`.`mbb_players_games_sr`
9       where
10         (points>=10 AND assists >=10 AND rebounds >=10) OR
11         (points>=10 AND assists >=10 AND steals >=10) OR
12         (points>=10 AND assists >=10 AND blocks >=10) OR
13         (points>=10 AND rebounds >=10 AND steals >=10) OR
14         (points>=10 AND rebounds >=10 AND blocks >=10) OR
15         (points>=10 AND steals >=10 AND blocks >=10) OR
16         (assists>=10 AND rebounds >=10 AND steals >=10) OR
17         (assists>=10 AND rebounds >=10 AND blocks >=10) OR
18         (assists>=10 AND steals >=10 AND blocks >=10) OR
19         (rebounds>=10 AND steals >=10 AND blocks >=10)
20       )
21   )
22   Group by
23     full_name, position
24   Order by
25     triDou desc
26
27 ;
```

Run

Save query

Save view

Schedule query

More

Query results

SAVE RESULTS

EXPLORE WITH DATA STUDIO

Query complete (3.5 sec elapsed, 39.5 MB processed)

Job information


Results

JSON


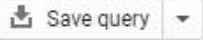



Execution details



Row	full_name	position	triDou
1	Kyle Collinsworth	G	12

10. Which team got more fouls in 2017?

 9 Edited

```
1 SELECT
2     team_name,
3     sum(fouls) as teamFouls
4 FROM (
5     SELECT
6         team_name, season,
7         (personal_fouls+ tech_fouls+ flagrant_fouls) as fouls
8     FROM
9         `bigquery-public-data`.ncaa_basketball.mbb_players_games_sr )
10 WHERE
11     team_name IS NOT NULL AND season =2017
12 Group by
13     team_name
14 Order by
15     teamFouls desc
16 ;
```

 Run  Save query  Save view  Schedule query  More

Query results  SAVE RESULTS  EXPLORE WITH DATA STUDIO

Query complete (2.2 sec elapsed, 27 MB processed)

Job information Results JSON Execution details

Row	team_name	teamFouls
1	Wildcats	3614
2	Bulldogs	3562
3	Tigers	3533
4	Cougars	1808
5	Rams	1618
6	Aggies	1463