



INSTITUTO SUPERIOR TÉCNICO

## SIBD PROJECT - PART 1

TURN0: SIBD-2PB08

GRUPO: 21

número	nome	contribuição (%)	horas gastas
93190	Tiago Mendes	33	10
94037	Keval Visnú Ramnical	33	10
94196	Gonçalo Mesquita	33	10

## Schema

The choices of data types were made based on what is conventionalized and what made more sense, when no convention was found. However, the following points should be highlighted for further clarification:

- Country's flag – For the country's flag attribute, it was used the name of the flag's image file saved in a pc.
- Name – Country names are stored in their English designation .
- Boat length – The boat length is represented as NUMERIC(1) since a lot of boats have decimals lengths.
- Registration year - The registration year of the boat is claimed as NUMERIC(4) since we only need the year that the boat was registered in.

## Populate

Relatively to populate the dataset, the goal was to produce an expressive dataset. Such dataset had to enable a diverse set of combinations. Despite the need for an expressive dataset, the group had to make sure the same dataset was not too complex. A complex dataset could rise difficulties when validating the results. Therefore the dataset produced was simple and expressive at the same time.

## Queries

The aim is develop simple queries. Although, in order to guarantee that the data base was well created, more complex queries have been written besides the ones presented on the report. Examples of these situations are the following ones:

- The name of all boats that have been reserved for a trip that starts in 'Spain' and ends in 'Portugal'.
- The boat name from boats that sail internationally.
- Name of the sailors order by their expired Sailing Certification.