FinnAdvertProcessing - Stressa v.0.0.101

<InputOperation>
id: FINN Code

default

keys<[finn_code]>
FINN Code <type 'dict'>

default

<ValidateFinnCode>
rules: only_numeric_values, starts_with_one, max_len_eight_or_nine
id: Validate Finn Code

default

keys<[finn_code]>
Validated Finn Code <type 'dict'>

thread / thread / thread / thread

<ScrapeFinnStatisticsInfo>
from: 'https://www.finn.no/prisstatistikk/<[finn_code]>'
id: Scrape FINN Statistics Info

<ScrapeFinnCommunityStatistics>
from: 'https://profil.nabolag.no/<[finn_code]>'
id: Scrape FINN Community Statistics

<ScrapeFinnAdvertInfo>
from: 'https://finn.no/realestate/homes/ad.html?finnkode=<[finn_code]>'
id: Scrape FINN Advert Info

<ScrapeFinnOwnershipHistory>
from: 'https://finn.no/realestate/ownershiphistory.html?finnkode=<[finn_code]>'
id: Scrape FINN Ownership History

thread

keys<[sqm_price, images, views, edited, firstpublished, published,
city_area, hist_data_city_area, hist_data_city_area_count, municipality, hist_data_municipality, hist_data_municipality_count,
city_area_sqm_price, municipality_sqm_price]>
FINN Statistics Information <type 'dict'>

keys<[nabolag]>
FINN Community Statistics <type 'dict'>

keys<[finn_adresse, prisantydning, status, fellesgjeld, omkostninger, totalpris, felleskostmnd, boligtype, eieformbolig,
soverom, primrrom, bruksareal, etasje, bygger, energimerking, rom, tomteareal, bruttoareal,
boligselgerforsikring, fellesformue, formuesverdi, finnkode, sistendret, referanse]>
FINN Advert Information <type 'dict'>

keys<[eieform, kommunenr, gardsnr, bruksnr, historikk]>
FINN Ownership History <type 'dict'>

default / default / default / default

<Multiplex>
id: Multiplex Scraped Finn Information

default

keys<[finn_adresse, prisantydning, status, fellesgjeld, omkostninger, totalpris, felleskostmnd, boligtype, eieformbolig,
soverom, primrrom, bruksareal, etasje, bygger, energimerking, rom, tomteareal, bruttoareal,
boligselgerforsikring, fellesformue, formuesverdi, finnkode, sistendret, referanse, eieform, kommunenr, gardsnr,
bruksnr, historikk, sqm_price, images, views, edited, firstpublished, published, city_area,
hist_data_city_area, hist_data_city_area_count, municipality, hist_data_municipality, hist_data_municipality_count, city_area_sqm_price, municipality_sqm_price, nabolag]>
Multiplexed Finn Information <type 'dict'>

thread / thread / thread / thread

<Extract>
id: Extract <key 'published'>

<Extract>
id: Extract <key 'historikk'>

<Extract>
id: Extract <key 'prisantydning'>

<Extract>
id: Extract <key 'nabolag'>

thread / thread / thread / thread

keys<[historikk]>
Ownership History <type 'dict'>

keys<[prisantydning]>
List Price of Real-estate <type 'dict'>

keys<[published]>
Publishing Date of Advertisement <type 'dict'>

dataframe / row

keys<[nabolag]>
Finn Community Statistics <type 'dict'>

thread

<ExtractFirstRow>
id: Extract the Newest Sale with Date

<AddRowToDataFrame>
id: Add List Price to Ownership History

<FinnCommunitySubModel>
Process: FinnCommunityProcess
id: Processing Finn Community Statistics

thread / thread

keys<[Tinglyst, Boligtype, Andelsnummer, Pris]>
Newest Sale with Date <type 'dict'>

thread

keys<[info, age_distribution, civil_status, education, income, higheducation,
higheducation_location, age_distribution_children, schools, schools_location, family_rating, kindergardens,
kindergardens_location, highschools, highschools_location, family_composition, housing_stock, housing_ownership,
safety_rating, noise_rating, environment_rating, gardens_rating, roads_rating, housing_area,
housing_age, housing_prices, transport, transport_location, rating_public_transportation, primarytransport,
ladepunkt, ladepunkt_location, rating_parking, rating_traffic, bysykler, bysykler_location,
sport, sport_location, rating_activity, rating_serving, rating_hiking, groceries,
groceries_location, rating_food_selection, services, services_location]>
Processed Finn Community Statistics <type 'dict'>

<CheckNewestDate>
id: Publishing Date of Advertisement Later Than Newest Sale

true / false

keys<[Tinglyst, Boligtype, Andelsnummer, Pris]>
Ownership History with List Price <type 'dict'>

dataframe

keys<[Tinglyst, Boligtype, Andelsnummer, Pris]>
Final Sales Price of Advertised Real-Estate <type 'dict'>

keys<[Tinglyst, Boligtype, Andelsnummer, Pris]>
Advertised Real-Estate Not Sold / Registered Yet <type 'dict'>

row

<AddRowToDataFrame>
id: Add Final Sales Price to Ownership History

thread

keys<[Tinglyst, Boligtype, Andelsnummer, Pris]>
Ownership History With List Price and Final Sales Price <type 'dict'>

default

<RateOfChange>
id: Calculate Percentage Change in Real-estate Price

default

keys<[historikk]>
Ownership History with Percentage Change in Real-estate Price <type 'dict'>

default

<Multiplex>
id: Multiplex Scraped Finn Information, Ownership History
with Price Change and Community Statistics

default

keys<[finn_adresse, prisantydning, status, fellesgjeld, omkostninger, totalpris, felleskostmnd, boligtype, eieformbolig, soverom, primrrom, bruksareal,
etasje, bygger, energimerking, rom, tomteareal, bruttoareal, boligselgerforsikring, fellesformue, formuesverdi, finnkode, sistendret, referanse,
eieform, kommunenr, gardsnr, bruksnr, historikk, sqm_price, images, views, edited, firstpublished, published, city_area,
hist_data_city_area, hist_data_city_area_count, municipality, hist_data_municipality, hist_data_municipality_count, city_area_sqm_price, municipality_sqm_price, nabolag, info, age_distribution, civil_status, education,
income, higheducation, higheducation_location, age_distribution_children, schools, schools_location, family_rating, kindergardens, kindergardens_location, highschools, highschools_location, family_composition,
housing_stock, housing_ownership, safety_rating, noise_rating, environment_rating, gardens_rating, roads_rating, housing_area, housing_age, housing_prices, transport, transport_location,
rating_public_transportation, primarytransport, ladepunkt, ladepunkt_location, rating_parking, rating_traffic, bysykler, bysykler_location, sport, sport_location, rating_activity, rating_serving,
rating_hiking, groceries, groceries_location, rating_food_selection, services, services_location]>
Multiplexed Finn Information <type 'dict'>

default

<OutputOperation>
id: Multiplexed Finn Information

default

keys<[finn_adresse, prisantydning, status, fellesgjeld, omkostninger, totalpris, felleskostmnd, boligtype, eieformbolig, soverom, primrrom, bruksareal, etasje, bygger,
energimerking, rom, tomteareal, bruttoareal, boligselgerforsikring, fellesformue, formuesverdi, finnkode, sistendret, referanse, eieform, kommunenr, gardsnr, bruksnr,
historikk, sqm_price, images, views, edited, firstpublished, published, city_area, hist_data_city_area, hist_data_city_area_count, municipality, hist_data_municipality, hist_data_municipality_count, city_area_sqm_price,
municipality_sqm_price, nabolag]>
Finn Information <type 'dict'>