

JOURNEY TO YOUR BEST

CHALLENGE 0

TOP-DOWN APPROACH

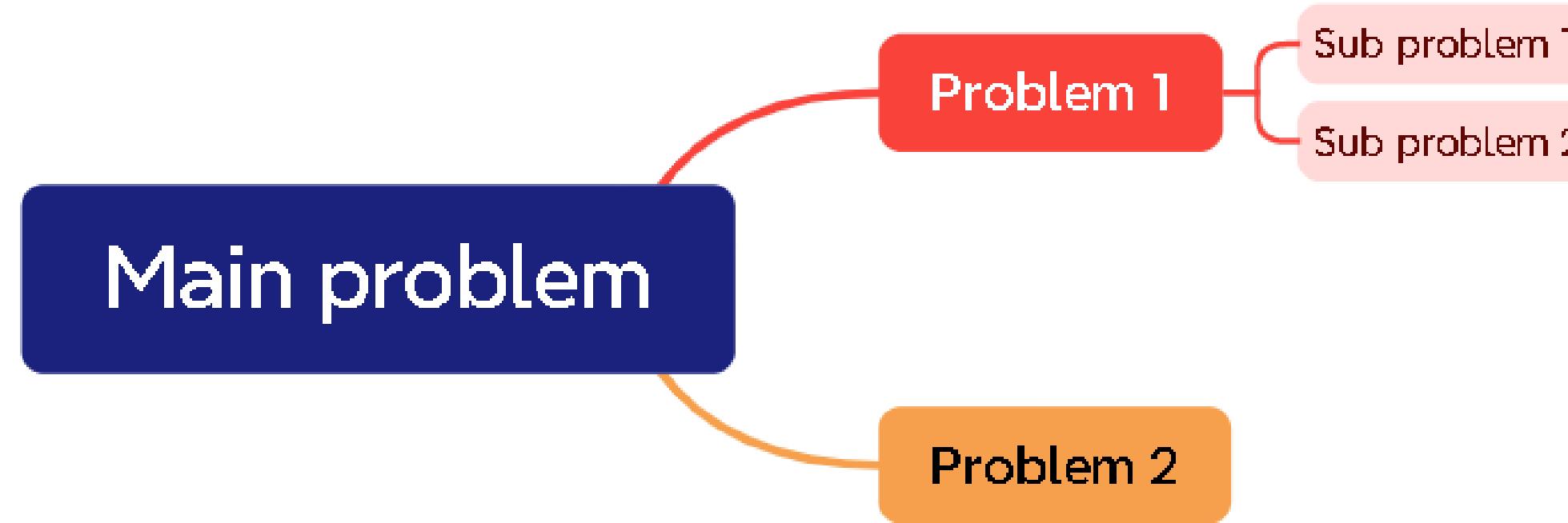


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1. What is top-down approach?



The **top-down approach** is a **problem-solving** that involves starting with the **highest level of abstraction** and breaking it down into **smaller, more manageable components**.

2. Benefit of Top-Down Approach

Minimized Risk: Reducing the chance of problems arising.

Clear Accountability: Decision-making authority is clear, useful in crises.

Systematic Design: The design process is organized and divided efficiently.

Efficiency: Executives can quickly plan and delegate tasks.

Rapid Implementation: Decisions are implemented quickly.

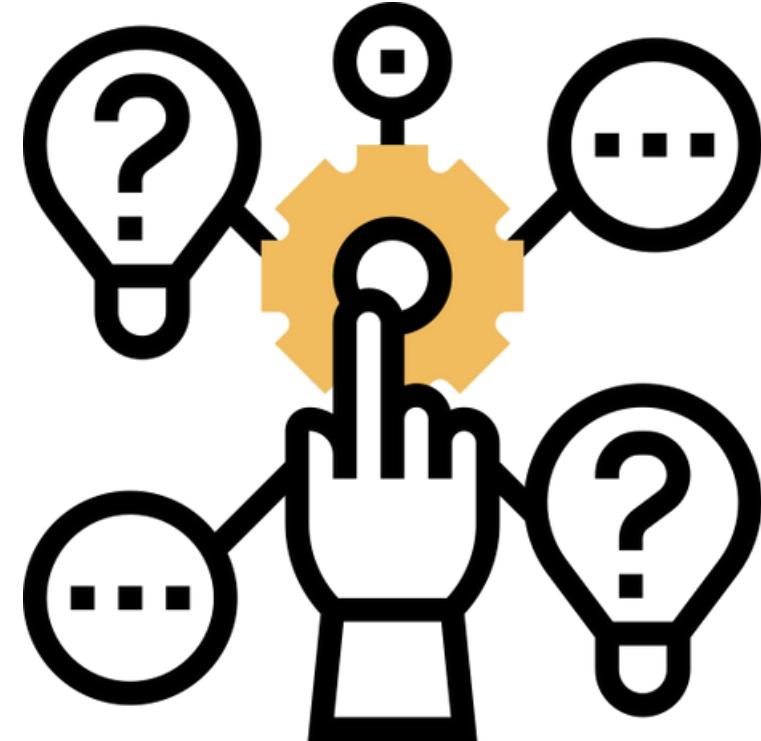
3. Applying the Top-Down Approach



Step 1: Define the Problem

Start by identifying the overall **goal** or **problem** that needs to be **solved**.

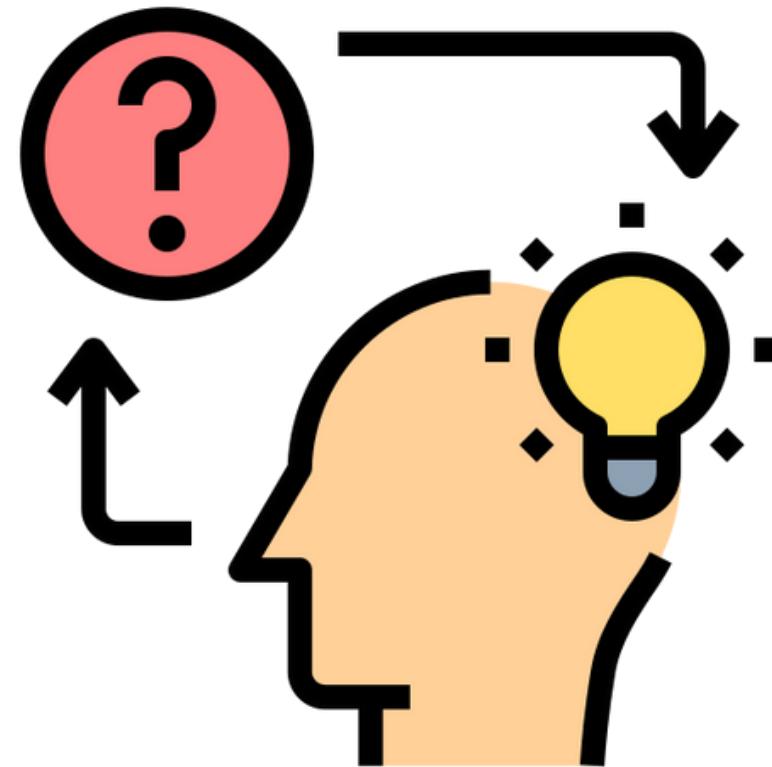
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Step 2: Break Down the Problem

Divide the problem into smaller sub-problems or components. This can be done by creating a **flowchart, UML diagram,...**

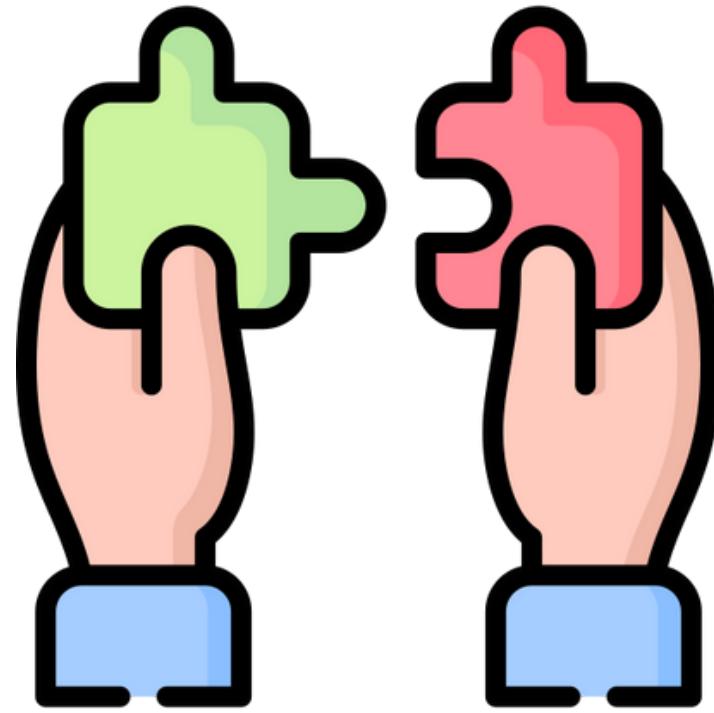
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Step 3: Solve Each Sub-Problem

Develop **solutions** for each **sub-problem**. This often involves writing **functions** or **methods** for each sub-problem.

3. Applying the Top-Down Approach



Step 4: Assemble the Solution

Once all **sub-problems** have been solved, **assemble** them to form the complete **solution**. This involves calling the **functions** or **methods** in the required order.

4. Example

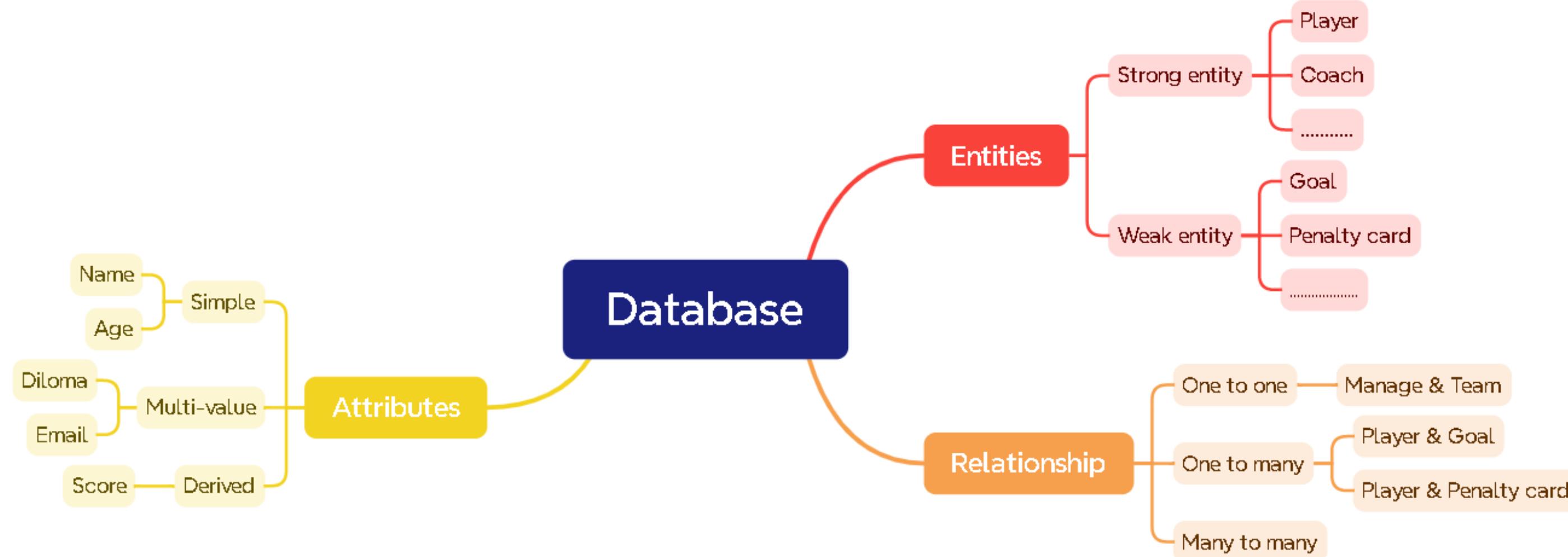
Exercise: Create a database for managing football teams in a club.

Requirement: include all entity types, relationships, and attributes that you have learned.



4. Example

Using Top-down approach



CONCLUSION

- The **top-down approach** is a strategic planning method that starts with the **big picture** and breaks it down into **smaller components**.
- It is applicable in **various scenarios**, including project management, goal setting, and problem-solving.
- By following the top-down approach, organizations can achieve **efficiency**, **clarity**, and **alignment** in their operations.



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THANK YOU



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