COUNTRY EXPOSURE MODEL Review main statistic of a exposure model and create summaries for a given Country. /home/risk/venvs/py38w/lib/python3.8/site-packages/geopandas/_compat.py:111: UserWarning: The Sh apely GEOS version (3.9.1-CAPI-1.14.2) is incompatible with the GEOS version PyGEOS was compiled with (3.10.1-CAPI-1.16.0). Conversions between both will be slow. warnings.warn(# Parameters country = "Colombia" tmp/ipykernel_1044/1537960877.py:7: DtypeWarning: Columns (22) have mixed types.Specify dtype o/ ption on import or set low_memory=False. dfs = [pd.read_csv(file_path) for file_path in files.File_Path] Exposure files: Exposure_Com_Colombia.csv Exposure_Ind_Colombia.csv Exposure_Res_Colombia.csv Sanity checks and formats **Exposure at National level** Summary by occupancy type COST USD **OCCUPANTS BUILDINGS BUILDINGS_%** COST_USD_% **OCCUPANCY** 91.59% Res 45.0M 6,532.6K \$728.8B 79.66% Ind 0.0M 261.6K \$69.8B 3.67% 7.63% \$116.3B 0.0M 338.1K 4.74% Com 12.71% Other metrics to consider COST_BUILDING_USD AVG_BUILDING_AREA_SQM AVG_COST_PER_AREA_USD AREA SQM **OCCUPANCY** Total 1,187.5M \$680.4B 166 \$770 Res 987.0M \$566.8B 151 \$738 \$36.9B Ind 74.9M 286 \$932 125.6M \$76.6B 371 \$926 Com **Exposure summary at Admin level 1** COST_USD **BUILDINGS OCCUPANTS** COST_USD_% **BUILDINGS_%** OCCUPANTS_% NAME_1 Bogotá, D.C. \$222,888.8M 962,289 7,965.4K 24.36% 13.49% 17.69% \$131,229.1M Antioquia 852,027 6,031.6K 14.34% 11.95% **13.40**% Valle del \$95,001.7M 4,364.8K 10.38% 11.13% 9.69% 794,088 Cauca **Atlántico** \$54,888.5M 425,384 2,324.4K 6.00% 5.96% 5.16% 404,410 4.99% Cundinamarca \$45,648.8M 2,764.5K 5.67% 6.14% \$36.560.0M **Bolívar** 319,878 4.00% 4.48% 4.17% 1.877.5K 4.41% Santander \$36,517.7M 293,452 1,987.2K 3.99% 4.11% Norte de \$28,321.6M 286,455 1,326.0K 3.10% 2.94% 4.02% Santander 1,211.5K **Tolima** \$23,498.7M 235,910 2.57% 3.31% 2.69% Meta \$22,893.7M 217,267 898.2K 2.50% 3.05% 1.99% Risaralda \$21,516.2M 159,194 827.6K 2.35% 2.23% 1.84% 149,964 Caldas \$18,750.5M 912.1K 2.05% 2.10% 2.03% Boyacá \$18,748.8M 178,336 1,123.0K 2.05% 2.50% 2.49% \$17,693.3M Magdalena 211,600 1,232.8K 1.93% 2.97% 2.74% 2.60% Huila \$17,683.4M 185,207 992.7K 1.93% 2.20% 1,513.9K 2.96% Córdoba \$16,308.8M 210,997 1.78% 3.36% Nariño 1.78% 2.34% \$16,261.5M 166,638 1,321.1K 2.93% 1.76% Cesar \$16,120.7M 193,802 1,067.7K 2.72% 2.37% \$13,211.3M Cauca 150,179 1,220.7K 1.44% 2.11% 2.71% Quindio \$12,920.2M 111,404 500.5K 1.41% 1.56% 1.11% Sucre \$10,983.6M 137,367 840.5K 1.20% 1.93% 1.87% Casanare \$7,725.6M 81,402 364.5K 0.84% 1.14% 0.81% La Guajira \$6,707.5M 90,861 729.3K 0.73% 1.27% 1.62% Caquetá \$6,078.0M 81,800 353.2K 0.66% 1.15% 0.78% Chocó \$5,180.9M 77,162 448.8K 0.57% 1.08% 1.00% 0.62% **Putumayo** \$3,866.3M 54,023 279.3K 0.42% 0.76% \$3,471.6M 46,530 217.6K 0.38% 0.65% 0.48% **Arauca** Archipiélago de San Andrés, \$1,206.4M 9,391 47.9K 0.13% 0.13% 0.11% Providencia y Santa Catalina Guaviare \$1,130.0M 16,103 70.9K 0.12% 0.23% 0.16% 9,281 **Amazonas** \$706.5M 64.7K 0.08% 0.13% 0.14% Vichada \$596.5M 9,835 68.3K 0.07% 0.14% 0.15% Guainía \$367.4M 6,286 42.0K 0.04% 0.09% 0.09% Vaupés \$217.4M 3,827 34.9K 0.02% 0.05% 0.08% Exposure by simplified taxonomy Adding `MACRO_TAXO` column COST_USD **BUILDINGS OCCUPANTS** COST_USD_% **BUILDINGS_%** OCCUPANTS_% MACRO_TAXO 9.47% 10.50% RC \$320.8B 35.06% 675.3K 4,726.8K \$240.9B 26.33% **MUR** 3,970.6K 24,903.6K 55.67% 55.31% MCF \$230.0B 1,383.3K 25.14% 19.40% 18.24% 8,211.9K MR \$72.2B 345.7K 2,770.9K 7.89% 4.85% 6.15% \$23.8B 1.55% S 110.6K 0.0K 2.60% 0.00% W \$13.9B 324.2K 2,167.5K 1.52% 4.54% 4.81% \$7.8B ADO/E 188.9K 0.85% 2.65% 3.31% 1,488.6K OT \$5.6B 133.8K 755.6K 0.61% 1.88% 1.68% Exposure by taxonomy Showing only taxonomies that represent 90% of the total `COST_USD` COST_USD **BUILDINGS** COST USD % BUILDINGS_% MACRO_TAXO **TAXONOMY** 783,238 7.09% 11.49% MUR/LWAL+DNO/H:2/RES \$58,384.3M \$52,280.2M 20.35% **MUR** MUR/LWAL+DNO/H:1/RES 1,387,881 6.35% MUR/LWAL+DNO/H:2/IL:B/RES \$29,970.8M 433.863 3.64% 6.36% MCF MCF/LWAL+DNO/H:2/IL:B/RES \$27,279.7M 115,592 3.31% 1.70% MUR/LWAL+DNO/H:3/RES \$25,174.5M 164,848 3.06% 2.42% **MUR** 2.38% MUR/LWAL+DNO/H:1/IL:B/RES \$19,584.1M 567,006 8.31% \$18.755.8M 2.28% MCF/LWAL+DNO/H:2/RES 150,066 2.20% MCF MCF/LWAL+DNO/H:1/IL:B/RES \$15,795.8M 133.863 1.92% 1.96% **RC** CR/LFINF+DUL/HBET:1-3/IND4 \$15,645.8M 45,141 1.90% 0.66% W W+WO/LN+DNO/H:1/RES \$13,645.7M 320,998 1.66% 4.71% **RC** CR/LFINF+DNO/H:5/IL:B/RES \$13,140.3M 23,672 1.60% 0.35% **MUR** MUR/LWAL+DNO/H:2/IL:M/RES \$13,118.9M 189,912 1.59% 2.78% **MCF** MCF/LWAL+DNO/H:3/RES \$11,992.6M 75.487 1.46% 1.11% MR MR/LWAL+DUM/H:3/RES 67.950 1.42% 1.00% \$11.715.1M MCF/LWAL+DUH/H:2/IL:B/RES **MCF** \$11,391.2M 48,268 1.38% 0.71% CR/LFINF+DNO/H:4/IL:B/RES \$11,294.3M 1.37% 0.37% 25,433 CR/LFINF+DNO/HBET:6-**RC** 1.35% \$11,139.3M 12,542 0.18% 10/IL:B/RES CR/LFINF+DNO/H:3/IL:B/RES \$10,334.5M 31,029 1.26% 0.46% MCF/LWAL+DNO/H:2/IL:M/RES \$9,772.3M 41,408 1.19% 0.61% MCF MCF/LWAL+DUH/H:2/RES \$9,203.6M 109,231 1.12% 1.60% \$8.882.9M 25.093 MCF/LWAL+DNO/H:3/IL:B/RES 1.08% 0.37% MUR/LWAL+DNO/H:3/IL:B/RES \$8,846.4M 85,375 1.07% 1.25% **MUR** MUR/LWAL+DNO/H:4/RES \$8,342.7M 23,132 1.01% 0.34% **RC** CR/LFINF+DUL/HBET:4-6/COM6 \$7,865.9M 14,096 0.96% 0.21% MR/LWAL+DUM/H:4/RES \$7.777.8M 0.94% MR 0.26% 17,766 **MUR** MUR/LWAL+DNO/H:1/IL:M/RES \$7,772.0M 225,019 0.94% 3.30% CR/LFINF+DNO/H:4/RES \$7,592.5M 10,000 0.92% 0.15% **RC** CR/LWAL+DUM/HBET:7-10/COM6 \$7,536.6M 8,441 0.92% 0.12% CR/LFINF+DNO/H:5/RES \$7,251.5M 5,181 0.88% 0.08% **MCF** MCF/LWAL+DNO/H:1/RES \$7,185.0M 89,635 0.87% 1.31% RC CR/LFINF+DNO/H:3/RES \$6,925.8M 36,192 0.84% 0.53% MCF MCF/LWAL+DNO/H:4/RES \$6,386.8M 17,532 0.78% 0.26% 170,881 0.73% \$5,969.9M ADO/E MUR+ADO/LWAL+DNO/H:1/RES 2.51% MCF/LWAL+DUM/H:3/RES \$5,440.1M 28,292 0.66% 0.41% **MCF** MCF/LWAL+DUH/H:2/IL:M/RES \$5,402.0M 40,515 0.66% 0.59% CR/LFINF+DUM/H:6/RES \$5,305.4M 2,388 0.64% 0.04% RC CR/LFINF+DUL/HBET:1-3/IND3 \$5,188.6M 14,970 0.63% 0.22% **MCF** MCF/LWAL+DUH/H:1/IL:B/RES \$5,106.6M 43,276 0.62% 0.63% RC CR/LFINF+DUL/HBET:1-3/COM01 \$5,089.2M 13,028 0.62% 0.19% **MCF** MCF/LWAL+DUL/H:2/IL:B/RES \$5,012.4M 21,239 0.61% 0.31% RC CR/LFINF+DUL/HBET:1-3/COM6 \$4,963.3M 25,412 0.60% 0.37% MR/LWAL+DUM/H:2/RES \$4,794.1M 56,332 0.58% 0.83% MR MR/LWAL+DUH/H:3/IL:B/RES \$4,727,0M 13,353 0.57% 0.20% **MCF** MCF/LWAL+DUH/H:3/IL:B/RES \$4,710.7M 13,307 0.57% 0.20% 8,381 0.57% RC CR/LFINF+DUM/HBET:4-6/COM6 0.12% \$4,676.7M **MUR** MUR/LWAL+DNO/H:3/IL:M/RES \$4,613.8M 44,527 0.56% 0.65% RC CR/LFINF+DUL/HBET:1-3/COM5 \$4,586.1M 9,784 0.56% 0.14%

MUR

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ADO/E

MUR/LWAL+DNO/H:2/COM02

MCF/LWAL+DNO/H:1/IL:M/RES

MR/LWAL+DUH/H:3/IL:M/RES

CR/LFINF+DUM/HBET:1-3/COM6

CR/LFINF+DUH/H:5/IL:M/RES

MCF/LWAL+DUL/H:2/COM01

CR/LFINF+DNO/H:3/IL:M/RES

MCF/LWAL+DUL/H:2/COM02

CR/LFINF+DUM/H:5/RES

MCF/LWAL+DNO/H:3/IL:M/RES

MCF/LWAL+DUL/H:1/IL:B/RES

CR+PC/LWAL+DUL/H:1/RES

MR/LWAL+DUL/H:3/IL:B/RES

CR/LFINF+DUH/H:4/IL:M/RES

MUR/LWAL+DNO/H:1/COM02

MR/LWAL+DUH/H:2/IL:B/RES

MCF/LWAL+DUH/H:3/RES

MR/LWAL+DUM/H:5/RES

MCF/LWAL+DUL/H:2/IND3

CR/LFINF+DUL/HBET:1-3/IND5

MCF/LWAL+DUM/H:2/IL:B/RES

MR/LWAL+DUH/H:2/IL:M/RES

CR+PC/LFM+DUM/H:1/IND4

CR/LFINF+DUH/HBET:4-6/COM6

CR/LFINF+DNO/H:2/RES

CR/LWAL+DUM/H:5/RES

CR/LFINF+DUM/H:8/RES

SR/LFM+DUM/H:1/IND4

SL/LFM+DUM/H:1/IND4

CR/LWAL+DUM/H:7/RES

CR/LFINF+DUM/HBET:1-3/IND4

MCF/LWAL+DUL/H:2/COM5

CR/LDUAL+DUM/H:12/RES

MCF/LWAL+DUM/H:2/IND3

CR/LFINF+DUH/HBET:1-3/COM6

MCF/LWAL+DUL/H:3/IL:B/RES

CR/LFINF+DUM/H:5/IL:M/RES

CR/LFINF+DUM/H:9/RES

CR/LFINF+DUH/HBET:6-

CR/LWAL+DUM/H:12/RES

CR/LFINF+DUM/HBET:6-

MCF/LWAL+DUM/H:4/RES

MCF/LWAL+DUH/H:3/IL:M/RES

MR/LWAL+DUL/H:2/IL:B/RES

CR/LFINF+DUH/HBET:6-

CR+PC/LFM+DUM/HBET:1-

CR/LFINF+DUM/HBET:1-3/COM01

MCF/LWAL+DUM/H:2/IL:M/RES

CR/LWAL+DUL/HBET:7-10/COM6

MCF/LWAL+DUM/H:1/IL:B/RES

CR/LFINF+DUL/HBET:6-

CR/LFINF+DUM/H:2/RES

MCF/LWAL+DUL/H:1/COM01

CR+PC/LFM+DUH/H:1/IND4

CR/LFINF+DUM/H:4/IL:M/RES

CR/LFINF+DUH/H:5/IL:A/RES

MR/LWAL+DUM/H:3/IL:B/RES

CR/LFINF+DUM/HBET:1-3/IND5

SR/LFM+DUM/HBET:1-3/COM01

CR/LDUAL+DUM/H:10/RES

CR/LFINF+DNO/HBET:6-

SL/LFM+DUH/H:1/IND4

SR/LFM+DUH/H:1/IND4

CR/LFINF+DUH/HBET:1-3/IND4

CR/LFINF+DUM/HBET:1-3/COM5

MR/LWAL+DUM/H:3/IL:M/RES

MCF/LWAL+DNO/H:5/RES

MCF/LWAL+DUL/H:2/IND5

CR/LDUAL+DUM/H:11/RES

CR+PC/LWAL+DUL/H:2/RES

MCF/LWAL+DUL/H:1/COM02

CR/LFINF+DNO/H:5/IL:M/RES

CR/LFINF+DUH/H:3/IL:M/RES

CR/LFINF+DUH/H:4/IL:A/RES

MR/LWAL+DUL/H:3/IL:M/RES

MCF/LWAL+DUL/H:2/IL:M/RES

CR/LFINF+DUM/HBET:1-3/IND3

CR/LFINF+DNO/H:4/IL:M/RES

MR/LWAL+DUM/H:2/IL:B/RES

MR/LWAL+DUH/H:3/IL:A/RES

CR/LFINF+DUL/H:5/IL:M/RES

MCF/LWAL+DUM/H:3/IL:B/RES

CR/LFINF+DUH/H:5/IL:B/RES

CR/LWAL+DUM/H:13/RES

SR/LFM+DUM/H:1/COM2

MR/LWAL+DUM/H:6/RES

3/COM01

CR+PC/LFM+DUH/HBET:1-

CR/LFINF+DUL/H:4/IL:M/RES

MCF/LWAL+DNO/H:2/IL:A/RES

CR/LFINF+DUL/HBET:1-3/IND2

SR/LFM+DUM/HBET:1-3/COM5

CR/LFINF+DUL/HBET:4-6/COM3

CR/LDUAL+DUM/H:16/RES

CR/LWAL+DUM/H:10/RES

SR/LFM+DUM/H:1/IND3

CR/LFINF+DUH/H:3/IL:B/RES

CR/LFINF+DUH/H:4/IL:B/RES

CR/LWAL+DUM/H:9/RES

MCF/LWAL+DUM/H:1/RES

CR/LFINF+DUL/HBET:6-

10/IL:B/RES

MCF/LWAL+DUL/H:1/COM5

CR/LFINF+DUH/HBET:1-3/COM01

MR/LWAL+DUM/H:2/IL:M/RES

MUR+ADO/LWAL+DNO/H:1/COM02

CR/LWAL+DUM/HBET:7-10/COM3

CR+PC/LFM+DUM/HBET:1-3/COM2

MUR/LWAL+DNO/H:5/RES

MR/LWAL+DUH/H:2/RES

SL/LFM+DUM/H:1/IND3

CR/LFINF+DUL/HBET:6-

CR/LWAL+DUM/H:8/RES

10/IL:A/RES

CR/LFINF+DUL/HBET:1-3/COM02

CR/LFINF+DUL/HBET:1-3/COM2

CR+PC/LFM+DUM/HBET:1-3/COM5

MCF/LWAL+DUL/H:2/COM2

10/IL:M/RES

MCF/LWAL+DUH/H:1/IL:M/RES

10/IL:A/RES

10/IL:M/RES

10/IL:M/RES

10/IL:M/RES

3/COM01

CR/LWAL+DUM/H:6/RES

MCF/LWAL+DUM/H:2/RES

CR/LFINF+DUM/H:7/RES

CR/LFINF+DUM/H:3/RES

CR/LFINF+DUM/H:4/RES

UNK/RES

CR/LWAL+DUH/HBET:7-10/COM6

\$4,531.5M

\$4,466.9M

\$4,398.7M

\$4,371.6M

\$4,318.9M

\$4,162.4M

\$4,116.9M

\$4,088.4M

\$4,083.8M

\$4,040.6M

\$3,879.3M

\$3,867.5M

\$3,865.6M

\$3,737.0M

\$3,602.7M

\$3,519.2M

\$3,498.2M

\$3,434.2M

\$3,383.9M

\$3,307.6M

\$3,290.3M

\$3.184.3M

\$3,133.4M

\$3,123.0M

\$3,092.6M

\$3,043.8M

\$3,010.6M

\$3,006.4M

\$2,970.4M

\$2,869.0M

\$2,847.1M

\$2,767.3M

\$2,662.5M

\$2,644.8M

\$2,603.2M

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\$2,543.2M

\$2,536.1M

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\$2,429.3M

\$2,408.0M

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\$1,884.1M

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\$1,777.8M

\$1.761.2M

\$1.745.1M

\$1,726.9M

\$1,718.4M

\$1,716.6M

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\$1,636.2M

\$1,624.2M

\$1,608.1M

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\$1,344.8M

\$1,332.7M

\$1,294.5M

\$1,282.5M

\$1,258.6M

\$1,244.3M

\$1,199.1M

\$1,180.9M

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\$992.6M

\$985.7M

\$967.2M

\$967.1M

\$964.0M

\$962.8M

\$959.8M

\$958.9M

\$955.2M

\$950.8M

15,288

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5.376

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