

Café Alegria

The coffee shop chain "Café Alegria" are commercial solidarity establishments whose main objective is to employ and train people with intellectual and developmental difficulties. This solidarity project began in 2017 and is a multinational project with cafés in several European countries: Portugal, Spain, France, Belgium, and Germany. In each Café Alegria several employees work who perform the various functions necessary to run a café: manager, waiters and cooks. If the Café shops are close together, the employees can work in more than one Café according to their daily needs. In Cafés Alegria, besides coffee, other products are sold such as tea, soft drinks, water, homemade cakes, sandwiches, fruit, etc. Cafés Alegria has an information system to manage the sales of all the commercial establishments. Below you will find a subset of the sales operational system relational model on which you can perform ETL operations to load Data Marts

Cafe (idCafe, name, address, Phone_num, mobile_num, *idPostalCode*)

PostalCode (idPostalCode, postalCode, Locality, *idCountry*)

Country (codCountry, name)

Employee (numId, name, address, mobile, *idPostalCode*, *idCategoryE*)

WorkIn (*numId*, *idCafe*, day)

EmployeeCategory (idCategoryE, name)

Product (idProduct, name, acquisitionPrice, salesPrice, *idCategoryP*)

ProductCategory (idCategoryP, name)

Client (NIF, address, mobile)

Sales (idSales, date, salesValue, *idCafe*, *NIF*)

SalesDetail (*idProduct*, *idSales*, quantity)

Note:

- Primary Keys are underlined
- Foreign Keys are in Italic

Based on the relational model of the case presented, design the star model for a Data Mart intended to analyse the sales results of Café Alegria.