**Bird Watching Club**

**Scenario** (100 words maximum)

The database stores details of sightings of birds by club members, including the species of bird, the location and the date. The database will enable members to keep a record of their own sightings, search for locations where particular birds are frequently sighted by club members, find other club members who live nearby etc..

**Example entities and attributes** (Minimum 4 example entities, each with at least 2 example attributes and values. At least one entity must be an event/action entity). Identify keys where appropriate.

Member (Entity)
        Member ID – 12345 (key)
        Member Name – Chris Smart
        Address – City University, Northampton Square
        Town/City – London
        Post Code – EC1V 0HB

Bird (Entity)
        Common Name – Blue Tit
        Scientific Name - Cyanistes caeruleus (key)
        Preferred habitat – Woodland
        Normally sighted – All year

Location (Entity)
        Name – Walthamstow Wetla1. nds
        Post Code - N17 9NH (key)
        Habitat – Freshwater wetland

Sighting (Event entity, candidate key not determined)
        Member – Chris Smart
        Bird – Common Sparrow
        Location – Highgate Woods
        Date – 10th June 2020

**Example queries** (Minimum 5 – list, who, which, how many, most, fewest etc. - check that you have listed the attributes needed to answer your queries)

1. Which members live in London?
2. Which woodland birds which can be sighted all year round?
3. When was the last time I saw a Mute Swan?
4. How many times have I sighted a Goldcrest?
5. Which member has sighted the most birds which prefer moorland habitat?

1. Chris Smart                                                                    2.
2. Blue Tit
3. 10<sup>th</sup> June 2010 (I don't really know?)
4. Dunno either
5. Chris Smart