**DESCRIPTION OF PROBLEM:**

vehicle dealer needs to pay attention of his business branches’ management and to be aware of cars, motorcycles, their specifications and inventory with details of customers that are getting bigger with time and to keep track of rentals and sales with studying the market trends.

**REQUIREMENT COLLECTION:**

the business owner has many branches distributed in different cities nationally, each one has Id, one location, landline phone, email and need to know the following: -

**1.customer details:**

(National ID, fname, mname, lname,

{home, work address}: building no. and name, street no. and name, postal code, city, state.

, phone number {up to 3 numbers})

**2.company suppliers:**

(company code, company name, address, email address, supply chain manager phone number (only one))

**3.cars and motorcycles:** state(sold or in stock),

Purpose {for rent or sale} VIN, brand, model, year, engine type, color, horsepower, torque, fuel efficiency, transmission, drivetrain (car: front-wheel, rear-wheel, all-wheel----motorcycles: chain drive, belt drive, shaft drive)

**4.tansportation companies:**

(transcompany code, no of trucks, landline number, email)

**5.salesman,manager, workers:**

((National ID, fname, mname, lname,

home: building no. and name, street no. and name, postal code, city, state, phone number (only one))

**6.reciept:**(reference no., date, method of payment {cash, card}, payment rate{lump sum, installments})

**RULES:**

**1.**each branch can rent or sell several cars for one customer.

**2.**multiple suppliers can deal with the branch.

**3.**salesman can sell for several customers several vehicles or make rental contracts for them.

**4.**rentals must be finite and not more than 20 days for each contract and for one customer at a time.

**5.**the branch gives a warranty on sold products {6 years for cars, 3 years for motorcycles}

**6.**dealership must deal with at least one transportation company and 3 at most.

**7.**each sale must have a distinct receipt.

**8**.each employee must work in 1 branch only.

**9.**no person works two jobs at the same time

**10**.we want to keep track of each salesman sales monthly.