

## ENSIA 2023/2024

### DATABASES ASSIGNMENT

Let's assume that the tables from the previous labs are created and filled.

Write SQL statements to give the following:

1. The number of customers who are over 60 years old
2. The information details of the customers whose last name starts with the letter "T"
3. The number of female customers who own a vehicle from the year 1992
4. The name and category of the five highest-paid employees
5. The average salary for the employees of category "Assistant", same for "Mechanic"
6. The budget the administrator needs to pay all the employees
7. The vehicles whose owners have provided a private phone number
8. The brand and model of the vehicle that spent the longest period in the garage
9. The name of the employee of the year (employee who made the most interventions)
10. The three vehicle brands that have the highest number of interventions.
11. The administrator wants to have the total number of interventions for each employee. To do this, the administrator adds an attribute: **TOTAL\_INTERVENTIONS** in the employee table.
  - Add the attribute **TOTAL\_INTERVENTIONS** in the employee table.
  - Create a **TOTAL\_INTERVENTIONS\_TRIGGER** that updates the **TOTAL\_INTERVENTIONS** attribute.
12. The administrator wants to save for each month of the year the total earnings of all the interventions. Each time an intervention is added in a month, either it is the first intervention in that month, so a row is added to the table **Earning (MONTH, YEAR, TOTAL\_earnings)**, or it is not the first intervention in that month, so the attribute **TOTAL\_earnings** is updated. Create a corresponding trigger.