```
from datetime import datetime
import os
import pandas as pd
from extractors.direct downloads import extract with request
from models.registry import Registry
from utils.helpers import clean str, binary to decimal, date to iso, build address
class CAN(Registry):
         def __init__(self, **kwargs):
                  Child container for extracting, transforming, and loading registry data for Canada
                   :param kwargs: see models.registry for details
                   # assign constant values for final registry
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                   mid. anticos, name is "figuragent familia"
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                   # assign registry input data source and filename
                   -----
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                   # initialize storage for registrant reference data
                   # assign registry input data extraction method
                   # assign registry input data reading method
                   # assign registry data wrangling method
                   # extract, transform, and load registry data
         def extract_registry(self):
                   Extracts registry input data from remote source
                   :return: effect - creates [DATA DIR|TEST DIR]/[REGISTRY INPUT DIR]/[self.country code]/[self.registry filename] file
                   # extract registry input data
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         def read registry(self):
                  Reads registry input data
                   :return: effect - modifies self.registry
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                   # read data layout and definitions reference
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                   # read registry input data
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                   # prep registry input data
                   # assign registry input data
                   # read registrant reference data
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                   # prep registrant reference data
                   # assign registrant reference data
         def wrangle_registry(self):
                   Transforms registry data
                   :return: effect - modifies self.wrangled records
                   # loop through raw registrations
                            # initialize storage for wrangled representation of registration in focus
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                                     NAME AND ADDRESS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ADDRESS ASSESSMENT ASSES
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                            # subset corresponding registrant references for registration in focus
                                      \# update list of transformed values to populate final registry
                                      # update list of transformed values to record registrant and accommodate multiple registrants
                    __add_registrant_copies(self, owners, record):
                  Adds copies of a wrangled registration with updated registrant information to reflect all registrants
                   :param (pandas.DataFrame) owners: registrant reference data corresponding to a particular registration
                   :param (dict) record: wrangled representation of a registration indicated by 'owners' argument to duplicate
                   :return: effect - modifies self.wrangled records
                   # loop through registrants
                            # avoid modifying original wrangled representation of registration
                            # update registrant-related values
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                            months of many to be
                            more than the second of the se
                            # update list of transformed values to populate final registry
         @staticmethod
                  __format_registry(registry, layout_refs):
                   Cleans registry input data and adds column names parsed from data layout and definitions reference
                   :param (pandas.DataFrame) registry: registry input data to clean and add column names to
                   :param (list) layout refs: contents of data layout and definitions reference to extract column names from
                   :return: cleaned copy of 'registry' argument with column names
                   11 11 11
                   # assign indices for column name extraction
                   may a proposition and process as a
                   # extract and assign appropriate column names from data layout and definitions reference
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                   THE RESERVE TO SHARE THE PARTY OF THE PARTY 
                   # remove invalid rows
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         @staticmethod
                  format registrant refs(registrant refs, registry, layout refs):
                  Adds column names parsed from data layout and definitions reference to registrant reference input data
                   :param (pandas.DataFrame) registrant refs: aircraft registration registrant input data to add column names to
                   :param (list) layout refs: contents of data layout and definitions reference to extract column names from
                   :return: copy of 'registrant refs' argument with column names
                   # assign indices for column name extraction
                   array is proved a long-participal, parks alragacity
                   # extract and assign appropriate column names from data layout and definitions reference
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                   regionizate, pela cicata e scinata
                   and the second second second
         @staticmethod
                   get is active(status):
                   Determines whether a registration is currently active
                   :param (str) status: registration status to check
                   :return: 'True' if 'status' argument represents an active registration
                  manual or community of the community
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         @staticmethod
         def __get_year(date):
                  Extracts the year from a date
                   :param (str) date: registration date to get year from
                   :return: year value from 'date' argument
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         @staticmethod
                   __get_is_company(category):
                  Determines whether a registrant represents a company based on data documentation
                   :param (str) category: category label representing type of registrant
                   :return: 'True' if 'category' argument represents a company
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                   and rangers in factory's
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```

# handle when category has value "N/F"

Builds human-readable address in common format

# assign country-specific common address format

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temporary of "control, control control, or

man American, m., man, p.

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:return: cleaned and formatted address of registrant

:param (namedtuple) owner: raw observation of a registrant corresponding to a particular registration

@staticmethod

def \_\_get\_address(owner):