**SCHEMAS** 

**PROCEDURES** 

**STORED** 

**SCHEMAS** 

etl

Park

ref

rpt

Species

stg

util

**Stored Procedures** 

etl.Generate\_JSON\_Species

<u>example JSON</u> screenshot example

etl.InsertToUniqueSpeciesID

etl.Load\_AllParksAllCurrent

etl.Load\_Category\_Comp\_rpts

etl.Load\_Family\_Comp\_All\_Summary

etl.Load\_Family\_Comp\_rpts

etl.Load\_Family\_Rpt\_By\_Park

etl.Load\_Park\_Acadia

etl.Load\_Park\_Comp\_rpts

etl.Load\_Park\_Everglades

etl.Load\_Park\_Glacier

etl.Load\_Park\_GreatSmokyMountains

etl.Load\_Park\_JoshuaTree

etl.Load\_Park\_MichiganIsleRoyale

etl.Load\_Park\_MichiganSleepingBear

etl.Load\_Park\_NorthCascadesOlympic

etl.Load\_Park\_Redwoods

etl.Load\_Park\_Saguaro

etl.Load\_Park\_YellowstoneGrandTeton

etl.Load\_Park\_Yosemite

etl.Load\_Park\_Zion

etl.Load\_Species\_All\_current

etl.Load\_SpeciesUniqueToExpansion

etl.Load\_SpeciesUniqueToPark

etl.Load\_SpeciesUniqueToRegion

etl.Load\_stg\_InsertToUniqueSpeciesID

etl.Refresh\_all

etl.Refresh\_ref\_UniqueSpeciesID

util.BulkImport

Park.[PARKNAME]

Park

UniqueID

Class

Order

Family

Abundance

CommonName

DailyActivity

 YearlyActivity IUCN

Habitat

-- Individual park tables that contain ALL species from each park.

-- Loaded via individual etl.Load\_Park\_[ParkName] stored procedures

📸 <u>screenshot example</u>

Park.Acadia

<u>Park.Everglades</u>

Park.Glacier

Park.GreatSmokyMountains

Park.JoshuaTree

Park. MichiganSleepingBear

Park.NorthCascadesOlympic

Park.Redwoods

Park.Saguaro

Park.Zion

rpt

Park

Category

Park Composition %

screenshot example

rpt.Comp\_Acadia

rpt.Comp\_Everglades

rpt.Comp\_Glacier

rpt.Comp\_JoshuaTree

rpt.Comp\_MichiganIsleRoyale

rpt.Comp\_MichiganSleepingBear

rpt.Comp\_NorthCascadesOlympic

rpt.Comp\_YellowstoneGrandTeton

rpt.Comp\_Redwoods

rpt.Comp\_Saguaro

rpt.Comp\_Yosemite

rpt.Comp\_Zion

rpt.Comp\_GreatSmokyMountains

-- Tables that have calculated metrics on

-- Loaded via etl.Load\_Park\_Comp\_rpts

the composition individual parks.

UniqueToPark

Count

rpt.Comp\_[PARKNAME]

Park

<u>ref.ParkNames</u>

📸 <u>screenshot</u>

-- Just a unique list of all Park names

ref

-- Maintained manually

ref.TranslateFamily Family

-- Maintained manually

 FamilyTranslation -- Table that describes species Family

names into more recognizable terms

📸 <u>screenshot</u>

ref.TranslateOrder

 Order OrderTranslation

-- Table that describes species Order names into more recognizable terms

etl.Load\_stg\_InsertToUniqueSpeciesID

📸 <u>screenshot</u>

-- Maintained manually

ref.UniqueSpeciesID

UniqueID

CommonName

ScientificName

-- Table with unique list of Species IDs. -- Loaded via

📸 <u>screenshot</u>

Park.MichiganIsleRoyale

Park.YellowstoneGrandTeton

Park.Yosemite

rpt contd

**TABLES** 

rpt.Comp\_[CATEGORY]

Park

 Category Count

 Park Composition % UniqueToPark

-- Table that has calculated metrics on the composition of categories of species.

-- Loaded via etl.Load\_Category\_Comp\_rpts

screenshot example

rpt.Comp\_Birds

rpt.Comp\_Fish

rpt.Comp\_Herps

rpt.Comp\_Inverts

rpt.Comp\_Mammals

rpt.Comp\_Plants

rpt.SpeciesUniqueToExpansion

UniqueID

 CommonName ExpansionOnlyFlag

MichiganIsleRoyale

 Everglades NorthCascadesOlympic

Redwoods

 Yosemite -- Table that shows which species are unique to "expansion" and in which park(s) of the expansion that they can be

-- Loaded via etl.Load\_SpeciesUniqueToExpansion

📸 <u>screenshot</u>

rpt.SpeciesUniqueToParks

UniqueID

CommonName

 UniquePark -- Table that shows which species are

unique to which parks -- Loaded via

etl.Load\_SpeciesUniqueToParks

📸 <u>screenshot</u>

rpt.SpeciesUniqueToRegion

UniqueID

 CommonName UniqueToArea

-- Table that shows which species are unique to which of the four "areas"

etl.Load\_SpeciesUniqueToRegion <u>screenshot</u>

-- Loaded via

rpt cont

rpt.Family\_Comp\_[PARK or All]

Park

Category

 Class Family

FamilyTranslated

 Tally -- Table that has information on the family composition of parks, plus one

complete report on all species -- Loaded via etl.Load\_Family\_Comp\_rpts

and etl.Load\_Family\_Comp\_All\_Summary screenshot example

rpt.Family\_Comp\_Acadia

rpt.Family\_Comp\_All\_Summary

rpt.Family\_Comp\_Everglades

rpt.Family\_Comp\_Glacier

rpt.Family\_Comp\_GreatSmokyMountains

rpt.Family\_Comp\_JoshuaTree

rpt.Family\_Comp\_MichiganIsleRoyale

rpt.Family\_Comp\_NorthCascadesOlympic

rpt.Family\_Comp\_MichiganSleepingBear

rpt.Family\_Comp\_Redwoods

rpt.Family\_Comp\_Saguaro

rpt.Family\_Comp\_YellowstoneGrandTeton

rpt.Family\_Comp\_Yosemite

rpt.Family\_Comp\_Zion

**Species** 

Category

UniqueID

Class

 Order Family

 CommonName ScientificName

GreatSmokyMountains

YellowstoneGrandTeton

Acadia

Glacier

Zion

Saguaro

Everglades

Redwoods

Yosemite

DailyActivity

YearlyActivity

bulk of the data fop

Species.All\_current

📸 <u>screenshot</u>

Habitat

IUCN

MichiganIsleRoyale

NorthCascadesOlympic

-- This acts as a single source for the

JoshuaTree

MichiganSleepingBear

GreatSmokyMountains

YellowstoneGrandTeton

JoshuaTree

Zion

Acadia

Glacier

UniqueID

Class

Order

Family

Plate

Ref

ScientificName

CommonName

MichiganSleepingBear

**Species cont** 

 Saguaro MichiganIsleRoyale

Everglades

 NorthCascadesOlympic Redwoods

 Yosemite Habitat

category)

 Notes DailyActivity

 YearlyActivity IUCN

Diet

Predators

-- These are individual main data tables for each category of species. -- These are loaded by the user

executing the util.BulkImport stored

Size (column name depends on

procedure, choosing a CSV file as the source of data.

📸 <u>screenshot example</u>

Species.Birds\_current

Species.Fish\_current

Species.Inverts\_current

Species.Mammals\_current

Species.Herps\_current

Species.Plants\_current

stg.InsertToUniqueSpeciesID

stg