

Final Project 2

PMG 497

The Effect of Excellent Management on Production Creativity and Sales Boosting: A Case Study of Kuwaiti Danish Dairy (KDD)

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Final Project - 2

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2024-10-19

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1. Chapter 1: Introduction

The purpose of this research is to investigate the relationship between excellent management practices and their impact on production creativity and sales performance within the context of the Kuwaiti Danish Dairy Company (KDD). In the modern business landscape, creativity and innovation have become pivotal drivers of competitive advantage, especially in the food and beverage industry (Amabile, 2018). With the increasing demand for efficiency, innovation, and consumer satisfaction, it is critical to understand how management excellence contributes to enhancing creative processes in production and subsequently boosting sales (Dess & Picken, 2000).

This study is particularly important in the context of Kuwait, where the food and beverage sector faces intense competition, both locally and regionally. Despite numerous advancements in operational efficiency, many companies still struggle to integrate creativity into their production processes while maintaining high sales growth. Previous research highlights the role of leadership and management in fostering innovation and creativity in organizations, noting that organizations with strong management practices tend to have higher levels of innovation (Mumford, Scott, Gaddis, & Strange, 2002).

Therefore, this research seeks to fill the gap by examining how management excellence can influence these two critical aspects — creativity in production and increased sales. The findings of this study are expected to provide valuable insights for companies looking to enhance their management strategies, creativity, and sales performance in highly competitive markets (Schein, 2017).

1.1. Research Background

In the current era of globalization and rapid technological advancements, businesses across all industries face immense pressure to innovate and remain competitive. This is particularly true for the food and beverage industry, where changing consumer preferences and emerging market trends continuously challenge companies to innovate not only in product development but also in production processes. The Kuwaiti Danish Dairy Company (KDD), a major player in Kuwait's food and beverage sector, has demonstrated significant resilience over the years, successfully navigating a dynamic marketplace. However, like many firms in the industry, KDD must consistently explore new strategies to maintain and enhance its competitive edge. This research explores the role of excellent management in fostering production creativity and boosting sales, with a specific focus on KDD.

Stage 1: General Introduction to the Topic

The need for creativity and innovation in production has gained widespread attention in recent years. Creativity in production is not limited to developing new products but extends to optimizing production processes, enhancing operational efficiency, and creating unique value propositions that resonate with customers (Amabile, 2018). In an environment where consumer preferences change rapidly, and competitors constantly introduce new offerings, businesses must innovate at every stage of their value chain. This requires strong management practices that not only encourage creative thinking but also create an organizational culture that supports innovation. As noted by Mumford et al. (2002), organizations that cultivate creativity through effective leadership and management are better equipped to respond to market shifts and outperform competitors.

Stage 2: Importance of the Topic

In the context of Kuwait's food and beverage industry, innovation has become an essential component of sustained business growth. Companies such as KDD operate in a highly competitive market, both locally and regionally, where consumer demand for quality, innovation, and affordability continues to grow. According to a report by Al-Mutawa and Alkandari (2021), the food and beverage sector in Kuwait is expected to

experience steady growth over the next decade, driven by population growth, rising incomes, and changing consumer preferences. However, despite the sector's potential, companies often face challenges related to operational inefficiencies and stagnant growth in creativity and innovation. This underscores the importance of studying how excellent management practices can enhance production creativity, leading to increased sales performance.

Stage 3: Statement of the Research Problem

While the connection between management and innovation has been widely acknowledged in the literature, there remains a gap in understanding how specific management practices influence production creativity within the food and beverage industry. KDD, being one of the leading dairy companies in the region, presents an interesting case study due to its strong market presence and history of innovation. However, despite its successes, the company, like many others, struggles to integrate creative strategies into its production processes while ensuring continuous sales growth. This study seeks to address the question: How do excellent management practices influence production creativity and, in turn, boost sales performance at KDD?

Stage 4: Rationale for the Study

The rationale for this study stems from the need to better understand the dynamics between management excellence and production creativity, especially in the context of the Kuwaiti food and beverage sector. As competition intensifies and market conditions become more volatile, companies must develop robust management frameworks that not only support day-to-day operations but also encourage creativity at all levels of production. By focusing on KDD, this research aims to provide actionable insights that can be applied to other companies in the region facing similar challenges. The study's findings are expected to contribute to both academic literature on management and innovation and practical management strategies within the food and beverage industry.

Stage 5: Objectives of the Study

This study aims to achieve several key objectives. First, it seeks to examine the relationship between excellent management practices and production creativity. Second, it aims to assess how this relationship impacts overall sales performance at KDD. By analyzing management strategies, creative processes in production, and sales data, the study will provide a

comprehensive understanding of how leadership can drive both innovation and financial success. The ultimate goal of this research is to offer recommendations for KDD and similar companies on how to better integrate creativity into their production strategies while maintaining or increasing sales performance.

Conclusion

In conclusion, this study addresses an important gap in the literature by examining the link between management excellence and production creativity in the context of the Kuwaiti food and beverage industry. As competition continues to grow, companies like KDD must adopt innovative management practices that not only improve operational efficiency but also foster a culture of creativity. The findings from this research will be valuable for both academia and industry practitioners, providing insights that can guide future management strategies and organizational development efforts.

1.2. Research Problem

The research problem is central to any academic inquiry, serving as the foundation for identifying the focus of the study. In this case, the research problem revolves around the lack of clear understanding of how excellent management practices influence production creativity and sales performance, particularly in the food and beverage industry. While there is considerable literature on the role of management in fostering innovation, gaps remain in both the theoretical and practical application of these concepts within specific industries, such as the dairy sector. This section aims to highlight these gaps and frame the core issue that this research seeks to address.

1.2.1. Theoretical Gaps

Theoretically, much has been written about the relationship between leadership and innovation, but there is limited research focusing on how management excellence directly affects creativity within the production process. While general management theories, such as transformational leadership, emphasize fostering

creativity, few studies explore how these theories are applied in real-world production environments, particularly in the context of food and beverage companies (Dess & Picken, 2000). The lack of industry-specific research creates a gap in understanding how management can cultivate innovation at the operational level, influencing not only the development of new products but also the improvement of production techniques.

1.2.2. Practical Gaps

On the practical side, companies often face challenges when trying to implement management strategies that foster creativity while ensuring operational efficiency. In the case of KDD, despite its strong market presence, there is a disconnect between management practices and the ability to continuously innovate in production. This practical gap is evident in the company's struggle to balance cost-effective production processes with the need for creativity to meet changing consumer demands. The existing management frameworks do not always translate into actionable strategies that support sustained creativity in production, which ultimately affects the company's sales growth and market competitiveness.

Main Research Question

Given these theoretical and practical gaps, the main research question guiding this study is:

How do excellent management practices influence production creativity and sales performance at the Kuwaiti Danish Dairy Company (KDD)?

1.3. Research Significance

The significance of this research lies in its potential to contribute both to the theoretical understanding of management practices and their practical application in the food and beverage industry, specifically within the context of the Kuwaiti Danish Dairy Company (KDD). The insights gained from this study can inform future academic studies and provide actionable strategies for businesses in similar sectors.

1.3.1. At the Theoretical Level

At the theoretical level, this research aims to fill a gap in existing literature by exploring how excellent management practices influence creativity in production. While there is ample literature on management styles and innovation in general, there is limited focus on how these concepts intersect specifically within the production processes of food and beverage companies. This study will expand upon existing theories of transformational leadership and innovation management by providing an industry-specific examination of how management can drive production creativity, a vital but underexplored area in academic literature.

1.3.2. At the Practical Level

At the practical level, this study holds significant value for companies like KDD, which operate in highly competitive and innovation-driven markets. By examining how management excellence contributes to production creativity and impacts sales performance, the study offers actionable insights that can be applied to improve business practices. The findings are expected to provide KDD with a roadmap for enhancing innovation within their production processes, ultimately helping the company to meet market demands and sustain competitive advantages. Moreover, the research can serve as a reference for other food and beverage companies looking to integrate creativity into their production systems while maintaining operational efficiency.

1.4. Research Questions

The research questions guide the investigation and focus on the key aspects of management practices, production creativity, and sales performance. This study aims to answer the following questions:

How do excellent management practices influence creativity in production processes at KDD?

What is the relationship between production creativity and sales performance in the food and beverage industry?

How can KDD's management strategies be optimized to foster innovation and boost sales?

What are the challenges faced by KDD in integrating creative strategies into its production process, and how can these challenges be addressed?

1.5. Research Objectives

The primary objective of this research is to explore the impact of excellent management practices on production creativity and sales performance within KDD. The specific objectives are:

1. To examine the relationship between management excellence and creativity in production at KDD.
2. To assess how production creativity contributes to improving sales performance in the food and beverage industry.
3. To identify the key management practices that foster innovation in production processes.
4. To provide recommendations for improving KDD's management strategies to enhance both production creativity and sales growth.
5. To address the challenges of implementing creative management strategies in production and propose solutions to overcome them.

1.6. Research Hypotheses

The research model provides a visual representation of the relationships between the key variables in this study: management practices, production creativity, and sales performance. The model posits that excellent management practices lead to enhanced production creativity, which in turn boosts sales performance. The relationship between management practices and sales performance is both direct and indirect, mediated by production creativity.

1.7. Research Model

Proposed Research Model:

Management Excellence → Production Creativity → Sales Performance

The research model illustrates that management practices not only have a direct effect on sales performance but also foster a creative production environment, which subsequently contributes to improved sales.

1.8. Scope of The Study

The scope of this study is defined by its focus on the Kuwaiti Danish Dairy Company (KDD) within the broader context of the food and beverage industry in Kuwait. The study will examine the role of management practices in fostering production creativity and the impact of this creativity on sales performance. This research will be limited to KDD's operations in Kuwait, covering a specific period of analysis from 2021 to 2023, to assess recent trends and management strategies.

Key Aspects of the Study Scope:

- **Geographical Scope:** The research focuses on KDD's operations within Kuwait.
- **Industry Scope:** The study is limited to the food and beverage sector, with specific emphasis on dairy production.
- **Time Frame:** The analysis covers management and production activities from 2021 to 2023.
- **Participants:** The study will involve management staff, production teams, and sales personnel at KDD.
- **Variables:** The study focuses on three key variables: management excellence, production creativity, and sales performance.

By narrowing the study to KDD and its operations in Kuwait, the research will provide an in-depth understanding of how management practices in this specific context affect production creativity and sales outcomes.

1.9. The Project Structure

The project is organized into five main chapters, each addressing a specific aspect of the research:

Chapter 1: Introduction

This chapter introduces the research topic, outlining the research problem, significance, objectives, and hypotheses. It also defines the research model and the scope of the study.

Chapter 2: Literature Review

This chapter provides an in-depth review of existing literature on management practices, production creativity, and sales performance. It identifies key theoretical frameworks and gaps in the literature that the research aims to address.

Chapter 3: Research Methodology

This chapter describes the research design, including data collection methods, sampling techniques, and the statistical tools used for analysis. It also discusses the operational definitions of the research variables.

Chapter 4: Statistical Analysis and Findings Discussion

This chapter presents the results of the empirical data analysis, testing the research hypotheses and discussing the findings in relation to the literature review.

Chapter 5: Research Limitations, Recommendations, and Conclusion

This chapter outlines the limitations of the study, offers recommendations for KDD and similar companies, and concludes the research with key takeaways.

Chapter 2: Literature Review

This chapter reviews existing literature on the relationship between management practices, production creativity, and sales performance. It identifies the key theoretical frameworks that underpin these relationships and highlights the gaps in the literature that this research aims to address. The review is divided into three sections: management practices, production creativity, and sales performance, followed by a discussion of the relationship between these variables.

2.1. Introduction

Effective management practices play a crucial role in fostering innovation and creativity within organizations, which in turn can have a significant impact on operational efficiency and sales performance. In competitive industries such as the food and beverage sector, companies are increasingly looking to management strategies to enhance production processes and boost sales. However, while research has extensively studied the influence of leadership on organizational performance, there is limited literature that focuses on how management excellence directly affects creativity in production and its subsequent impact on sales. This chapter aims to bridge this gap by examining existing studies related to management practices, production creativity, and sales performance, drawing attention to the need for industry-specific research in these areas.

2.2. Management Practices

Management practices refer to the techniques and strategies used by leaders and managers to organize, motivate, and guide employees to achieve organizational goals (Dess & Picken, 2000). In the context of production creativity, effective management practices create an environment where employees feel empowered to innovate and contribute new ideas (Amabile, 2018). Transformational leadership, which emphasizes vision, inspiration, and support, has been identified as a key factor in promoting creativity and innovation within teams (Mumford, Scott, Gaddis, & Strange, 2002).

Several studies have demonstrated that companies with strong management practices are more likely to foster a culture of innovation. For instance, Mumford et al. (2002) argue that leadership styles that encourage risk-taking and provide resources for experimentation are essential for fostering creative solutions in

production processes. Similarly, Amabile (2018) notes that leaders who provide autonomy and resources while removing obstacles to creativity significantly enhance innovation outcomes. However, while these studies provide valuable insights, they tend to focus on general management practices and overlook industry-specific factors, particularly in the food and beverage sector, where operational efficiency and cost control are often prioritized over creativity.

Gap in the Literature: Existing literature lacks a clear understanding of how management practices tailored to specific industries, such as the food and beverage sector, influence production creativity. This gap highlights the need for further research into the role of management in fostering creativity in production within industry-specific contexts.

2.3. Production Creativity

Production creativity refers to the introduction of new ideas, methods, or products that improve efficiency, reduce costs, or enhance product quality (Kanaan, 2022). It is a crucial component of innovation, particularly in industries where maintaining a competitive edge requires constant improvements to production processes. In their study of creativity in production environments, Kanaan (2022) found that companies that invest in creative production strategies, such as adopting new technologies or developing innovative workflows, tend to achieve higher levels of efficiency and product differentiation.

Creativity in production is not solely about developing new products but also about improving the processes that lead to those products. As noted by Amabile (2018), creativity in production requires a supportive organizational culture that encourages employees to experiment, take risks, and challenge the status quo. The importance of creativity in production has also been emphasized by Mumford et al. (2002), who argue that production teams with greater autonomy and access to resources are more likely to develop innovative solutions that enhance overall production performance.

However, while the theoretical link between production creativity and organizational success is well-established, empirical research on the specific mechanisms through which creativity in production affects sales performance is still limited. This study seeks to address this gap by exploring the relationship between creative production practices and sales performance at KDD.

Gap in the Literature: Although there is substantial research on creativity in production, there is a lack of studies that focus on how creativity in production processes specifically influences sales performance in the food and beverage industry. This highlights the need for empirical studies that investigate this relationship in industry-specific contexts.

2.4. Sales Performance

Sales performance is a key indicator of an organization's financial success, reflecting the effectiveness of its sales strategies, customer satisfaction, and market competitiveness (Schein, 2017). Sales performance is typically measured in terms of revenue growth, market share, and customer retention, and it is directly influenced by various factors, including product quality, pricing strategies, and customer service. However, recent studies have begun to explore the link between innovation, particularly in production processes, and improved sales outcomes (Israa, 2022).

Israa (2022) found that companies that invest in production creativity tend to experience higher sales growth due to their ability to differentiate their products from competitors. By introducing innovative production methods, companies can create products that better meet customer needs, leading to increased sales and market share. This is particularly true in industries like food and beverage, where product innovation can have a direct impact on consumer preferences and purchasing decisions.

Despite these findings, there remains a gap in the literature regarding the direct relationship between production creativity and sales performance. While studies have demonstrated that innovation can enhance product quality and customer satisfaction, few have examined how specific creative production practices translate into measurable sales outcomes. This study aims to fill this gap by investigating the link between production creativity and sales performance at KDD.

Gap in the Literature: Although the relationship between innovation and sales performance has been established in general terms, there is a need for more targeted research that examines how specific production creativity initiatives impact sales performance in the food and beverage industry.

2.5. The Relationship Between Management Practices, Production Creativity, and Sales Performance

The relationship between management practices, production creativity, and sales performance is a complex one. Research suggests that effective management practices create an environment conducive to innovation, which in turn leads to improvements in production processes and, ultimately, enhanced sales performance (Schein, 2017; Kanaan, 2022). However, while the theoretical framework supporting this relationship is strong, there is limited empirical research that tests these relationships within specific industries.

Management excellence, characterized by transformational leadership, clear communication, and strategic decision-making, can directly influence the level of creativity in production teams (Mumford et al., 2002). When management provides the necessary resources and removes barriers to creativity, production teams are more likely to innovate, leading to improvements in product quality, cost efficiency, and customer satisfaction. These improvements, in turn, can lead to increased sales performance as innovative products attract new customers and retain existing ones (Israa, 2022).

This study aims to build on existing literature by exploring the relationship between management excellence, production creativity, and sales performance within the context of KDD. By examining how management practices influence production creativity and how this creativity impacts sales performance, the study seeks to provide a more comprehensive understanding of these relationships in the food and beverage industry.

2.6. Conclusion

In conclusion, the existing literature provides valuable insights into the role of management practices and creativity in production on organizational performance. However, there are notable gaps, particularly in terms of industry-specific research. While general management theories emphasize the importance of fostering creativity, there is limited research on how these practices apply to specific industries such as food and beverage, and how production creativity directly influences sales performance. This study aims to fill these gaps by providing an empirical investigation of these relationships at KDD.

Chapter 3: Research Methodology

Introduction

This chapter outlines the research methodology employed to investigate the relationship between excellent management practices, production creativity, and sales performance at the Kuwaiti Danish Dairy Company (KDD). The chapter provides a comprehensive description of the research design, including the operational definitions for the research variables, population, and sampling methods. Additionally, it details the data collection techniques and the types of data used, alongside the statistical methods employed for analyzing the collected data.

The research methodology is critical to ensure that the study's objectives are met, and the results obtained are both reliable and valid (Creswell, 2014). This study adopts a **positivist philosophy**, which is appropriate for quantitative research as it focuses on objectively measuring variables and analyzing relationships between them (Saunders, Lewis, & Thornhill, 2019). The **deductive approach** is used, as it allows the research to test hypotheses derived from existing theories related to management excellence and creativity in production (Bryman, 2012).

In terms of research strategy, this study employs a **case study** approach, focusing on KDD, which enables an in-depth analysis of the company's management practices and their impact on creativity and sales performance. The **mono-method** is chosen for data collection, utilizing a questionnaire distributed to employees in the company. The study follows a **cross-sectional time horizon**, meaning that data is collected at a single point in time, allowing the research to assess the current state of the variables under investigation.

The data collection techniques used in this study include both primary and secondary data. **Primary data** is collected through structured questionnaires administered to KDD's employees, focusing on how management practices influence creativity and sales performance (Kanaan, 2022). **Secondary data** from existing literature, reports, and company documents is used to support the analysis (Israa, 2022).

3.2. Operational Definitions for Research Variables

Operational definitions are crucial in research as they specify how variables are measured, observed, or manipulated to ensure consistency and validity (Creswell, 2014). In this study, two primary variables are examined: management excellence (independent variable) and production creativity and sales performance (dependent variables).

3.2.1. Management Excellence (Independent Variable)

Management excellence refers to the practices and behaviors exhibited by KDD's leadership that promote innovation, efficiency, and employee engagement. For the purposes of this study, management excellence is operationally defined based on three key dimensions: leadership effectiveness, communication efficiency, and strategic decision-making. These dimensions will be measured using a Likert-scale questionnaire, where employees rate statements like "Management frequently encourages creative problem-solving" and "Leadership decisions are transparent and effective" (Kanaan, 2022).

3.2.2. Production Creativity (Dependent Variable)

Production creativity in this context refers to the ability of employees and managers at KDD to introduce new ideas, methods, or processes that improve production efficiency and product quality. It is measured by assessing the frequency and impact of creative initiatives in the production process. Operational definitions for this variable will include questions such as "How often are new production methods introduced?" and "To what extent do these changes enhance efficiency?" (Israa, 2022).

3.2.3. Sales Performance (Dependent Variable)

Sales performance is defined as the overall success of KDD's products in the market, measured through sales growth, customer retention, and product profitability. Employees and managers will evaluate the impact of production creativity on sales using questions such as "How has product innovation contributed to sales growth?" and "What percentage of sales growth can be attributed to creative production methods?" (Schein, 2017).

Research Design

The research design is the blueprint for how the study will be conducted,

guiding the collection, measurement, and analysis of data (Bryman, 2012). This study follows a **positivist philosophy**, a **deductive approach**, and employs a **case study** strategy, as outlined below.

3.3.1. Research Philosophy: Positivism

This research adopts a **positivist philosophy**, which is commonly used in quantitative research. Positivism emphasizes objective observation and measurement of variables, focusing on testing hypotheses derived from existing theories (Saunders, Lewis, & Thornhill, 2019). This approach is suitable for studying the relationship between management practices and production creativity and their effect on sales performance at KDD.

3.3.2. Research Approach: Deductive

The study employs a **deductive approach**, where hypotheses about the relationship between management excellence, production creativity, and sales performance are derived from established theories. The hypotheses are then tested through empirical data collection and analysis. This method ensures that the study builds on existing knowledge while providing new insights specific to KDD's context (Creswell, 2014).

3.3.3. Research Strategy: Case Study

A **case study** strategy is used, focusing on KDD as a single case within the Kuwaiti food and beverage industry. The case study approach allows for an in-depth exploration of how management practices influence creativity and sales within a specific organizational context. This method provides rich data on the unique challenges and strategies employed by KDD (Yin, 2018).

3.3.4. Research Choice: Mono-Method

This study uses a **mono-method** research design, relying solely on quantitative data collected through structured questionnaires. The mono-method approach allows for consistency in data collection, making it easier to analyze the relationships between the variables under study (Bryman, 2012).

3.3.5. Time Horizon: Cross-Sectional

The study is **cross-sectional**, meaning that data will be collected at a single point in time. This approach is effective for understanding the current

relationship between management practices, creativity, and sales performance without accounting for changes over time (Saunders et al., 2019).

3.3.6. Data Collection and Analysis Techniques

Data collection is conducted through structured questionnaires distributed to employees and managers at KDD. The questionnaire contains Likert-scale questions designed to measure the key variables. Data analysis will be conducted using the **Statistical Package for the Social Sciences (SPSS)** software, focusing on descriptive statistics, hypothesis testing, and correlation analysis (Israa, 2022).

3.4. Research Population & Sampling Methods

The research population and sampling methods are critical for ensuring that the data collected is representative and reliable. This section defines the population from which the sample is drawn and outlines the sampling methods used to select participants.

3.4.1. Research Population

The **research population** for this study consists of employees and managers working at the Kuwaiti Danish Dairy Company (KDD). The population includes individuals from various levels of the organization, such as production staff, middle management, and senior executives. The inclusion of participants from different departments and hierarchical levels ensures that the data reflects a broad understanding of how management practices affect production creativity and sales performance. The total population of employees at KDD is approximately **200**, distributed across various functional areas, including production, operations, sales, and management.

3.4.2. Research Sample

To conduct the research, a **sample** of KDD employees is selected from the research population. The sample size is determined based on Krejcie and Morgan's (1970) sample size formula, which suggests that for a population of 200, a sample size of **132** participants is appropriate to ensure representativeness. The sample includes employees from different departments to capture the diversity of experiences and perspectives related to management practices, production creativity, and sales performance.

3.4.3. Sampling Method & Techniques

A **probability sampling method** is employed, specifically **simple random sampling**. This method is chosen to ensure that every employee in the research population has an equal chance of being selected for the study, reducing selection bias and improving the generalizability of the findings (Bryman, 2012). Simple random sampling is particularly appropriate in this context, as it allows for a diverse and representative sample of KDD employees from various departments and levels of responsibility.

3.5. Data Collection Methods

Data collection is a critical step in gathering the information necessary to test the hypotheses and answer the research questions. This section describes the tools and procedures used to collect both primary and secondary data.

3.5.1. Primary Data Collection

The primary data for this study is collected using **structured questionnaires** administered to employees at KDD. Questionnaires are widely used in quantitative research for their ability to gather large amounts of data efficiently (Creswell, 2014). The questionnaire is designed to measure the independent variable (management excellence) and the dependent variables (production creativity and sales performance).

Management Excellence: This section of the questionnaire includes items related to leadership, communication, and decision-making. Respondents are asked to rate their agreement with statements such as "Management actively promotes innovation within the company" and "Leadership effectively communicates the company's vision and goals" (Kanaan, 2022).

Production Creativity: The questionnaire includes questions on the frequency and effectiveness of creative initiatives in the production process, such as "New production techniques are regularly introduced to improve efficiency" and "Creativity in production is encouraged by management" (Israa, 2022).

Sales Performance: The sales performance section assesses the impact of production creativity on sales outcomes. Questions include "Innovative production

techniques have led to a noticeable increase in sales" and "Creative product designs contribute to higher customer satisfaction" (Schein, 2017).

The questionnaire uses a **Likert scale** ranging from 1 (strongly disagree) to 5 (strongly agree), allowing for a standardized measure of the respondents' perceptions of management practices and their impact on production and sales.

3.5.2. Secondary Data Collection

In addition to primary data, **secondary data** is used to supplement the analysis. Secondary data includes reports, academic articles, and internal documents from KDD. These sources provide additional context and help validate the findings from the primary data collection. Secondary data is particularly useful for understanding broader trends in management practices and their impact on organizational performance (Saunders, Lewis, & Thornhill, 2019).

3.5.3. Data Collection Procedure

The questionnaire is distributed to KDD employees via email, with respondents given a period of two weeks to complete it. The anonymity of respondents is maintained to encourage honest and unbiased responses. Follow-up reminders are sent to increase response rates. Once the data is collected, it is analyzed using statistical software to identify trends and relationships between the variables.

3.6. Types of Data

Data collection in research is often classified into two categories: primary and secondary data. Both types are used in this study to ensure a comprehensive understanding of the relationship between management excellence, production creativity, and sales performance at the Kuwaiti Danish Dairy Company (KDD).

3.6.1. Primary Data

Primary data refers to information that is collected directly from the source through first-hand observations or tools such as surveys, interviews, or experiments (Creswell, 2014). In this study, primary data is collected through structured questionnaires distributed to KDD employees. The questionnaire includes questions designed to measure the independent variable (management

excellence) and the dependent variables (production creativity and sales performance). This approach allows for real-time data collection directly from individuals working within KDD, ensuring the data is both current and relevant.

The primary data is collected using a Likert scale questionnaire, which includes statements that respondents rate from 1 (strongly disagree) to 5 (strongly agree). The primary data serves as the main source of empirical evidence for testing the research hypotheses and answering the research questions (Kanaan, 2022).

3.6.2. Secondary Data

Secondary data refers to information that has already been collected and recorded by other researchers or organizations. This type of data is often used to support or validate primary data (Saunders, Lewis, & Thornhill, 2019). In this study, secondary data is obtained from academic articles, business reports, internal company documents, and industry publications related to management practices, production creativity, and sales performance. This data helps to contextualize the findings from the primary data, providing a broader understanding of the topic within the food and beverage industry.

Secondary data is especially useful for validating the trends and relationships observed in the primary data and for ensuring that the research findings are consistent with existing literature (Israa, 2022).

3.7. Data Analysis Methods & Procedures

Once the data is collected, it is critical to analyze it systematically to draw meaningful conclusions and test the research hypotheses. In this study, the data analysis process involves descriptive statistics, hypothesis testing, and correlation analysis using **SPSS** (Statistical Package for the Social Sciences) software (Bryman, 2012).

3.7.1. Descriptive Statistics

The first step in data analysis is to conduct **descriptive statistics**, which summarize the characteristics of the research sample. This includes measures such as mean, standard deviation, and frequency distribution for each variable. Descriptive statistics provide insights into the central tendencies and variability in responses related to management practices, production creativity, and sales

performance. This analysis helps in understanding the general trends within the sample population (Saunders et al., 2019).

3.7.2. Hypothesis Testing

To test the hypotheses, the study employs **inferential statistical methods**, such as **correlation** and **regression analysis**. These tests help determine whether there is a statistically significant relationship between management excellence and production creativity, and between production creativity and sales performance.

- **Correlation Analysis:** This test measures the strength and direction of the relationship between variables. For example, it will show whether higher levels of management excellence are associated with increased production creativity (Kanaan, 2022).
- **Regression Analysis:** This test is used to predict the impact of the independent variable (management excellence) on the dependent variables (production creativity and sales performance). It allows for the evaluation of how changes in management practices influence outcomes related to creativity and sales (Creswell, 2014).

3.7.3. Validity and Reliability Tests

To ensure that the data collected is both accurate and consistent, the study conducts **validity** and **reliability** tests. **Validity** is assessed using **exploratory factor analysis (EFA)** to confirm that the questionnaire items effectively measure the intended variables. **Reliability** is tested using **Cronbach's Alpha** to ensure consistency in the responses, with a score of 0.7 or higher indicating acceptable reliability (Bryman, 2012).

3.7.4. Data Interpretation

After running the statistical tests, the results are interpreted to answer the research questions and confirm or reject the hypotheses. The findings are discussed in relation to the existing literature, identifying any patterns, similarities, or deviations from previous research. This process is crucial for drawing conclusions about the impact of management excellence on production creativity and sales performance at KDD.

Conclusion

In conclusion, this chapter outlines the research methodology used to investigate the relationship between management excellence, production creativity, and sales performance at KDD. A combination of primary and secondary data is collected to provide a comprehensive understanding of the variables. The sampling method ensures that the data is representative, and the use of SPSS for data analysis ensures the accuracy and reliability of the findings. Descriptive statistics, hypothesis testing, and validity and reliability tests are employed to analyze the data and draw meaningful conclusions. The next chapter will present the results of the data analysis and discuss the implications for both theory and practice.

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Appendix

The following questionnaire will be used to assess the perceptions of management practices, production creativity, and sales performance among employees at KDD.

Sample Questions:

- **Management Practices:**

1. On a scale of 1 to 5, how effective is your current management in promoting innovative ideas within production processes?
2. How often does the management encourage team collaboration for creative solutions in production?

- **Production Creativity:**

1. How frequently does your team implement new methods or tools to improve production efficiency?
2. Rate the level of creativity involved in the production processes on a scale of 1 to 5.

- **Sales Performance:**

1. Over the last two years, how would you rate the correlation between innovative production techniques and sales growth?
2. To what extent do you believe production creativity directly affects product sales at KDD?

- **Table of Research Instruments**

Variable	Research Instrument	Measurement Scale
Management Practices	Structured Questionnaire (Likert Scale 1-5)	Frequency of management encouragement for creativity
Production Creativity	Survey Questions (Likert Scale 1-5)	Frequency of creative solutions in production

Variable	Research Instrument	Measurement Scale
Sales Performance	Company Sales Data & Employee Feedback	Year-over-year sales growth, perception of creativity's impact on sales