

👍 **Milestone 3** | ESPN's 10 Years of Top 10

INTRODUCTION: In this SkillBuilder, you've learned how to create three of the most fundamental types of charts: bar charts, line charts, and histograms. Along with creating these charts, you learned how to create calculated fields in Tableau, which lets you combine existing features into new ones, leading to richer analyses.

In this Milestone, you'll be practicing your Tableau skills with a dataset featuring ten years of the top 10 highest-paid athletes in the world, from 2012 to 2022.

HOW IT WORKS: Follow the prompts in the questions below to investigate your data. Post your answers in the provided boxes: the **yellow boxes** for the queries you write, **purple boxes** for visualizations and **blue boxes** for text-based answers. When you're done, export your document as a pdf file and submit it on the Milestone page – see instructions for creating a PDF at the end of the Milestone.

RESOURCES: If you need hints on the Milestone or are feeling stuck, there are multiple ways of getting help. Attend Drop-In Hours to work on these problems with your peers, or reach out to the HelpHub if you have questions. Good luck!

PROMPT: You've been hired by ESPN to contribute to their Ten Years of Top Ten project. In particular, your job is to analyze, summarize, and visualize trends in the past ten years of the top ten highest-paid athletes. In the visualizations you create, never forget to add titles (maybe even subtitles!) to bring home your analysis.

SQL App: [Here's that link](#) to our specialized SQL app, where you'll write your SQL queries and interact with the data.

– Data Set **Description**

The Forbes list of highest paid athletes (`forbes.highest_paid_athletes`) consists of ten years of the top ten highest-paid athletes in the world, from 2012 through 2022. Here are variables that you'll be using in this Milestone:

- **year** - year of earnings, defined by 12 months leading to May 1st
 - **rank** - An athlete's rank (1-10) for a given year, based on their total earnings
 - **name** - Athlete's name
 - **sport** - Athlete's sport
 - **country** - Country the athlete represents
 - **total_earnings_mil** - Total annual earnings for a given athlete in a given year, in millions \$USD
 - **on_field_earnings_mil** - On-field earnings figures include prize money, salaries and bonuses for a given athlete in a given year, in millions \$USD
 - **off_field_earnings_mil** - Off-field earnings figures are an estimate of sponsorship deals, appearance fees, and memorabilia and licensing income for a given athlete in a given year, in millions \$USD
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– Task 1: Query the Data

- A. Write a query that returns all the values in the dataset (forbes.highest_paid_athletes). Copy and paste your query into the box below.

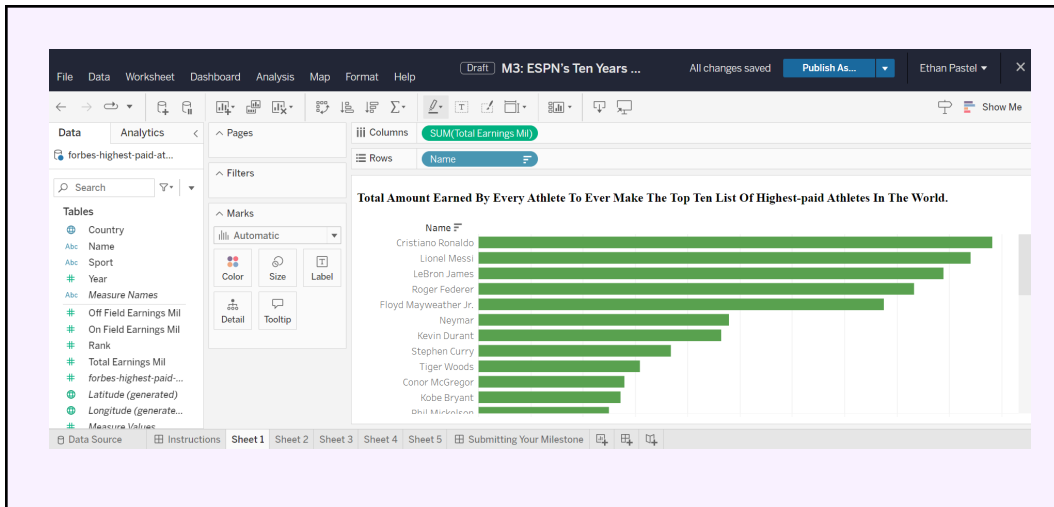
```
SELECT *  
FROM forbes.highest_paid_athletes
```

- B. While you'd typically download the output of your query as a .csv file and upload this .csv file to a Tableau workbook, that's already been done for you! [Click this link](#) to navigate to the workbook you'll use to complete the remainder of this Milestone. Once you've published your Tableau Workbook in the folder named Upload Workbooks Here, paste the Share Link in the box below.

<https://prod-useast-b.online.tableau.com/t/globaltech/views/Milestone3Pastel/Sheet5>

– Task 2: Who are the highest paid athletes?

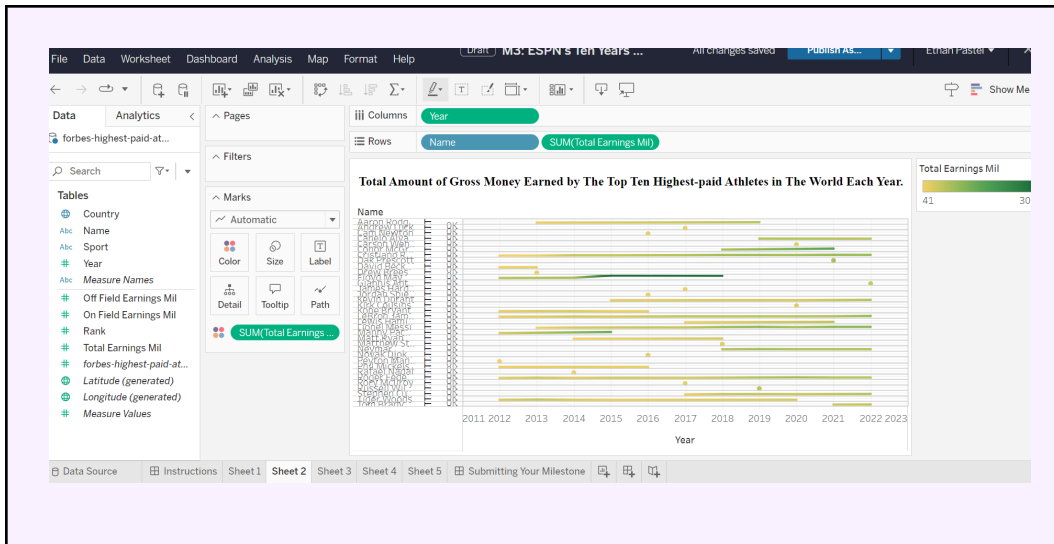
On Sheet 1 of your workbook, create a bar chart to show the total amount earned by every athlete to ever make the top ten list of highest-paid athletes in the world. Which athlete has made the most money in the years they've made the list? Paste your visualization into the blue box, and the name of the highest-paid athlete in the yellow box. HINT: Your visualization might look like [this visualization](#).



Cristano Ronaldo made the most money out of the top ten highest paid athletes in the last ten years.

– Task 3: Ten Years of Top Ten

On Sheet 2 of your workbook, create a line chart to show the total amount of gross money earned by the top ten highest-paid athletes in the world each year. What is the general trend in earnings by the top ten highest-paid athletes? In what years are the top athletes earning the most? In what years are they earning the least? Paste your visualization and write your answer below.

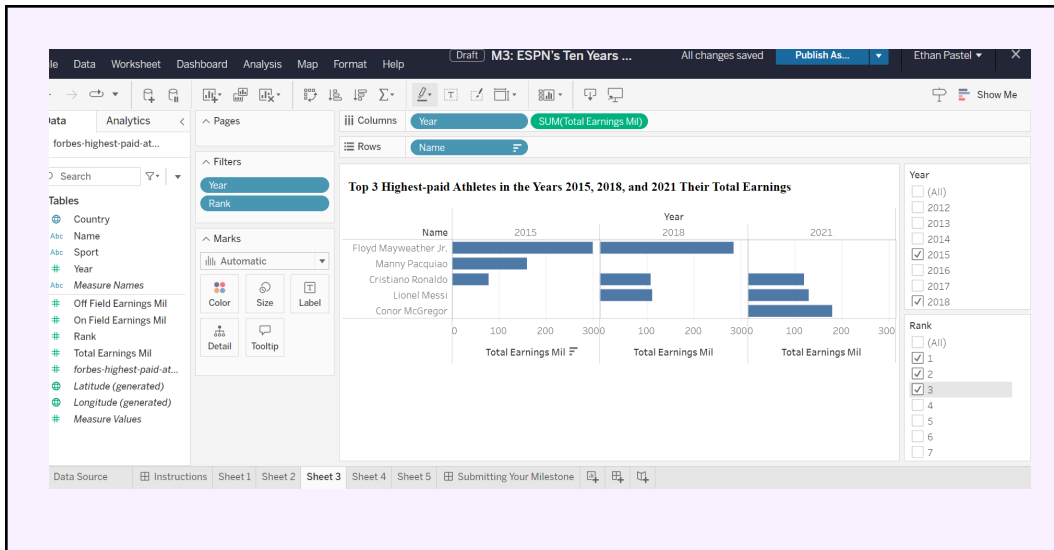


1. The general trend among the top ten highest paid athletes in the world per year is that they are famous athletes that are very popular or recognizable figures compared to the athletes that didn't make the top ten. The general trend in terms of earnings each year is that the amount an athlete earned, almost consistently increased each year.
2. The years the top athletes are earning the most amount of money is mostly the year 2021 and 2022.
3. The years the top athletes are earning the least is the year 2012 and 2013, when the athletes first made it on the list for highest paid athletes.

– Task 4: Securing a Fortune in One Night of Work

Let's investigate the peaks in cumulative earnings seen in 2015, 2018, and 2021.

- A. On Sheet 3, create a bar chart that shows for only the top 3 highest-paid athletes in the years 2015, 2018, and 2021 their total earnings. HINT: you'll use both rank and year in your filter. Paste your visualization below.



B. Which athletes are ranked number 1 in 2015, 2018, and 2021? In what sport do they compete?

The athlete that is ranked number 1 in 2015 is floyd maywether, 2018 floyd mayweather is still number 1 and finally for 2021 conor mcgreggor was 1st. Floyd mayweather is a boxer and conor mcgreggor is a mixed martial artist

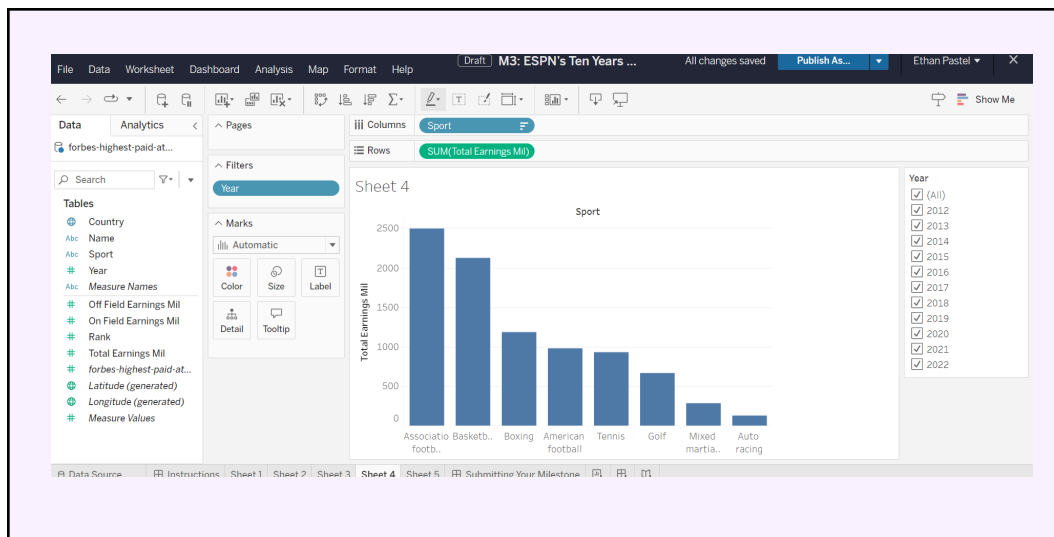
C. What events occurred in 2015 and 2018 that led to the top earner making his millions? If you don't know, use the internet to help you find the answer!

In 2015, floyd mayweather fought against manny Pacquiao, which was deemed the fight of the century since both fighters are supposed to be the best of the best. Their fight attracted hordes of viewers. In 2018 mayweather fought against conor mccgreggor, which was another highly anticipated fight because it pitted the best pound for pound boxer in the world, mayweather, against one of the best mixed martial artists in MMA, conor Mcgreggor.

D. LevelUp. Let's make this visualization really pop. Create a calculated field called is-boxing that returns "Boxing" if the sport is Boxing and otherwise returns "Other". Add this calculated field to Color in the Marks of your visualization, and edit the colors so that "Boxing" is emphasized and "Other" is not.

– Task 5: Footballers & Basketballers

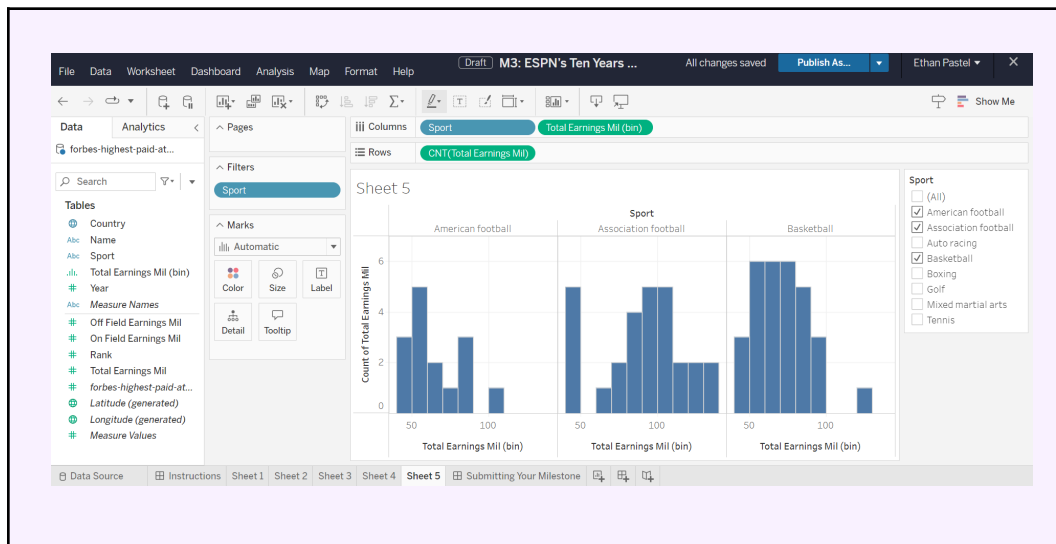
A. On Sheet 4, create a bar graph to show the total amount of money earned between 2012 and 2022 in each sport category. What are the two highest-paid sports? Paste your visualization and write your answers below.



The two highest paid sports between 2012 and 2022 is Soccer (aka association football) and Basketball

B. On Sheet 5, create a histogram of the total annual earnings. Use a bin size of 10. Add sport to the columns and filter so that you see only the distribution of total earnings for footballers and basketballers side-by-side. Describe the

difference in distribution of total earnings between footballers and basketballers. Paste your visualization and write your answer below.



Based on the difference in distribution between soccer, basketball, and american football, I can infer that soccer players earn the most amount of money, followed by basketball players and finally american football players.

C. LevelUp. You might notice that there is only one basketballer to ever surpass earning \$100 million in a single year, but that this is a milestone 11 footballers have achieved. Create a calculated field called **100 million** that returns TRUE if the total earnings is greater than \$100 million and FALSE otherwise. Add this calculated field to Color in the Marks of your visualization, and edit the colors so that the number of times the \$100 million threshold has been exceeded is highlighted.

– Submission

Great work completing this Milestone! To submit your completed Milestone, you will need to download / export this document as a PDF and then upload it to the

Milestone submission page. You can find the option to download as a PDF from the File menu in the upper-left corner of the Google Doc interface.