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://finn.no/pulse/pricepersqm?finnkode=\<[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, totalviews, latestemailcount, currentfavorites, first_published, published,
views_development, normal_traffic, location, price_range, size_range, property_type,
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, omkostninger, totalpris, kommunaleavg, boligtype, eieform, soverom,
primrrom, bruksareal, bygger, energimerking, tomteareal, bruttoareal, 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, omkostninger, totalpris, kommunaleavg, boligtype, eieform, soverom,
primrrom, bruksareal, bygger, energimerking, tomteareal, bruttoareal, formuesverdi, finnkode, sistendret,
referanse, kommunenr, gardsnr, bruksnr, historikk, sqm_price, totalviews, latestemailcount, currentfavorites,
first_published, published, views_development, normal_traffic, location, price_range, size_range, property_type, 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 — thread

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

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

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

\<Extract\>
id: Extract \<key 'views_development'\>

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

thread — thread — thread — thread — thread

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

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

keys\<[views_development]\>
Development of Advert Views \<type 'dict'\>

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

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

\<ExtractFirstRow\>
id: Extract the Newest Sale with Date

dataframe — row

\<AddRowToDataFrame\>
id: Add List Price to Ownership History

\<RateOfChange\>
id: Calculate Percentage Change in Advert Views

thread

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

thread

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

keys\<[views_development]\>
Percentage Change in Advert Views \<type 'dict'\>

keys\<[age_distribution, civil_status, education, income, higheducation, higheducation_location,
age_distribution_children, schools, schools_location, family_ratings, 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, info]\>
Processed Finn Community Statistics \<type 'dict'\>

thread — thread

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

\<Accumulate\>
id: Calculate the Accumulated Sum of Views

true — false — thread — thread

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

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

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

keys\<[accumulated]\>
Accumulated Sum of Views \<type 'dict'\>

row — dataframe — thread

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

\<Multiplex\>
id: Multiplex Accumulated Sum with Views Development

thread — thread

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

keys\<[views_development]\>
Multiplexed Accumulated Sum with Views Development \<type 'dict'\>

default — 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 — default — default — default

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

default

keys\<[finn_adresse, prisantydning, status, omkostninger, totalpris, kommunaleavg, boligtype, eieform, soverom, primrrom, bruksareal, bygger,
energimerking, tomteareal, bruttoareal, formuesverdi, finnkode, sistendret, referanse, kommunenr, gardsnr, bruksnr, historikk, sqm_price,
totalviews, latestemailcount, currentfavorites, first_published, published, views_development, normal_traffic, location, price_range, size_range, property_type, 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, age_distribution, civil_status, education, income,
higheducation, higheducation_location, age_distribution_children, schools, schools_location, family_ratings, 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, info]\>
Multiplexed Finn Information \<type 'dict'\>

default

\<OutputOperation\>
id: Multiplexed Finn Information

default

keys\<[finn_adresse, prisantydning, status, omkostninger, totalpris, kommunaleavg, boligtype, eieform, soverom, primrrom, bruksareal, bygger, energimerking, tomteareal,
bruttoareal, formuesverdi, finnkode, sistendret, referanse, kommunenr, gardsnr, bruksnr, historikk, sqm_price, totalviews, latestemailcount, currentfavorites, first_published,
published, views_development, normal_traffic, location, price_range, size_range, property_type, 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'\>