**ChatGPT Responses**

1. **Prompt used : How many players are listed in the dataset?**

LLM Ans: There are 34 players in the dataset.

Prompt used : you are wrong,check again and give the correct answer for the question "How many players are listed in the dataset"

LLM Ans: There are 32 players listed in the dataset.

1. **Prompt used: What is the average number of goals (g) scored per player?**

LLM Ans: The average number of goals scored per player is **7.31**.

1. **Prompt used: Which player scored the highest number of goals (g)?**

LLM Ans: The top goal‑scorer in the dataset is **Emma Muchnick** with **34 goals**.

1. **Prompt used: Who had the most assists this season?**

LLM Ans: Top assister: Ward, Emma with 46 assists

1. **Prompt used: Which player had the highest goals per game ratio?**

LLM Ans: The player with the highest goals per game (GPG) ratio is:

Muchnick, Emma with a ratio of 2.43 goals per game  
(She scored 34 goals in 14 games)

Prompt used: The above answer is wrong, check the dataset and give me answer which have maximum g/gp ratio

LLM Ans: The player with the highest goals per game (GPG) ratio is Olivia Adamson, scoring 10 goals in 3 games, which gives a GPG ratio of 3.33.

1. **Prompt used: Who had the highest shooting accuracy and shot-on-goal percentage?**

LLM Ans: The player with the highest shooting accuracy (SH%) is Rich, Mackenzie with a shooting percentage of 1.0 (100%).

The player with the highest shot-on-goal percentage (SOG%) is Peters, Bri with a shot-on-goal percentage of 1.0 (100%).

1. **Prompt used: How many players caused more than 5 turnovers ?**

LLM Ans: **12 players** caused more than 5 turnovers in the dataset.

Prompt used: the above answer is wrong, give me the correct answer, players who have more than 5 ct?

LLM Ans: The correct number of players who caused more than 5 turnovers (CT > 5) is 10 players.

1. **Prompt used: Which player had the most combined offensive contribution ?**

LLM Ans: The player with the **most combined offensive contribution** (Goals + Assists) is **Ward, Emma**, with a total of **76 contributions**.

1. **Prompt used: Who had the highest impact on defense ?**

LLM Ans: The player with the highest impact on defense is Rode, Meghan, with a defense impact score of 76.

1. **Prompt Used: What is the correlation between shots )taken and goals scored?**

LLM Ans: Yes, there is a strong positive correlation between shots (sh) taken and goals (g) scored.

Correlation Coefficient (Pearson r): ~0.93

This means that as the number of shots increases, the number of goals scored also tends to increase proportionally. A correlation value close to 1 indicates a strong linear relationship.

Prompt Used: The above answer is wrong, check the dataset and give correct answer

LLM Ans: The correlation coefficient between shots (sh) and goals (g) is **0.**99, indicating an extremely strong positive correlation. This means players who took more shots generally scored more goals.

1. **Prompt Used: Who was the most improved player?**

LLM Ans: Based on the dataset and analysis, the most improved player appears to be Syracuse, Megan Carney.

**Reason:**

* She had a high combined offensive contribution (G + A = 69) and excellent shooting metrics.
* But to formally define "most improved", we would ideally need stats from previous seasons to measure growth. Since the dataset contains data for only one season, we estimate "improvement" through standout overall performance compared to teammates.

Would you like to define your own logic for “improvement” (e.g., high efficiency with fewer games played, or best improvement in second half of season if date-wise stats were available)? I can help automate that with code.

Prompt Used: Consider “improvement” as high efficiency with fewer games played

LLM Ans: Great! Since we only have one season's data, I'll define the "Most Improved Player" based on the following logic:

**Definition of Improvement:**

A player who had:

1. Fewer games played (gp) - indicating limited field time earlier in the season or career.
2. High goals per game (g/gp) and assists per game (a/gp) - indicating exceptional performance *when* given the opportunity.
3. Good shooting accuracy (sh%) - meaning efficiency, not just volume.

**Selected Player: Thomson, Olivia**

* Games Played (gp): 7 (very low)
* Goals (g): 14
* Assists (a): 7
* Goals per game: 2.0 (14 ÷ 7)
* Assists per game: 1.0
* Shooting Accuracy (sh%): 77.8% – highest in the team

Why She’s Most Improved:

* Despite limited playtime, Olivia Thomson demonstrated exceptional efficiency and impact per game.
* She has the highest shooting accuracy and one of the top goals/game ratios, suggesting she made the most of every opportunity.
* If given more game time, she would likely rank among the top performers.

Prompt Used: The above answer is wrong ,check the details correctly and give correct answer using the dataset

LLM Ans: **Most Improved Player: Olivia Adamson**

**Why?**

* She played only **3 games,** which is among the fewest.
* Scored **10 goals** and **6 assists.**
* Had a **shooting accuracy** of **55.6%**.
* Her **impact score** (based on goals/game, assists/game, and shooting %) is the highest among low-playtime players.

**Performance Summary:**

* **Goals per Game:** 3.33
* **Assists per Game:** 2.0
* **Impact Score:** 5.34