





Idea:

Inputs:

- Sales (Daily)
- Imported Products (Daily)
- Existing in Tanks (Daily)
- Trips (Daily)

Outputs:

- Sales (Daily & Monthly)
- Imported Products (Daily & Monthly)
- Withdrawals (Daily & Monthly)
- Trips (Daily & Monthly)
- Supply plan (Daily)

Tables & relations:

Tables:

- Agents (AgentID, Agent)
- Existing (ExistingID, Station_ProductID, ExistingAmount, DateID)
- Companies (CompanyID, Company)
- Dates (DateID, Day, Month, Year)
- Distances (DistanceID, Stations_WarehouseID, Distance)
- Drivers (DriverID, DriverFirstName, DriverLastName, DriverPhone)
- Importations (ImportationID, Station_WarehouseID, ImportedAmount, DateID)
- Products (ProductID, Product)
- Quota (QuotaID, Warehouse_ProductID, Quota, Month)
- Sales (SaleID, Station ProductID, SalesAmount, DateID)
- Sectors (SectorID, Sector)
- Stations (StationID, Station, AgentID)
- Tanks (TankID, TankVolume)
- **Trips** (TripID, DriverID, VehicleID, DistanceID, DateID)
- Users (UserID, UserFirstName, UserLastName, Password, Phone)
- Vehicles (VehicleID, VehicleCode, VehiclePlate, VehicleCard, VehiclePhone, TrailerPlate)
- Warehouses (WarehouseID, Warehouse, CompanyID)
- Withdrawals (WithdrawallD, QuotalD, StationID, WithdrawalAmount, DateID)

Relations:

- Stations Sectors: (Station_SectorID, StationID, SectorID)
- Warehouses Sectors: (Warehouse SectorID, WarehouseID, SectorID)
- Stations Products: (Station_ProductID, StationID, ProductID)
- Warehouses Products: (Warehouse ProductID, WarehouseID, ProductID)
- Stations Warehouses: (Stations_WarehouseID, StationID, WarehouseID)
- Tanks (Stations Products): (TankID, Station_ProductID)





Reports / Statistics:

• Daily reports:

• Withdrawals:

Represents the amount of withdrawal of each product from each Warehouse

Sales

Represents the amount of sales of each product of each station

• Imported products:

Represents the total amount of imported product to each station from each Warehouse

• Supply plan:

Represents the needs of each product according to the average consumption of a specific station and the tank volume of the same product

Monthly reports:

• Total withdrawals from Warehouses:

Represents the total amount of withdrawal of each product from each Warehouse

• Total stations' sales:

Represents the total amount of sales of each product at each station

• Total Imported products in stations:

Represents the total amount of imported product to each station from each Warehouse

Special reports:

Average Imported product:

Represents the average of each imported product to each station

EoM (End of Month) Stations' needs:

Represents each station's needs for each product by multiplying the average of a station's needs and the remaining days in the current month

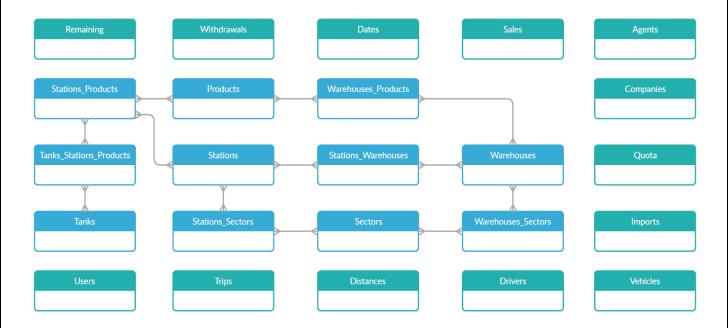
Warehouses Remaining:

Represents the difference between the quota specified and the current withdrawals from each Warehouse





Schema:



Pages:

- 1. Login page (Authentication -> Login)
- Y. Home page (Unspecified)
- ". Sectors list page (Academy)
- 4. Stations list page (Table)
- Agents list page (Academy)
- Tanks list page (Academy)
- **V.** Companies list page (Academy)
- **∧.** Warehouses list page (Academy)
- Products list page (Academy)
- 1. Vehicles list page (Table)
- \(\) . Drivers list page (Academy)
- **۱۲. Distances list page (Table)**
- ۱۳. Trips list page (Unspecified)
- ۱٤. Users list page (Unspecified)
- 1°. Sectors management page (Form)
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- ۱٦. Station management page (Form)
- Y. Agents management page (Academy)
- ۱۸. Tanks management page (Form)
- 14. Company management page (Form)
- Y. Warehouse management page (Form)
- Y1. Product management page (Form)
- YY. Vehicle management page (Form)
- TT. Driver management page (Form)
- ۲٤. Distance management page (Form)
- Yo. Trips management page (Unspecified)





- User management page (Unspecified)
- YV. Withdrawals report page (Daily / Monthly) (Table)
- YA. Sales report page (Daily / Monthly) (Table)
- Y9. Imported products report page (Daily / Monthly) (Table)
- **⋄.** Supply plan report page (Table)
- *\. Average Imported product report page (Table)
- TY. EoM (End of Month) Stations' needs report page (Table)
- ۳۳. Warehouses Remaining report page (Table)

Software & Hardware requirements:

Software:

- Languages
 - HTML
 - CSS
 - Typescript
 - Java
 - JPQL

Tools:

- VScode editor
- IntelliJ IDE
- SQL server / Mongo database
- Postman

Others:

- Node.js
- Angular
- Apache Maven package manager
- Java EE

Hardware:

- Server
- PC
- Internet