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|  | Data Analytics |

Economic Activities - Portugal

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**Introduction**

Business Economic Activities in Portugal

Goal: Create a data set to future analyze of the evolution of the economy in factors of production, efficiency and international, and they sub factors.

Plan: Chouse three subfactors form each group of factors, that are more important for the economy of the country.

* Retrieve data from source
* Clean data
* Create database in SQL
* Create queries in SQL
* Analyze queries

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| **Production Activities** | **Efficiency and Return** | **Internationalization** |
| Export | Apparent labor productivity | Degree of exposure to international trade |
| Import | Investment rate | Export intensity |
| Production | Degree of production | Import penetration rate |

**Data and data sources**

Data source is PORDATA (<https://www.pordata.pt/>), the Database of Contemporary Portugal, organized and developed by the Francisco Manuel dos Santos Foundation, was created in 2009.

The collection, compilation, systematization and dissemination of data on multiple areas of society, for Portugal and its municipalities, and for the European countries. The reported statistics derive from official and certified sources, with data production skills in the respective areas.

Consists in collecting and organizing the data available, making it as clear and accessible as possible. Also important work of contextualized information, the so-called "metadata", as an inextricable part of the data, enabling its adequate interpretation, to be providing a public service to the Portuguese society, free of charge and without any cost to the user.

PORDATA retrieves information from over sixty official agencies, with particular emphasis to Statistics Portugal, cooperate with PORDATA.

**Data collection**

Retrieve the excel files from PRODATA, of three subfactors form each group of factors, that are more important for the economy of the country.

**Data cleaning and Exploratory data analysis**

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| C03 | Products of agriculture, forestry and fishing |
| C04 | Mining and quarrying |
| C05 | Food products, beverages and tobacco products |
| C06 | Textiles, wearing apparel and leather products |
| C07 | Wood and paper products, and printing services |
| C08 | Coke and refined petroleum products |
| C09 | Chemicals and chemical products |
| C10 | Basic pharmaceutical products and pharmaceutical preparations |
| C11 | Rubber and plastics products, and other non-metallic mineral products |
| C12 | Basic metals and fabricated metal products, except machinery and equipment |
| C13 | Computer, electronic and optical products |
| C14 | Electrical equipment |
| C15 | Machinery and equipment n.e.c. |
| C16 | Transport equipment |
| C17 | Furniture, other manufactured goods, repair and installation services of machinery and equipment |
| C18 | Electricity, gas, steam and air-conditioning |
| C19 | Water supply, sewerage, waste management and remediation services |
| C20 | Constructions and construction works |
| C21 | Wholesale and retail trade services, repair services of motor vehicles and motorcycles |
| C22 | Transportation and storage services |
| C23 | Accommodation and food services |
| C24 | Publishing, audiovisual and broadcasting services |
| C25 | Telecommunications services |
| C26 | Computer programming, consultancy and related services, information services |
| C27 | Financial and insurance services |
| C28 | Real estate services |
| C29 | Legal and accounting services, services of head offices, management consulting services, architectural and engineering services, technical testing and analysis services |
| C30 | Scientific research and development services |
| C31 | Advertising and market research services, other professional, scientific and technical services, veterinary services |
| C32 | Administrative and support services |
| C33 | Public administration and defence services, compulsory social security services |
| C34 | Education services |
| C35 | Human health services |
| C36 | Social work services |
| C37 | Arts, entertainment and recreation services |
| C38 | Other services |
| C39 | Services of households as employers, undifferentiated goods and services produced by households for own use |

**Entities. ERD**