

Scenario

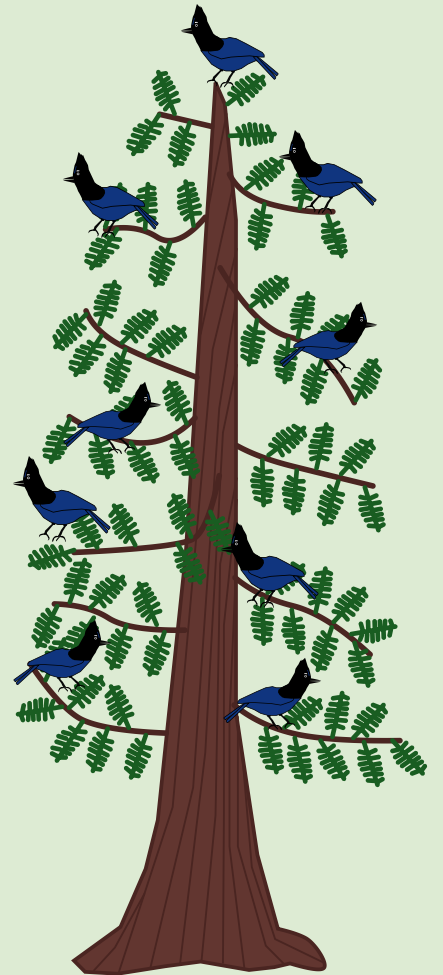
- Connections With Nature Initiative
- "How can we assist faculty, students, and the community to learn about and connect with the natural world?"
- A responsibility and an opportunity

Birds, Data, and Digital Resources

Connections With Nature Initiative
Proposal by Jacob Covey

SVG graphics available for download at

ALBOE.io



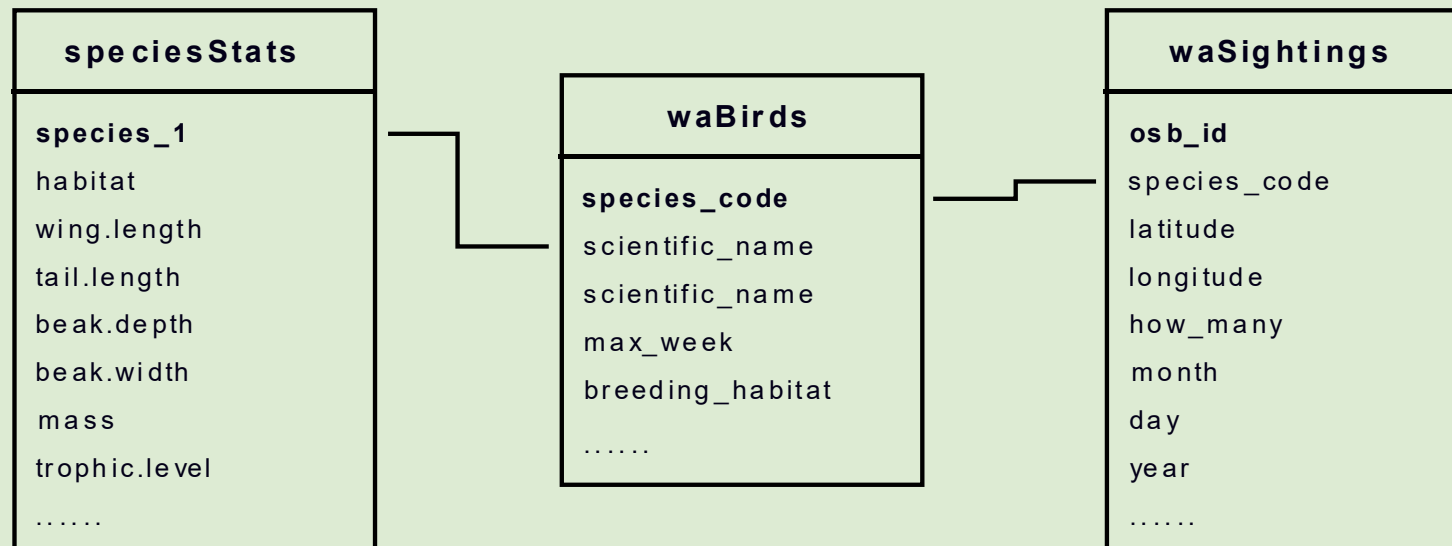
Proposal: PenCol Birds

A digital library of the birds that visit our campuses and communities.



Where be the bird data?

1. AVONET: Bird Species Statistics (<https://opentraits.org/datasets/avonet.html>)
2. Cornell Lab: WA Bird Species Summaries (https://data.feederwatch.org/pfw/stateReport#US-WA,PFW_2025)
3. Cornell Lab: WA bird sightings (Last 20,000) (<https://feederwatch.org/explore/raw-dataset-requests/>)



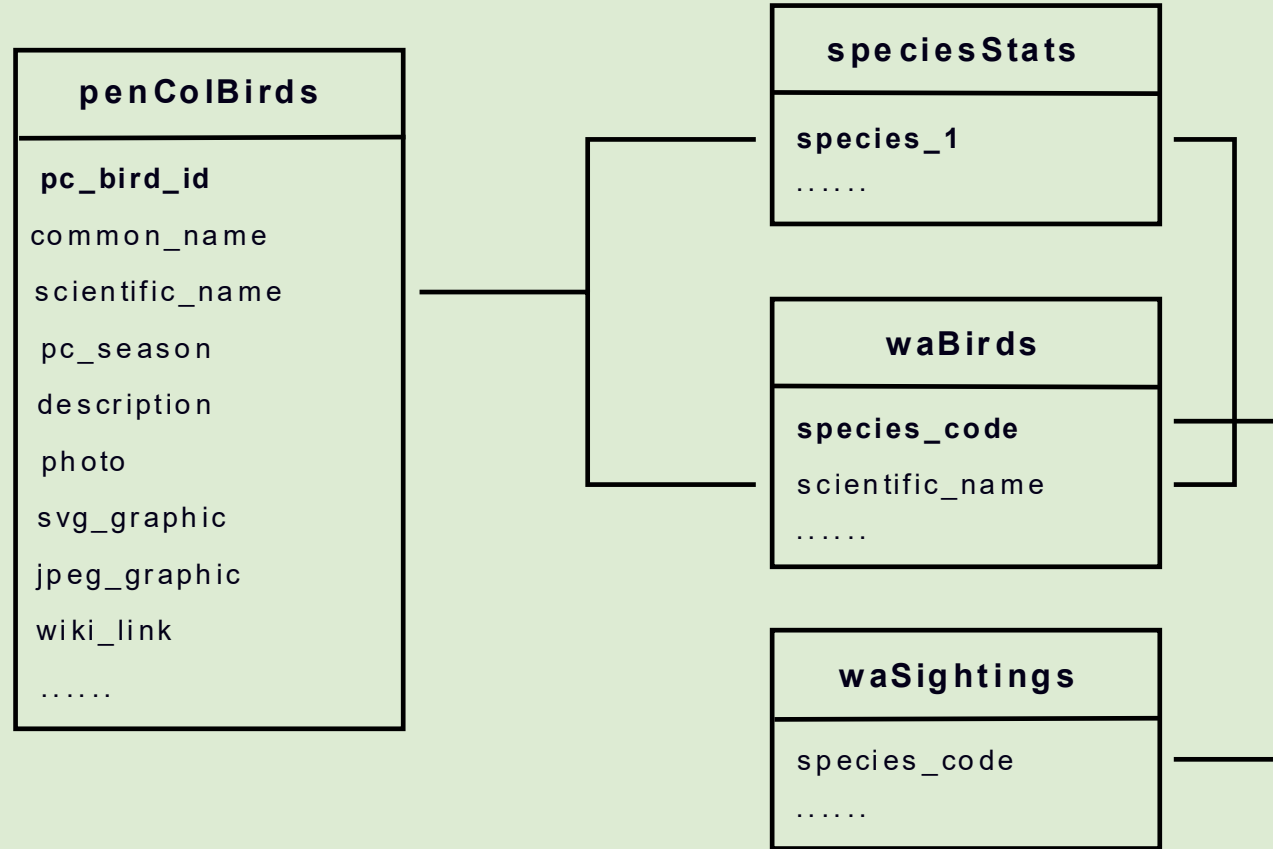
SQL Query (PenCol Birds Report)

```
SELECT
    wb.common_name,
    wb.scientific_name,
    ss.Habitat,
    ss.WingLength,
    COUNT(ws.species_code) AS sighting_count
FROM
    waBirds wb
LEFT JOIN
    waSightings ws ON wb.species_code = ws.species_code
LEFT JOIN
    speciesStats ss ON wb.scientific_name = ss.Species1
WHERE
    ws.LATITUDE BETWEEN 48 AND 49
    AND ws.LONGITUDE BETWEEN -124 AND -123
GROUP BY
    wb.species_code, wb.scientific_name
ORDER BY
    sighting_count DESC
LIMIT
    20;
```

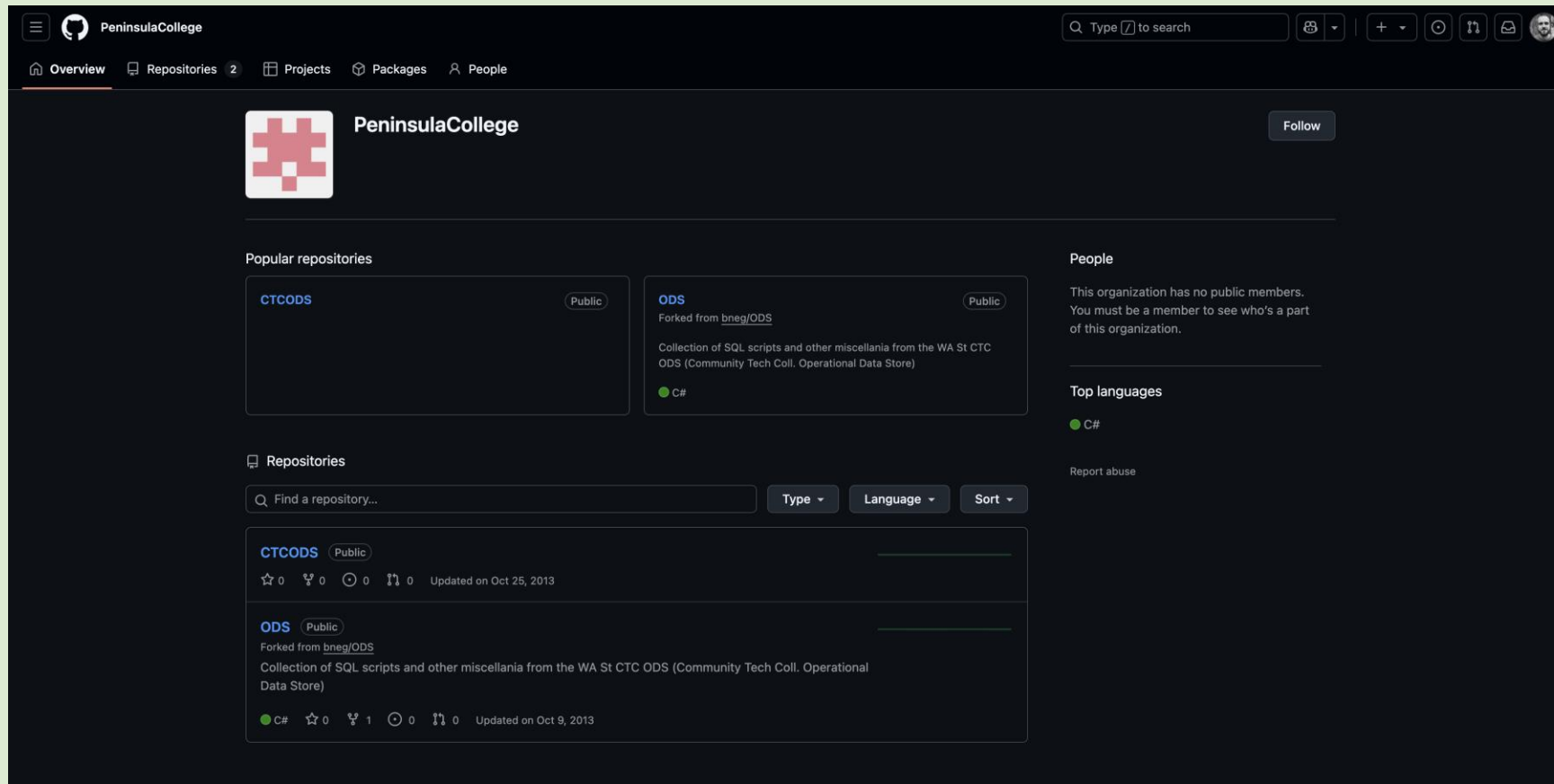
Initial PenCol Birds Report

Common Name	Scientific Name	Habitat	Wing Length	Sightings Count
Dark-eyed Junco	Junco hyemalis	Forest	75.2	18
Anna's Hummingbird	Calypte anna	Woodland	49	16
Pine Siskin	Spinus pinus	Forest	72.4	16
Steller's Jay	Cyanocitta stelleri	Forest	145.8	16
Chestnut-backed Chickadee	Poecile rufescens	Forest	61.1	14
Red-breasted Nuthatch	Sitta canadensis	Forest	66.4	14
Black-capped Chickadee	Poecile atricapillus	Forest	64.4	9
Downy Woodpecker	Dryobates pubescens	Woodland	91.3	8
House Finch	Haemorhous mexicanus	Shrubland	77.2	8
Bushtit	Psaltriparus minimus	Woodland	45.2	5
Northern Flicker	Colaptes auratus	Shrubland	151.8	5
Spotted Towhee	Pipilo maculatus	Forest	85.8	3

Step 1: PenColBirds Database



Step 2: PenColBirds GitHub Page & Project



<https://github.com/PeninsulaCollege>