# BDD Advanced : Test of Tuesday 21th March 2023 - Afternoon

We have a table containing NGO associations. The city of an NGO is where its headquarters reside. An association may launch several actions.

An action can be of type "human rights", "consumer protection", "environmental", "health", and is done in a city. An action launched by an NGO has a certain duration in days.

| Here is our data model: | – NGO (<u>nid: integer</u>, aname: string, city: string)<br>– Launch (<u>nid: integer, aid: integer</u>, duration: int, start_date: datetime)<br>– Action (<u>aid: integer</u>, aname: string, type: string, city: string) |
|---|---|

**1: Draw the Entity Diagram associated (2 points):**

**2 - SQL query: Find all NGOs in "Paris"that have launched an "environmental" action (2 points - No NATURAL JOIN allowed !!):**

**3 - SQL: Display the average duration of actions done by each NGO and in the same query display only NGO that have launched actions with a duration of 10 days minimum (4 points):**

**4 - SQL: Find NGO that have launched an environmental game and also a Health one (4points):**

**5 - SQL query: Display the total number of actions launched per type of actions (4points):**

**6 - SQL query: Display NGOs that have launched all of the Actions (Division query) (4points):**