```
from datetime import datetime
import pandas as pd
from extractors.direct downloads import extract with request
from models.registry import Registry
from utils.helpers import clean str, squeeze chr, date to iso, build address
class AUS(Registry):
    def __init__(self, **kwargs):
         Child container for extracting, transforming, and loading registry data for Australia
          :param kwargs: see models.registry for details
          report to the control of the control
          # assign constant values for final registry
          med annual set in facilities
          med as afficient in from
         mich andrea yann i Nicola Briancon Safary Authority of the Boar
          mid.mports_nat + *en*
          # assign registered aircraft input data source and filename
          MCT AND ROOM, NO. 1 NOTE: THE PARTY AND ADDRESS. SPIKE AND
          mid registrated friends 1 facultum, car-
          # assign deregistered aircraft input data source and filename
          and Americans, at a fange commons.
          and American Advanced Tolerand 1 Strong out
          # assign registry input data extraction method
          # assign registry input data reading method
          # assign registry data wrangling method
          mot manger it mot manger, repr
          # extract, transform, and load registry data
    def extract registry(self):
         Extracts aircraft registry input data from remote source
          :return: effect - creates [DATA DIR|TEST DIR]/[REGISTRY INPUT DIR]/[self.registry code]/[self.registered filename] file;
              effect - creates [DATA DIR|TEST DIR]/[REGISTRY INPUT DIR]/[self.registry code]/[self.deregistered filename] file
          # extract registered aircraft input data
          and it would require the con-
          Economic V mich registrated, Economic
          regionated it extract, acts, Jepannium, 1 Commis, Imports, John
          # extract deregistered aircraft input data
          and it would decomposite and and
          Complete Edition of Section 1
          Broughthood + activate, and Japanes and, Edwards, registry referrant registry reds, in harr-sect in here
          # read registry input data
    def read registry(self, registered=None, deregistered=None):
         Reads aircraft registry input data
          :param (io.StringIO) registered: text stream of extracted registered aircraft input data
          :param (io.StringIO) deregistered: text stream of extracted deregistered aircraft input data
          :return: effect - modifies self.registry
          of from its improvement, development in
               # handle when registered and deregistered aircraft input data has been extracted but not in current session
              regionated in each get, open title, part text, regionated, fillenger
              delegations in act all, lager this partners designation, friends
          # read registered aircraft input data
          # prep registered aircraft input data
          # read deregistered aircraft input data
          # prep deregistered aircraft input data
          # assign registry input data
    def wrangle registry(self):
         Transforms aircraft registry data
          :return: effect - modifies self.wrangled records
          # loop through raw registrations
          for the in sect regions, hearings
                  control tigge it the majorities tigge
               # initialize storage for wrangled representation of registration in focus
                   "Cont., bene": Book.
                   "stuck deta": Some
                   "end, direc"; boss,
                   "on Account": Book,
                   Panish Total I since Back,
                   "barrofactures": Boss.
                   Section 2. The Robots
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                   "case": Book.
                   "co., company": None,
                   "ca canaci": form,
                   "in "specialization": secial colors, record, record in appropriate
                   "self-ree": self._get_attentiones, "tener",
              of management, tight on from
                    # handle assignments unique to registered aircraft
                   security "Guer, Brow") + BCS __nerror, Browless Selections, Importing, Types
                   record "erart data" + self. cornert data ion reglecidistation, registry, types
                   record; "end_ditor"; + sett__literart_ditorion.htmpripccytern, regionity_typic
                   month "in little" | + mill __get_in_motives
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                   moved "decignation"; it may high greatering
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                   connecting populars in a pine, freezingers
                   month "fam" | 1 to a reglo i form
                   I registro, figa es Nacesporte
                    # handle assignments unique to deregistered aircraft
                    months "and Anta"; it said.
                    DECORP. "Ballishart spile": 1 File Manufact spile
                    money ("mercy), po") it some feet on, frames
                   records "traine"; " I size disport out on Acodera, from
                   record "ca., religion"; 1 let F., ... per, ca., respiny tons Registration, Bridges, No.
               # update list of transformed values to populate final registry
               # update list of transformed values to accommodate multiple registrants
           _add_registrant_copies(self, row, record):
    def
          Adds copies of a wrangled registration with updated registrant information to reflect multiple registrants
          :param (namedtuple) row: raw observation of a registration to extract additional registrants from
          :param (dict) record: wrangled representation of 'row' argument to duplicate
          :return: effect - modifies self.wrangled records
          # check that registered owner and operator are different
               # avoid modifying original wrangled representation of registration
                    # handle when registration comes from registered aircraft input data
                    # handle when registration comes from deregistered aircraft input data
               # update registrant-related values
               manufication"; it saws
               mental "in telephone" in mile.
                                                  _______
               mounts "on owner"; it follows
              month "on appropriat"; I from
               proced "address"; i act.__pr._address con, "specific
               # update list of transformed values to populate final registry
           _get_is_active(self, row):
    def
          Determines whether a registration from the registered aircraft data is truly active
          :param (namedtuple) row: raw observation of a registration to assess
          :return: 'True' if 'row' argument represents an active registration
          11 11 11
         EMPRE FORM 1 CHA, FORM AMPRICATION
         cosperal, facts it sects ..., formers, detections acopen
                                                                    lens, one regions, type
                  med, makes to from and ecoposis, data to from
               # handle when no suspension information exists
                               _ _ _ _ _ _
               # handle when only suspension date information exists
                  person, norm 1 m
                                                                                 ____
              # handle when registration is suspended
    @staticmethod
    def format colname(colname):
         Formats column name for namedtuple compatibility
         :param (str) colname: column name from registry input data to format
          :return: formatted copy of 'colname' argument suitable for namedtuple indexing
         minute it appears, the P.A. minute regions 2.5, 1,74 regions 275, 174
          ____
    @staticmethod
          convert date(date, registry type):
         Converts date to ISO format
         :param (str) date: registration date to convert
          :param (str) registry_type: which registry input dataset the 'date' argument stems from
         :return: copy of 'date' argument in ISO format
         11 11 11
         tion - "to to to" if registry type - "registross?" size "toltacto"
         date of date, in Jacobson, Book
          ___
    @staticmethod
          __get_is_company(name):
         Determines whether a registrant represents a company based on data documentation
          :param (str) name: registrant name to check
          :return: 'True' if 'name' argument represents a company
         100 1 100 1100
          ____
              ___
              are finding of N.Y. in case and not case, congress of edge from
    @staticmethod
         __check_owner_is_operator(row):
         Determines whether the registered owner and operator of an aircraft are the same entity
          :param (namedtuple) row: raw observation of a registration to assess
          :return: 'True' if both owner and operator registrants are the same
         of the majority type in "majoritation".
               # handle when registration comes from registered aircraft input data
               ment is clear, and the implications
              specific in China, Princes Aspertines
               # handle when registration comes from deregistered aircraft input data
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              speciation 1 colors, etc. treat Registrated, Speciation, Nat
          person from 17 means or specialist scient facion
    @staticmethod
    def
         __get_address(row, registrant_type):
         Builds human-readable address in common format
          :param (namedtuple) row: raw observation of a registration to utilize
          :param (str) registrant type: which type of registrant the constructed address corresponds to
          :return: cleaned and formatted address of registrant associated with 'row' argument
          # assign country-specific common address format
         template i "titl titl, titl tit titl, titl
          of the region of tiges in "responses of
               # handle when registration comes from registered aircraft input data
                      # handle when address corresponds to a registered owner
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                        the major of the same
                        the majoritation.
                        the september of the second
                        con majori di contro
                          # handle when address corresponds to a registered operator
                        and the second
                        con management.
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          eccif con regionics, tiges on Nacon
               # handle when registration comes from deregistered aircraft input data
                    # handle when address corresponds to a registered owner
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                        con Angloroscop on Brodern Millions Sons S.
                        con Association in Bridger, Salvat, Son.,
                        con Association on Bridges France,
                        con deportunities, bridges from only
                        con Angiorism on Science, Southern
               and registrant, tight in fig.
                    # handle when address corresponds to a registered operator
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                        con Angiorhecus Spaciations Saltock Sons,
                        con Angustacent Speciations Statis,
                        con Registrated, Specialism, Porticollis,
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