Task 1:

Our chosen sport to include in the SportsDB was swimming. Swimming is an individual sport where each swimmer competes for the fastest time in a race of a certain stroke over a certain distance. While swimming is an individual sport a swimmer can enter an event as part of a team where they will then earn points for their team based on their individual performance in the races of their choice. Swimming for a team in an event does not change any aspects of an event other than that they will earn points for team.

Every Event will offer many individual races, each race has an associated distance (50m, 100m, 200m, …) and stroke type (Freestyle, Backstroke, Breaststroke, Butterfly, …). A race is won by the swimmer who finishes the race in the quickest time, while each swimmer will earn points for their team, if they are part of one, based on their position in the race.

If there are more swimmers participating in a race than lanes in the pool then the race will be divided into heats, however only the time in each heat matters and coming first in your heat makes no difference as positions in races are based on time for the whole race not individual heats

A swimmer will be disqualified from a race if they:

- Perform a false start – when a swimmer dives/starts swimming before the start of the race is signalled
- Do not touch the wall when performing a turn, if the race is longer than 1 lap in the pool
- Do not finish the race
- Finish incorrectly – some strokes require the swimmer to touch the wall with both hands simultaneously or to touch the wall on their back.

If a swimmer is disqualified from a race, then they will not have a recorded time or position and in turn will earn no points for their team if they are part of one.

A swimming event can take place at multiple venues over multiple days. In addition to every race being timed in order to measure the time each swimmer takes to complete the race; each race has a start time which is the time during the day the event will start and a particular date on which the race will happen.