# FROZEN DELIGHTS LTD. DATABASE REPORT

Power BI report



# **CONTENTS**

	FROZ	ZEN DELIGHTS LTD. DATABASE REPORT	1
1	BUSI	NESS DESCRIPTION	3
	1.1	About the company and it's activity field	3
	1.2	business process	3
	1.3	purpose of the report	3
	1.4	end user of the report	3
		business questions and problems.	
2	BUSI	NESS LAYER 3NF	4
		NESS LAYER DIMENSIONAL MODEL	
4	LOG	CAL SCHEME	4
5	DATA	A FLOW	4
Ś	FΔC	T TABLE PARTITIONING STRATEGY	4

# 1 BUSINESS DESCRIPTION

# 1.1 ABOUT THE COMPANY AND IT'S ACTIVITY FIELD



Frozen Delights Ltd. is a global leader in the frozen food retailers, offering a wide range of high-quality frozen food products to customers worldwide. With a strong emphasis on quality, innovation, and customer satisfaction, Frozen Delights has established itself as a trusted brand in the frozen food market.

Frozen Delights specializes in the production and distribution of frozen food products, including meat-based, plant-based, and

seafood items. Products cater to diverse tastes and dietary preferences, providing convenient and delicious meal solutions for consumers around the globe.

## 1.2 BUSINESS PROCESS

Our primary business process involves the sale and distribution of frozen food products through both online sales and sales in local retail stores. We track sales transactions, product inventory, customer information, and employee performance to ensure efficient operations and maximize customer satisfaction.

### 1.3 PURPOSE OF THE REPORT

The purpose of our report is to provide comprehensive insights into our global sales and revenue distribution by analyzing key metrics such as product sales, sale costs by product categories, and geographic regions. By leveraging data from our data warehouse, the aim is to gain a deeper understanding of our business performance and identify opportunities for growth and improvement.

#### 1.4 END USER OF THE REPORT

The report is designed to serve various stakeholders within our organization, including executives, sales managers, marketing teams. Each user group will benefit from tailored insights and analysis relevant to their respective roles and responsibilities.

# 1.5 BUSINESS QUESTIONS AND PROBLEMS

- 1. Which products generate the highest profits, and how do their sales performances compare across different regions and sales channels?
- 2. What is the distribution of sales by product category and subcategory, and are there any emerging trends or opportunities within specific categories?
- 3. How do sales patterns vary between online orders and in-store purchases, and what factors influence customer preferences across different sales channels?
- 4. What is the distribution of different product categories on geographical regions or territories?
- 5. Is there a correlation between product pricing and sales volume?

By addressing these business questions and leveraging insights from our data warehouse, Frozen Delights Ltd. aims to enhance decision-making processes, drive business growth, and maintain a competitive edge in the dynamic frozen food industry.

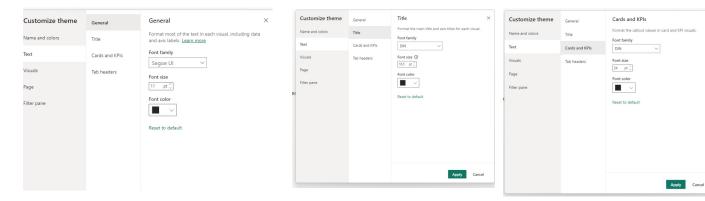
# **2 REPORT STYLE**

# 2.1 COLOR

I used one of Power BI custom theme: Twilight

#### 2.2 LETTER SIZE

I used the following letter sizes: 11 pt for body text and 24 or 16.5 pt for titles:



# 3 STRUCTURE OF THE REPORT

# 3.1 PAGE 1: FROZEN DELIGHTS LTD. SALES ANALYSIS

Visual presentation of the following key metrics:

- Total revenue
- Profits
- Sales volume
- Average selling price

Sales performance by product categories and subcategories using visualizations and table showing top performing regions.

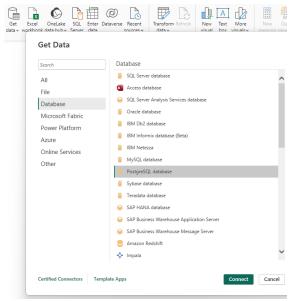
# 3.2 PAGE 2: SALES ANALYSIS BY CHANNELS AND PRODUCTS

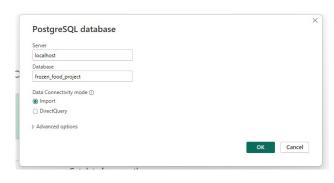
- Comparison of online sales versus and store purchases.
- Line chart displaying average profit on product unit prices.

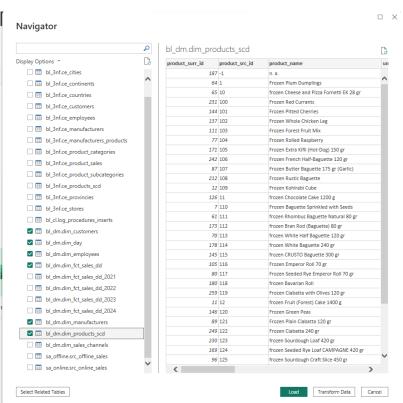
# **4 REPORT CREATION PROCESS**

To load datas from PostgreSQL database I selected in PostgreSQL option in Power BI, added "localhost" as server name, and the name of the database (frozen\_food\_project), then selected dimensional tables to load:

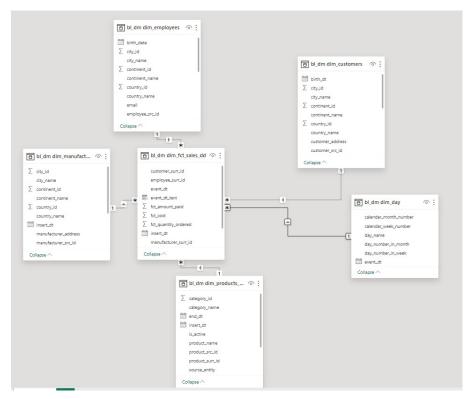
4



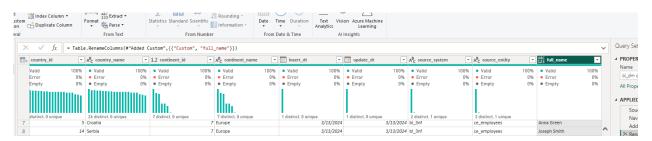




Power BI managed to create necessary and intended connections between tables, and got a star scema:



Added full\_name columns to employee and customers tables:



Added a calculated column in power query, named "profit":



I added two hidden pages additionally to the FROZEN DELIGHTS LTD. SALES ANALYSIS and **SALES ANALYSIS BY CHANNELS** pages:

- PROFIT TREND AND TOP PRODUCTS as tooltip,
- PRODUCTS TOTAL PROFITS as drill through page.

I shared the final version to the Power BI services:

