**Omar Mheid (ETL Project) – Jordan Export & Import of Food Products**

**Project Requirements:**

Use 2 or more sources of data for extraction, transformation and loading of data into a database or tables/collections.

**Extraction of Data:**

I extracted both sources of data in excel format from the World Integrated Trade Solution. The first source of data shows the import activities for Jordan in the year 2018 and the second source of data shows the export activities for Jordan in the year 2018. Both data sources contain information about the import and export of Food Products for Jordan with respect to the partnering countries.

**Data Source:** <https://wits.worldbank.org/CountryProfile/en/Country/JOR/Year/LTST/TradeFlow/Export/Partner/by-country/Product/16-24_FoodProd>

<https://wits.worldbank.org/CountryProfile/en/Country/JOR/Year/LTST/TradeFlow/Import/Partner/by-country/Product/16-24_FoodProd>

**Data Transformation:**

I manipulated both sources of data to include the partnering country, year, trade flow, product group, import/export thousands and import/export share. In addition, I sorted both data sources by import/export in thousands by descending order, so in conclusion the data represented the most countries Jordan had trade activities with by dollar value.

The data shows us that when importing Jordan imports the majority of its Food Products from Saudi Arabia and Argentina, moreover when exporting Jordan exports most its locally produced products to Iraq and Saudi Arabia. Making Saudi Arabia a crucial country for Jordan when trading Food Products.

**Loading Data:**

When the loading the data, I first loaded the data into a Pandas Data Frame where I conducted the cleaning and transforming of the data.

* Then I connected the Database “ETL\_Project” and loaded the merged Data Frame “Jordan\_export\_import”.

engine = create\_engine("postgres://postgres:postgres@localhost:5432/ETL\_Project")

conn = engine.connect()

* Check that the table has been loaded to postgres SQL Database:

jordan\_export\_import.to\_sql(name = "jordan\_export\_import", con = engine, if\_exists = "append", index = True)

**Images**

