# Data Analysis Questions for Player Data

## 1. Player Information Analysis

Use the "Player Info" data to answer the following questions:  
1. Which nationalities are most common among the players?  
2. What is the average height and age of players by nationality?  
3. Are there any significant age groups represented in the data? If so, how do they distribute across nationalities?  
4. What is the height distribution among players of different positions?  
5. Identify the age range of players and analyze the distribution across different clubs or leagues.

## 2. Player Performance Analysis

Use the "Player Stats" data to explore player performance metrics and answer the following:  
1. Which players scored the highest number of goals? How many of those goals were penalties?  
2. What are the top players in terms of assists, passes, and shots on target?  
3. Which players had the highest number of interceptions, and blocks?  
4. Analyze player performance by position. Are certain positions associated with higher averages in goals, assists, or interceptions?  
5. Investigate club performance by aggregating player stats per club (e.g., total goals, assists). Which clubs have the strongest statistics?

## 3. Salary Analysis

Using the "Salary" data, address the following questions:  
1. What is the average salary per player? How does it vary by nationality or position?  
2. Identify the highest and lowest-paid players. What are their roles and clubs?  
3. Analyze salary distribution by creating salary ranges (e.g., 1-2M, 2-3M). How many players fall into each range?  
4. Does salary have a noticeable correlation with player performance metrics such as goals or assists?  
5. Explore which clubs have the highest average player salary and how salary expenses are distributed across clubs.

## 4. Combined Data Analysis

By combining information from all datasets, analyze the following:  
1. Is there a correlation between player age and performance metrics such as goals or assists?  
2. Are players from certain nationalities or clubs generally higher-paid? How does this affect their performance?  
3. Identify any patterns in salary, age, and position. For example, are forwards generally older or more highly paid?  
4. Create a dashboard to visualize top players by performance metrics like goals, assists, and salaries.  
5. Generate a report to summarize the findings and highlight any insights or anomalies.