

Specification of business processes

1. Business goals of the organization

"Sunshine Kids" is a network of kindergartens focused on fostering children's learning progress and providing nutritious meals. Learning progress assessments and meal service are conducted solely within the premises; the company does not offer remote services. The primary objective of the kindergarten network is to optimize learning outcomes and ensure the highest quality meal provision. To achieve this, Emily Bright, the CEO, **wants to maintain the learning results level or increase it every month**. Emily monitors two key metrics: **grades of individual children** and **the attendance of children**. She considers kindergarten successful if there is a **consistent upward trend in both metrics**.

Currently, Emily's main challenge is understanding the factors contributing to fluctuations in learning progress within a given month.

Critical aspects of the kindergarten business include educational activities and meal provision. Each child's progress is assessed across various learning domains, such as cognitive, social, and emotional development. Meals served are planned to meet nutritional standards and cater to dietary preferences or restrictions.

Moreover, Emily seeks to identify the most effective teachers and assess which meal options are most popular among the children.

2. Business processes

Teaching Children in Kindergarten:

- a. **General Description of the Business Process:** The process of teaching children at "Sunshine Kids" kindergarten begins with educators designing and implementing engaging learning activities across various domains such as cognitive, social, and emotional development. Progress is monitored regularly to assess learning outcomes. Additionally, attendance is strictly monitored.
- b. **Typical Questions:**
 - Compare the learning progress of children based on attendance.
 - Compare the results of children across different disciplines.
 - Identify top 10 children considering results from all the tests.
 - Identify the most effective teachers based on monthly test results.
 - Compare the results between years
 - Analyze the correlation between grades in various learning domains.
- c. **Data:** All data related to students, teachers, courses and attendance are extracted from the internal system "Sunshine Learning Portal". In addition, data about grades from each test is stored in the csv file.

Meal providing

- a. **General Description of the Business Process:** The meal provision process in the kindergarten functions as follows: Each week, a designated staff member is tasked with overseeing meal provision for the children. Meal plans are created to ensure balanced nutrition and variety throughout the week. After the meal children grade the previous meal (if it was tasty and they are satisfied with the size of it). In the future meal grading will be used to create tastier meals for them.
- b. **Typical questions:**
- What type of food children like the most
 - What food is served most often
 - What type of food children do not like the most
 - How many children are vegetarian
 - Does the size of the meals is good
- c. **Data Sources:**
- All data regarding meal provision are sourced from the kindergarten's meal provision system.