

French bakery sales (2021-2022)

Personal data analysis project

MySQL + Tableau + Python

1. Description

The dataset contains major information regarding sales of various types of pastry of one French bakery shop, including date, time, product name, quantity, price per unit;

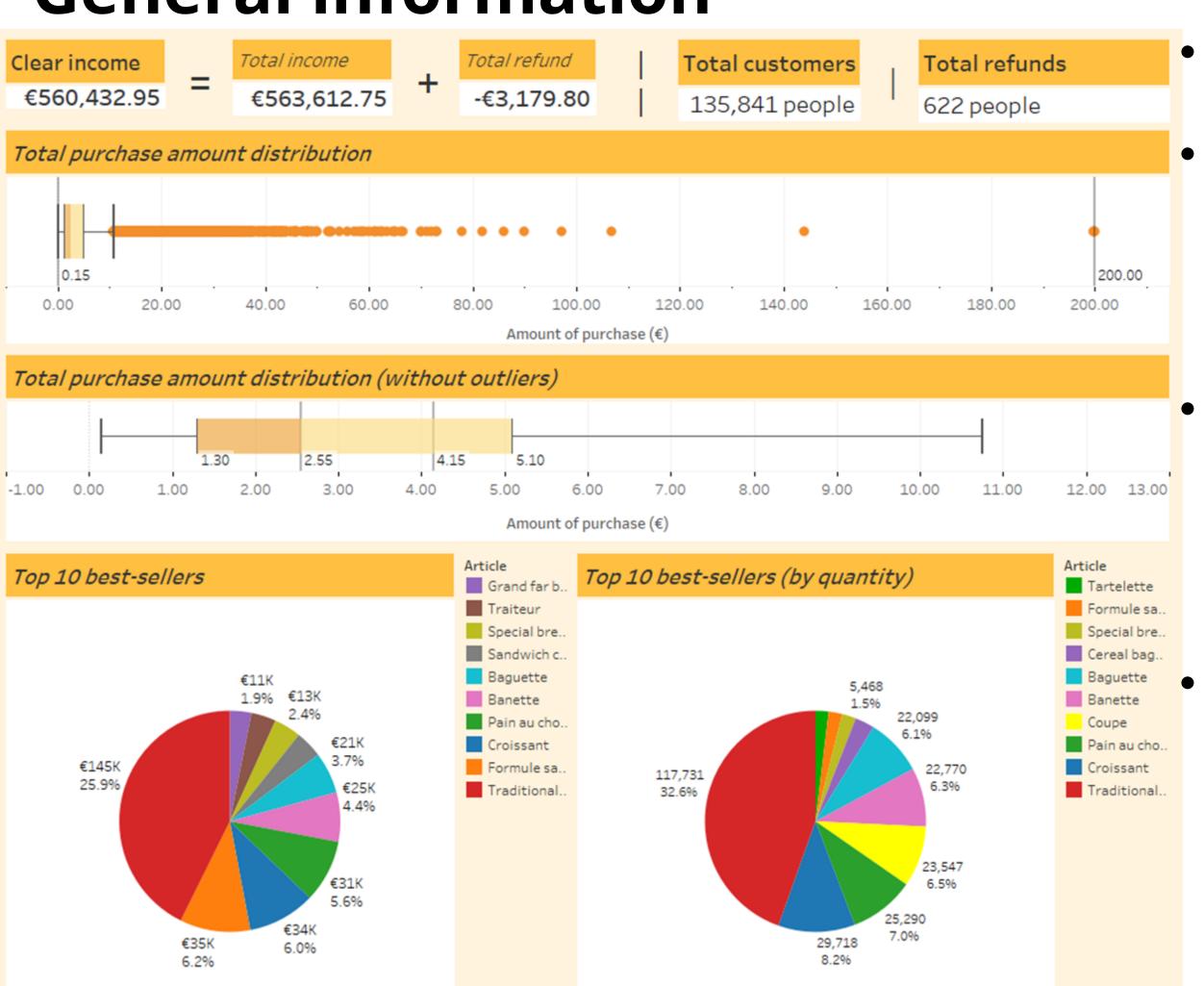
2. Objectives

- 1. Upload the raw data on MySQL server using Python;*
- 2. Perform data *normalisation*, quantify **additional information**, if necessary;**
- 3. *Visualise* the data using **Tableau**.

^{*}Python script for uploading raw data on MySQL server;

^{**}MySQL data processing script

General information



- Total income : €560.5k
 Total refunds: €3k
- Purchase range:

€0.15 - €200

IQR: €1.3 - €5.1

Median: **€**2.55

Mean: €4.15

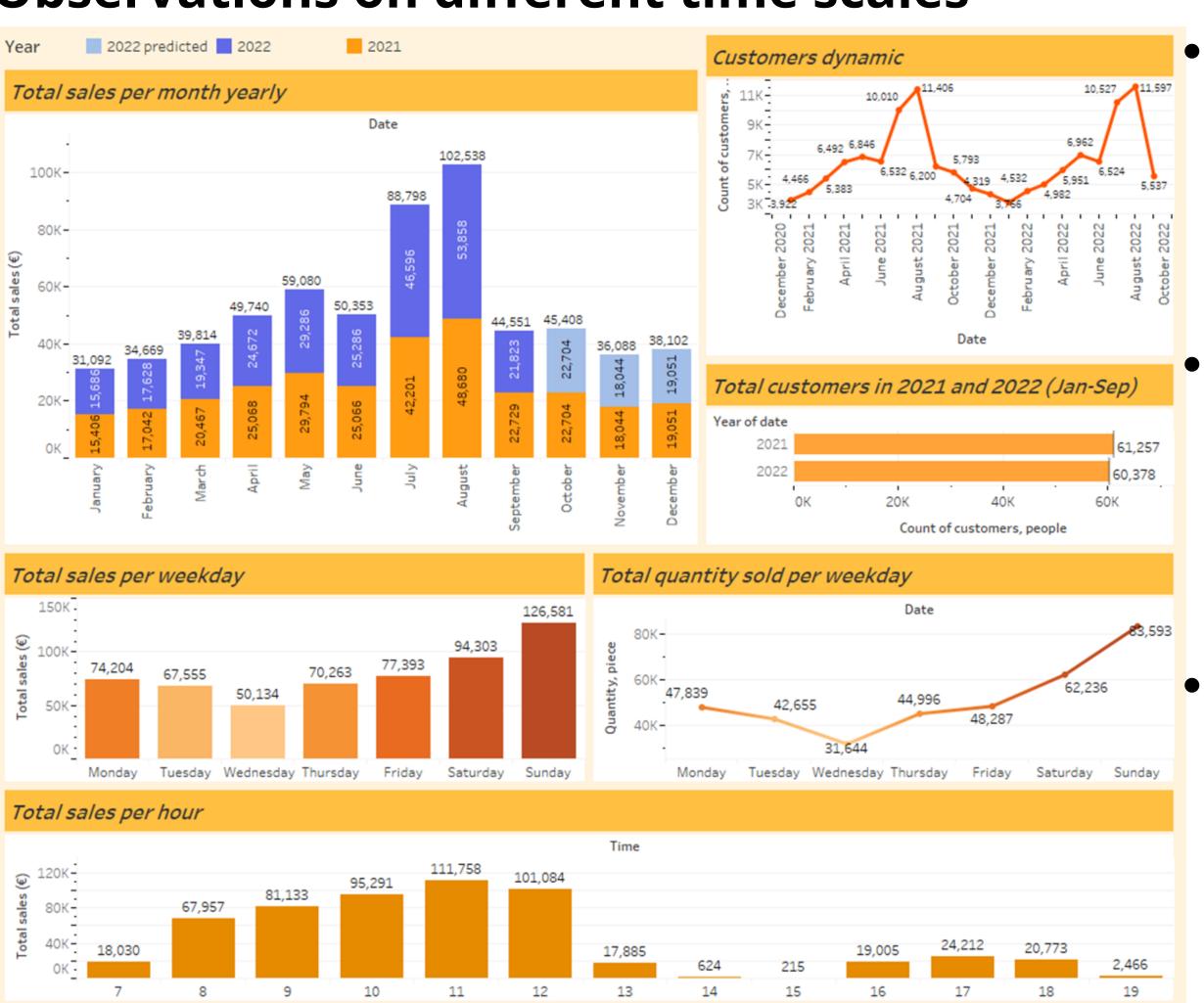
- Top sold products:
 - 1.Traditional Baguette: 25%
 - 2.Formule sandwich: 6.2%
 - 3.Croissant: 6.0%

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- Top sold products (by quantity):
 - 1.Traditional Baguette: 32.6%
 - 2.Croissant: 8.2%
 - 3.Pain au chocolat: 7.0%

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Observations on different time scales



 Monthly trend of both sales and customers number:

Jan-Jun: gradual growth

Jul-Aug: drastic spike

Sep-Dec: decline, stagnation

Weekday trend of sales - parabolic:

Mon-Wed: gradual decline

Thu-Sat: continuous rise

Sun&Sat: highest sales

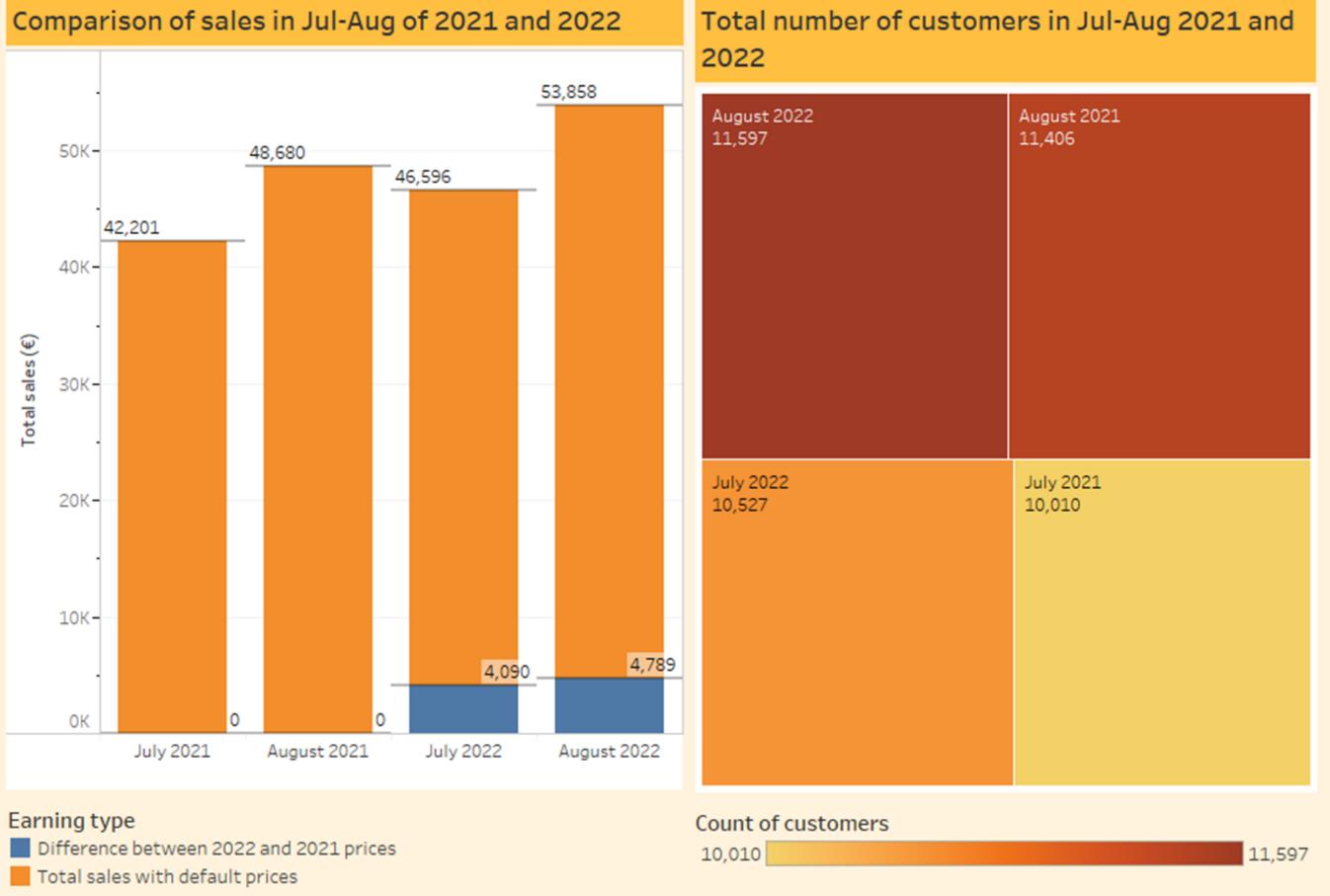
Hourly trend:

7-11: continuous growth

10-12: hot hours

13-19: drastic drop (>3 times)

Sales composition comparison



- July and August account for the largest amount of total sales;
- Total sales increased in 2022, but the number of customers did not change significantly
- There had been a prise rise in 2022
- Due to the price rise the shop increased total sales by about €9k in July and August