NBA dataset analyse corrélation des variables sur les 5 derniers matchs

-> NOTEBOOKS 5 & 5bis

ATLANTIC

Boston Celtics ☑
Profile Stats Schedule ☑ Tickets ☑

Brooklyn Nets ☑
Profile Stats Schedule ☑ Tickets ☑

New York Knicks ☑
Profile Stats Schedule ☑ Tickets ☑

Philadelphia 76ers ☑
Profile Stats Schedule ☑ Tickets ☑

Toronto Raptors ☑
Profile Stats Schedule ☑ Tickets ☑

CENTRAL

Chicago Bulls ☑
Profile Stats Schedule ☑ Tickets ☑

Cleveland Cavaliers ☑
Profile Stats Schedule ☑ Tickets ☑

Detroit Pistons ☑
Profile Stats Schedule ☑ Tickets ☑

Indiana Pacers ☑
Profile Stats Schedule ☑ Tickets ☑

Milwaukee Bucks ☑
Profile Stats Schedule ☑ Tickets ☑

SOUTHEAST

Atlanta Hawks ☑
Profile Stats Schedule ☑ Tickets ☑

Charlotte Hornets ☑
Profile Stats Schedule ☑ Tickets ☑

Miami Heat ☑
Profile Stats Schedule ☑ Tickets ☑

Orlando Magic ☑
Profile Stats Schedule ☑ Tickets ☑

Washington Wizards ☑
Profile Stats Schedule ☑ Tickets ☑

NORTHWEST

Denver Nuggets ☑
Profile Stats Schedule ☑ Tickets ☑

Minnesota Timberwolves ☑
Profile Stats Schedule ☑ Tickets ☑

Oklahoma City Thunder ☑
Profile Stats Schedule ☑ Tickets ☑

Portland Trail Blazers ☑
Profile Stats Schedule ☑ Tickets ☑

Utah Jazz ☑
Profile Stats Schedule ☑ Tickets ☑

PACIFIC

Golden State Warriors ☑
Profile Stats Schedule ☑ Tickets ☑

LA Clippers ☑
Profile Stats Schedule ☑ Tickets ☑

Los Angeles Lakers ☑
Profile Stats Schedule ☑ Tickets ☑

Phoenix Suns ☑
Profile Stats Schedule ☑ Tickets ☑

Sacramento Kings ☑
Profile Stats Schedule ☑ Tickets ☑

SOUTHWEST

Dallas Mavericks ☑
Profile Stats Schedule ☑ Tickets ☑

Houston Rockets ☑
Profile Stats Schedule ☑ Tickets ☑

Memphis Grizzlies ☑
Profile Stats Schedule ☑ Tickets ☑

New Orleans Pelicans ☑
Profile Stats Schedule ☑ Tickets ☑

San Antonio Spurs ☑
Profile Stats Schedule ☑ Tickets ☑

https://www.nba.com/teams

TEAMS NBA -> **NAME vs ABREVIATION**

Notebook 4

COMPARATIF STATISTIQUES HOME vs. AWAY

RELATIVE STATS COMPARATIVE HOME vs AWAY
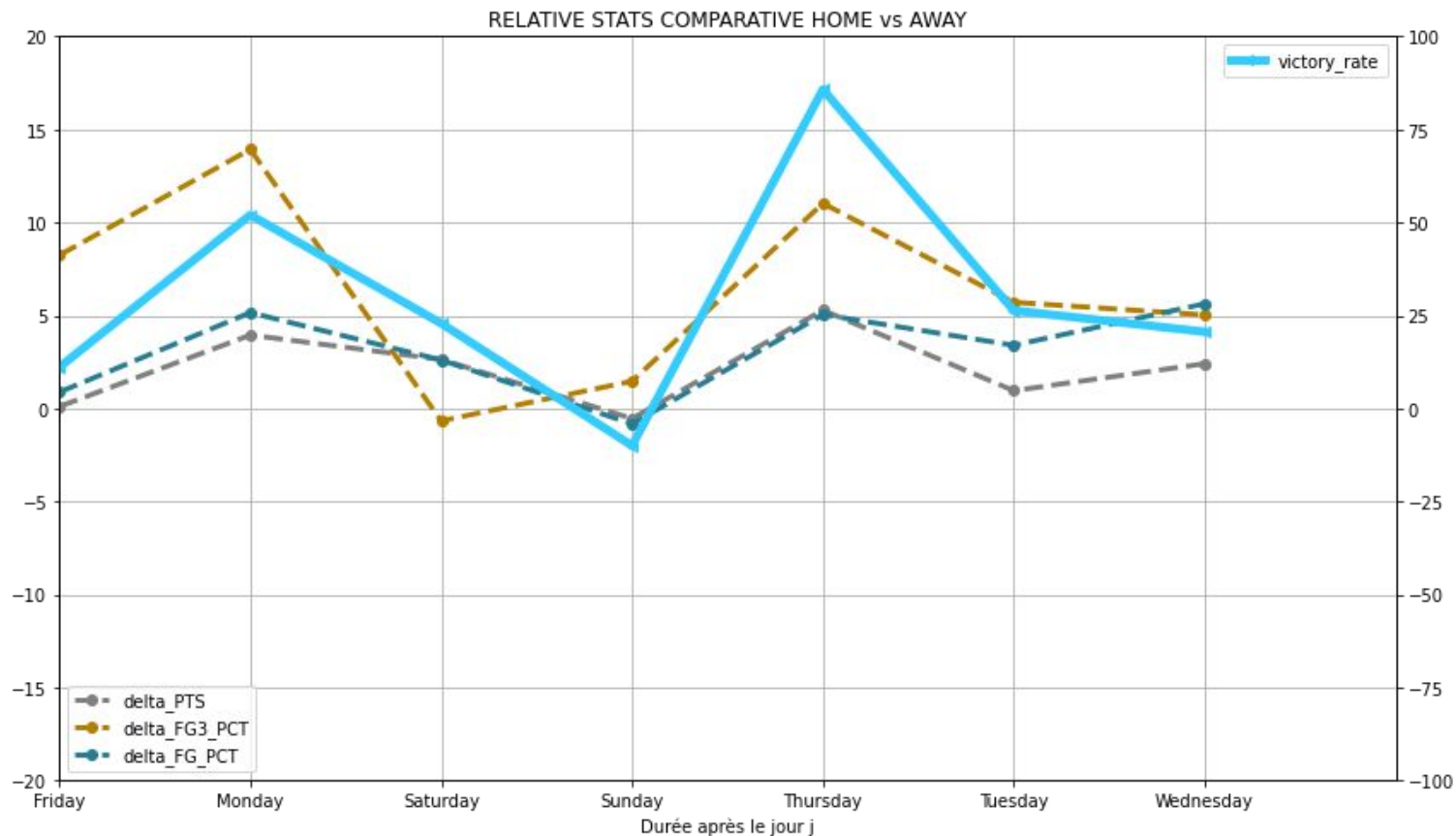
Notebooks 5 & 5 bis : Reconstitution d'un nouveau DataFrame de toutes les statistiques moyennes par équipe des 5 derniers matchs -> Stats at Home & Stats away

| team	WL_HOME	MIN_HOME	FGM_HOME	FGA_HOME	FG_PCT_HOME	FG3M_HOME	FG3A_HOME	FG3_PCT_HOME	FTM_HOME	FTA_HOME	FT_PCT_HOME	OREB_HOME	DREB_HOME	REB_HOME	AST_HOME	STL_HOME	BLK_HOME	TOV_HOME	PF_HOME	PTS_HOME	PLUS_MINUS_HOME
ATL	1.000000	240.000000	46.166667	89.000000	0.521000	12.333333	31.166667	0.391000	19.166667	23.333333	0.826167	9.500000	41.500000	51.000000	27.166667	6.833333	5.333333	11.333333	18.166667	123.833333	16.333333
BKN	0.833333	240.000000	43.166667	86.166667	0.504167	13.166667	32.166667	0.416500	17.500000	22.166667	0.776167	7.166667	37.000000	44.166667	28.333333	7.000000	6.666667	10.500000	18.166667	117.000000	5.833333
BOS	0.333333	244.166667	44.666667	92.333333	0.486000	16.000000	40.166667	0.406667	18.333333	23.333333	0.786167	10.500000	32.166667	42.666667	27.833333	8.333333	6.000000	14.000000	23.333333	123.666667	-2.666667
CHA	0.166667	240.000000	39.833333	88.333333	0.451167	12.000000	35.000000	0.343333	15.666667	21.666667	0.713500	11.000000	33.166667	44.166667	27.166667	8.166667	3.666667	14.833333	18.333333	107.333333	-8.500000
CHI	0.166667	240.000000	39.833333	88.333333	0.451167	12.000000	35.000000	0.343333	15.666667	21.666667	0.713500	11.000000	33.166667	44.166667	27.166667	8.166667	3.666667	14.833333	18.333333	107.333333	-8.500000
CLE	0.166667	244.166667	36.166667	85.833333	0.424500	13.000000	33.500000	0.385167	19.833333	26.333333	0.756000	10.333333	34.000000	44.333333	24.666667	5.333333	3.333333	15.000000	14.333333	105.166667	-16.166667
DAL	0.833333	240.000000	41.333333	87.666667	0.471000	13.333333	37.666667	0.351667	18.333333	23.333333	0.776167	10.166667	33.500000	43.666667	23.500000	7.166667	3.833333	11.333333	20.500000	114.333333	5.833333
DEN	0.847592	200.000000	39.666667	80.666667	0.509000	11.500000	31.500000	0.381833	17.500000	21.000000	0.859167	8.000000	32.000000	40.000000	23.333333	8.500000	4.833333	11.833333	17.333333	108.333333	14.333333
DET	0.166667	240.000000	38.000000	81.833333	0.464500	9.666667	30.333333	0.332000	15.000000	21.166667	0.713833	7.000000	33.333333	40.333333	22.500000	5.666667	5.000000	15.500000	18.333333	100.666667	-7.666667
GSW	0.618980	160.000000	35.666667	70.500000	0.506833	13.166667	33.666667	0.381500	14.333333	17.333333	0.828667	7.000000	28.666667	35.666667	24.333333	5.333333	1.666667	10.500000	15.666667	98.833333	13.000000
HOU	0.423796	230.000000	40.500000	88.166667	0.458833	13.166667	39.166667	0.323667	16.833333	23.333333	0.726167	11.333333	34.000000	45.333333	23.833333	6.666667	4.833333	16.666667	19.500000	111.000000	-10.500000
IND	0.333333	244.166667	45.500000	92.666667	0.492333	11.333333	31.833333	0.350500	15.833333	19.333333	0.818000	8.166667	34.333333	42.500000	30.666667	8.833333	5.166667	14.166667	19.333333	118.166667	-2.000000
LAC	0.528517	160.000000	29.333333	62.000000	0.477333	11.333333	26.000000	0.434667	11.000000	13.833333	0.801167	5.333333	27.333333	32.666667	19.333333	4.166667	1.666667	10.833333	13.000000	81.000000	3.000000
LAL	0.618980	140.000000	25.666667	53.333333	0.482667	7.000000	18.500000	0.367833	11.666667	15.333333	0.749833	6.500000	21.666667	28.166667	16.333333	4.166667	3.666667	11.000000	12.333333	70.000000	0.666667
MEM	0.833333	240.000000	41.000000	89.833333	0.457667	12.333333	34.833333	0.353833	16.833333	22.666667	0.773167	11.500000	37.333333	48.833333	28.166667	7.666667	8.500000	12.500000	15.833333	111.166667	7.333333
MIA	0.666667	240.000000	39.833333	83.500000	0.476833	12.333333	34.333333	0.358000	18.666667	22.000000	0.863167	8.833333	31.500000	40.333333	24.833333	8.500000	2.833333	13.000000	18.000000	110.666667	1.500000
MIL	1.000000	240.000000	46.666667	94.500000	0.496000	14.500000	37.500000	0.382500	17.666667	23.500000	0.730667	11.333333	40.166667	51.500000	24.500000	7.000000	4.833333	13.333333	19.000000	125.500000	7.333333
MIN	0.333333	244.166667	43.666667	93.166667	0.468500	15.333333	41.000000	0.373000	21.333333	29.000000	0.743000	13.833333	33.000000	46.833333	29.166667	8.500000	4.666667	13.666667	21.833333	124.000000	-1.333333
NOP	0.333333	240.000000	41.833333	87.500000	0.479500	10.333333	27.333333	0.375000	17.833333	26.166667	0.687167	10.000000	36.666667	46.666667	25.000000	8.333333	3.333333	16.500000	16.333333	111.833333	-2.000000
NYK	0.833333	244.166667	40.500000	84.333333	0.481167	13.833333	31.000000	0.447833	15.000000	17.500000	0.852833	6.833333	36.333333	43.166667	23.166667	6.166667	5.833333	10.166667	18.000000	109.833333	7.500000
OKC	0.166667	240.000000	39.666667	94.666667	0.421833	9.500000	31.333333	0.309333	14.333333	20.666667	0.701167	15.166667	35.500000	50.666667	19.666667	5.500000	4.833333	15.500000	17.166667	103.166667	-14.833333
ORL	0.166667	240.000000	36.500000	89.333333	0.411333	10.000000	29.833333	0.340667	20.166667	24.833333	0.806667	9.666667	31.333333	41.000000	17.333333	7.000000	4.833333	11.166667	16.333333	103.166667	-22.000000
PHI	1.000000	240.000000	44.000000	91.000000	0.483500	14.166667	33.833333	0.412667	19.500000	23.833333	0.817167	11.166667	35.166667	46.333333	29.166667	8.833333	6.500000	11.000000	22.000000	121.666667	19.666667
PHX	0.528517	180.000000	34.500000	71.166667	0.488833	9.333333	26.166667	0.363667	11.166667	13.500000	0.849167	8.000000	25.333333	33.333333	20.000000	5.500000	3.166667	8.166667	11.333333	89.500000	4.000000
POR	0.438054	180.000000	36.666667	80.166667	0.461167	13.333333	33.166667	0.398833	17.500000	20.666667	0.859667	10.500000	31.333333	41.833333	21.166667	5.500000	3.666667	8.666667	15.000000	104.166667	5.333333
SAC	0.528517	180.000000	34.000000	68.166667	0.496833	10.500000	25.333333	0.400500	9.833333	12.833333	0.755500	4.833333	26.333333	31.166667	21.500000	7.833333	4.500000	10.166667	15.000000	88.333333	0.500000
SAS	0.333333	244.166667	42.666667	88.833333	0.477167	10.166667	28.166667	0.360500	16.833333	21.333333	0.785833	9.166667	34.500000	43.666667	24.833333	6.333333	5.166667	12.333333	16.666667	112.333333	-4.166667

DASHBOARD __HOME__ -> ANALYSE MACRO

CONSEQUENCES

Last 5 games HOME -> TAUX DE VICTOIRE

EFFETS
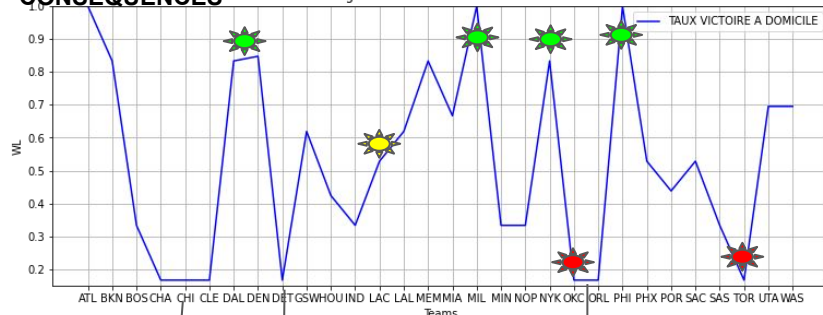
Last 5 games HOME -> POINTS MARQUES ET POINTS ENCAISSES
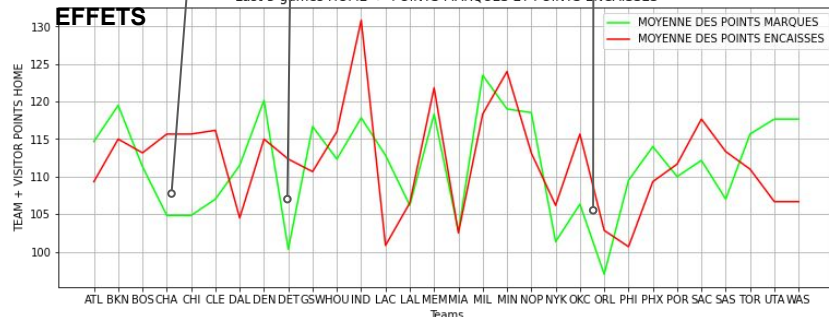
ROOT CAUSES 3

Last 5 games HOME -> INTERCEPTIONS + CONTRES

ROOT CAUSES 1
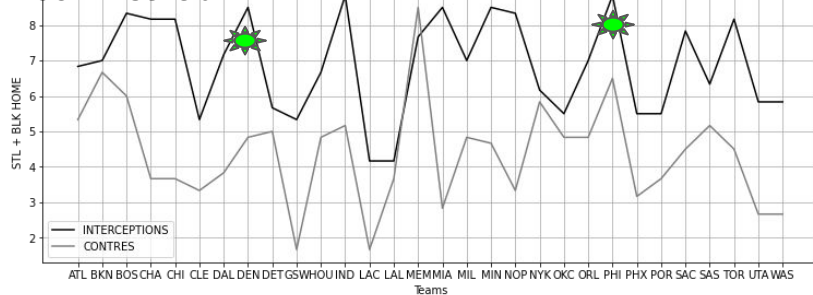
Last 5 games HOME -> TAUX REUSSITE AUX SHOOTS

ROOT CAUSES 2

Last 5 games HOME -> REB + PASSE DEC
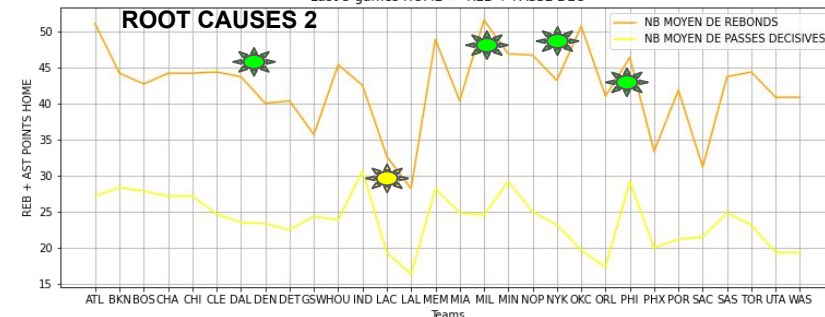
DASHBOARD AWAY -> ANALYSE MACRO

CONSEQUENCES

Last 5 games AWAY -> TAUX DE VICTOIRE

EFFETS

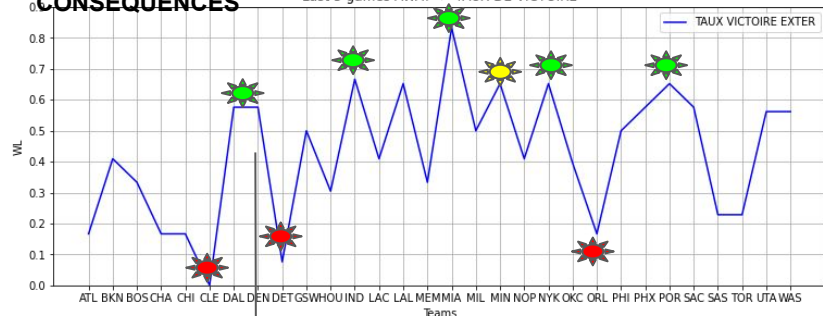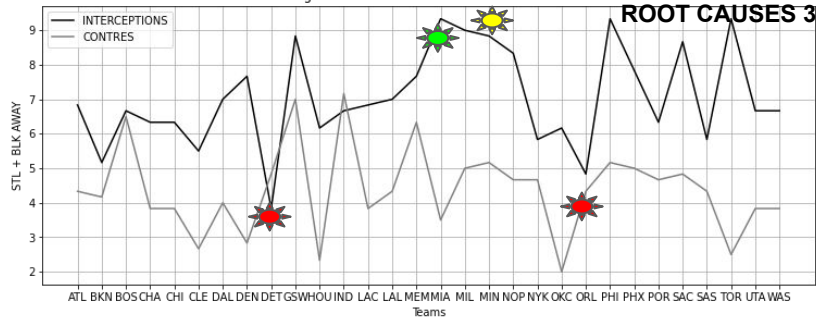Last 5 games AWAY -> POINTS MARQUES ET POINTS ENCAISSES

ROOT CAUSES 1

Last 5 games AWAY -> TAUX REUSSITE AUX SHOOTS

ROOT CAUSES 2

Last 5 games AWAY -> REB + PASSE DEC
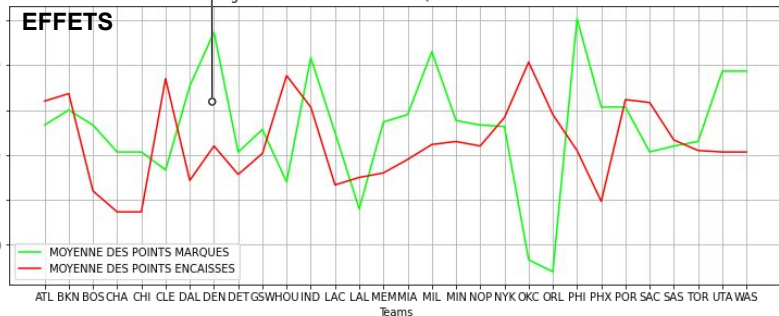
ROOT CAUSES 3

Last 5 games AWAY -> INTERCEPTIONS + CONTRES

|	WL_HOME	MIN_HOME	FGM_HOME	FGA_HOME	FG_PCT_HOME	FG3M_HOME	FG3A_HOME	FG3_PCT_HOME	FTM_HOME	FTA_HOME	FT_PCT_HOME	OREB_HOME	DREB_HOME	REB_HOME	AST_HOME	STL_HOME	BLK_HOME	TOV_HOME	PF_HOME	PTS_HOME	PLUS_MINUS_HOME	VIDEO_AVAILABLE_HOME	GAME_SEQUENCE
WL_HOME	1	-0.181955	0.189182	-0.151697	0.700314	0.323582	0.0038841	0.548166	-0.0105679	-0.161736	0.419456	-0.267041	0.245918	0.0676996	0.102818	0.0136293	0.22656	-0.492781	0.0012827	0.186862	0.871963	-0.204655	0.153262
MIN_HOME	-0.181955	1	0.797195	0.925394	-0.36869	0.292952	0.5273	-0.304734	0.720209	0.768576	-0.248285	0.566214	0.754349	0.791551	0.634735	0.60796	0.579619	0.517388	0.719191	0.796586	-0.337535	0.975321	-0.746717
FGM_HOME	0.189182	0.797195	1	0.878717	0.14529	0.554189	0.642194	-0.0616158	0.66133	0.644684	-0.0513087	0.494503	0.84639	0.82879	0.775394	0.676447	0.561164	0.328335	0.770412	0.972885	0.143879	0.733061	-0.566173
FGA_HOME	-0.151697	0.925394	0.878717	1	-0.340182	0.42232	0.677828	-0.337078	0.761623	0.792752	-0.192226	0.738172	0.793202	0.892504	0.639358	0.632061	0.555612	0.480216	0.755134	0.886022	-0.249655	0.882345	-0.66162
FG_PCT_HOME	0.700314	-0.36869	0.14529	-0.340182	1	0.209226	-0.136655	0.57014	-0.272793	-0.378874	0.332486	-0.543961	0.0191771	-0.215205	0.17939	0.0354574	-0.0454029	-0.361973	-0.0579778	0.0772014	0.82045	-0.424864	0.283298
FG3M_HOME	0.323582	0.292952	0.554189	0.42232	0.209226	1	0.82759	0.41624	0.478992	0.396822	0.160254	0.290188	0.449383	0.451686	0.520292	0.335574	0.159919	0.0414566	0.570816	0.671514	0.342411	0.248628	-0.363692
FG3A_HOME	0.0038841	0.5273	0.642194	0.677828	-0.136655	0.82759	1	-0.155929	0.609901	0.60696	-0.0627488	0.624785	0.498873	0.628982	0.533484	0.470181	0.201318	0.365008	0.71806	0.739611	-0.0040433	0.466007	-0.475175
FG3_PCT_HOME	0.548166	-0.304734	-0.0616158	-0.337078	0.57014	0.41624	-0.155929	1	-0.139816	-0.281738	0.403744	-0.51768	-0.0054507	-0.22218	0.0503566	-0.156902	-0.0160189	-0.521692	-0.141059	-0.0131124	0.594105	-0.293796	0.102183
FTM_HOME	-0.0105679	0.720209	0.66133	0.761623	-0.272793	0.478992	0.609901	-0.139816	1	0.93919	0.0471578	0.594269	0.601829	0.691584	0.533672	0.527066	0.37621	0.274268	0.657612	0.788817	-0.108593	0.700554	-0.596725
FTA_HOME	-0.161736	0.768576	0.644684	0.792752	-0.378874	0.396822	0.60696	-0.281738	0.93919	1	-0.284143	0.697748	0.630152	0.755956	0.535566	0.508317	0.367917	0.514668	0.64845	0.750047	-0.268921	0.760826	-0.576328
FT_PCT_HOME	0.419456	-0.248285	-0.0513087	-0.192226	0.332486	0.160254	-0.0627488	0.403744	0.0471578	-0.284143	1	-0.33897	-0.17496	-0.271104	-0.0585504	-0.0163309	-0.0429588	-0.721443	-0.118458	-0.0023876	0.503383	-0.296554	0.0901395
OREB_HOME	-0.267041	0.566214	0.494503	0.738172	-0.543961	0.290188	0.624785	-0.51768	0.594269	0.697748	-0.33897	1	0.461494	0.759725	0.299281	0.3437	0.267019	0.478144	0.499886	0.54442	-0.307535	0.565822	-0.340391
DREB_HOME	0.245918	0.754349	0.84639	0.793202	0.0191771	0.449383	0.498873	-0.0054507	0.601829	0.630152	-0.17496	0.461494	1	0.927468	0.576825	0.373585	0.526801	0.378751	0.515884	0.829989	0.106502	0.728508	-0.553404
REB_HOME	0.0676996	0.791551	0.82879	0.892504	-0.215205	0.451686	0.628982	-0.22218	0.691584	0.755956	-0.271104	0.759725	0.927468	1	0.548929	0.418682	0.498666	0.479133	0.58881	0.837807	-0.0515536	0.772445	-0.549088
AST_HOME	0.102818	0.634735	0.775394	0.639358	0.17939	0.520292	0.533484	0.0503566	0.533672	0.535566	-0.0585504	0.299281	0.576825	0.548929	1	0.700521	0.496413	0.288591	0.675539	0.773077	0.179141	0.601873	-0.583921
STL_HOME	0.0136293	0.60796	0.676447	0.632061	0.0354574	0.335574	0.470181	-0.156902	0.527066	0.508317	-0.0163309	0.3437	0.373585	0.418682	0.700521	1	0.424882	0.283468	0.704461	0.670196	0.0442258	0.522713	-0.379062
BLK_HOME	0.22656	0.579619	0.561164	0.555612	-0.0454029	0.159919	0.201318	-0.0160189	0.37621	0.367917	-0.0429588	0.267019	0.526801	0.498666	0.496413	0.424882	1	0.0438313	0.484929	0.523834	0.0591651	0.55916	-0.378112
TOV_HOME	-0.492781	0.517388	0.328335	0.480216	-0.361973	0.0414566	0.365008	-0.521692	0.274268	0.514668	-0.721443	0.478144	0.378751	0.479133	0.288591	0.283468	0.0438313	1	0.375483	0.310793	-0.531713	0.498838	-0.358683
PF_HOME	0.0012827	0.719191	0.770412	0.755134	-0.0579778	0.570816	0.71806	-0.141059	0.657612	0.64845	-0.118458	0.499886	0.515884	0.58881	0.675539	0.704461	0.484929	0.375483	1	0.805405	-0.0112049	0.685358	-0.599227
PTS_HOME	0.186862	0.796586	0.972885	0.886022	0.0772014	0.671514	0.739611	-0.0131124	0.788817	0.750047	-0.0023876	0.54442	0.829989	0.837807	0.773077	0.670196	0.523834	0.310793	0.805405	1	0.134062	0.738019	-0.60912
PLUS_MINUS_HOME	0.871963	-0.337535	0.143879	-0.249655	0.82045	0.342411	-0.0040433	0.594105	-0.108593	-0.268921	0.503383	-0.307535	0.106502	-0.0515536	0.179141	0.0442258	0.0591651	-0.531713	-0.0112049	0.134062	1	-0.37353	0.237831
VIDEO_AVAILABLE_HOME	-0.204655	0.975321	0.733061	0.882345	-0.424864	0.248628	0.466007	-0.293796	0.700554	0.760826	-0.296554	0.565822	0.728508	0.772445	0.601873	0.522713	0.55916	0.498838	0.685358	0.738019	-0.37353	1	-0.762296
GAME_SEQUENCE	0.153262	-0.746717	-0.566173	-0.66162	0.283298	-0.363692	-0.475175	0.102183	-0.596725	-0.576328	0.0901395	-0.340391	-0.553404	-0.549088	-0.583921	-0.379062	-0.378112	-0.358683	-0.599227	-0.60912	0.237831	-0.762296	1
PTS_PAINT_HOME	-0.118469	0.832242	0.830231	0.849465	-0.141047	0.196781	0.482249	-0.436093	0.560866	0.668958	-0.409193	0.606438	0.736645	0.795528	0.690437	0.622938	0.631379	0.547468	0.69085	0.76984	-0.182148	0.811599	-0.535825
PTS_2ND_CHANCE_HOME	-0.29752	0.681776	0.514232	0.757773	-0.569871	0.199759	0.50372	-0.466375	0.61929	0.706613	-0.31597	0.821608	0.537836	0.740495	0.351696	0.270483	0.240135	0.422306	0.456887	0.550723	-0.362051	0.704846	-0.517042
PTS_FB_HOME	0.15947	0.370901	0.519646	0.433277	0.121949	0.330578	0.314999	0.0621147	0.435817	0.41735	0.0002918	0.166683	0.405287	0.367396	0.699317	0.630162	0.49042	0.117914	0.435871	0.533098	0.223668	0.36245	-0.300551
LARGEST_LEAD_HOME	0.901945	-0.245759	0.125957	-0.207216	0.690325	0.309657	-0.0433844	0.597727	-0.0188642	-0.208618	0.548032	-0.287176	0.134127	-0.0227249	0.147689	0.0697039	0.103983	-0.580624	-0.022724	0.136235	0.912503	-0.277623	0.213587
LEAD_CHANGES_HOME	-0.184894	0.35025	0.291569	0.331798	-0.132753	0.220728	0.223473	0.0127482	0.254787	0.220333	0.104084	0.173543	0.261939	0.265134	0.36879	0.0192492	0.323325	0.133212	0.0975974	0.306881	-0.192354	0.335136	-0.426718
TIMES_TIED_HOME	-0.116472	0.380522	0.304669	0.351946	-0.135593	0.310822	0.3972	-0.100332	0.417237	0.439318	-0.112747	0.374231	0.301171	0.378473	0.218351	0.0326651	-0.0285741	0.277915	0.19807	0.367398	-0.200336	0.36239	-0.450349

HOME -> ANALYSE MICRO DES CORRÉLATIONS - TESTS HYPOTHÈSE- P VALUES

	WL_HOME	MIN_HOME	FGM_HOME	FGA_HOME	FG_PCT_HOME	FG3M_HOME	FG3A_HOME	FG3_PCT_HOME	FTM_HOME	FTA_HOME	FT_PCT_HOME	OREB_HOME	DREB_HOME	REB_HOME	AST_HOME	STL_HOME	BLK_HOME	TOV_HOME	PF_HOME	PTS_HOME	PLUS_MINUS_HOME	VIDEO_AVAILABLE_HOME	GAME_SEQUENCE
WL_HOME	0	0.335885	0.316711	0.423585	1.64e-05	0.0811066	0.983748	0.0017126	0.9558	0.393178	0.0210321	0.153708	0.190218	0.722247	0.588741	0.943014	0.228619	0.0056641	0.994633	0.322789	0	0.277989	0.418759
MIN_HOME	0.335885	0	1e-07	0	0.0449793	0.116165	0.0027517	0.10155	7.2e-06	7e-07	0.18585	0.0011079	1.5e-06	2e-07	0.0001649	0.0003656	0.0007887	0.0034116	7.5e-06	1e-07	0.0681291	0	2.1e-06
FGM_HOME	0.316711	1e-07	0	0	0.443647	0.001485	0.0001303	0.746354	6.92e-05	0.0001203	0.787726	0.0054731	0	0	5e-07	4.07e-05	0.0012546	0.0764889	6e-07	0	0.448133	4.1e-06	0.0011091
FGA_HOME	0.423585	0	0	0	0.0658599	0.0200818	3.87e-05	0.0685265	1e-06	2e-07	0.30884	3.2e-06	2e-07	2e-07	0.0001426	0.0001792	0.0014352	0.0072366	1.4e-06	0	0.183356	6.85e-05	6.85e-05
FG_PCT_HOME	1.64e-05	0.0449793	0.443647	0.0658599	0	0.267163	0.47148	0.0010045	0.144706	0.0389524	0.0726239	0.001889	0.919881	0.253418	0.342858	0.852434	0.811697	0.0493453	0.760884	0.685119	0	0.0192677	0.12926
FG3M_HOME	0.0811066	0.116165	0.001485	0.0200818	0.267163	0	0	0.0221431	0.0074079	0.029919	0.397587	0.119808	0.0127279	0.0122232	0.0032055	0.0698483	0.398587	0.827809	0.0009875	4.85e-05	0.0639955	0.185224	0.0481976
FG3A_HOME	0.983748	0.0027517	0.0001303	3.87e-05	0.47148	0	0	0.41061	0.000346	0.0003761	0.741846	0.0002236	0.0050131	0.0001969	0.0023984	0.008745	0.286072	0.0473327	7.9e-06	3e-06	0.983082	0.0094463	0.0079642
FG3_PCT_HOME	0.0017126	0.10155	0.746354	0.0685265	0.0010045	0.0221431	0.41061	0	0.461186	0.131474	0.0269261	0.0033904	0.977194	0.237984	0.791578	0.407662	0.933044	0.00311	0.457171	0.945172	0.0005372	0.115068	0.591056
FTM_HOME	0.9558	7.2e-06	6.92e-05	1e-06	0.144706	0.0074079	0.000346	0.461186	0	0	0.804555	0.0005348	0.0004344	2.31e-05	0.0023883	0.0027659	0.0404626	0.14246	7.86e-05	2e-07	0.56786	1.63e-05	0.0005002
FTA_HOME	0.393178	7e-07	0.0001203	2e-07	0.0389524	0.029919	0.0003761	0.131474	0	0	0.128072	1.82e-05	0.00019	1.4e-06	0.0022887	0.0041304	0.0454653	0.0036149	0.0001065	1.8e-06	0.150723	1.1e-06	0.0008585
FT_PCT_HOME	0.0210321	0.18585	0.787726	0.30884	0.0726239	0.397587	0.741846	0.0269261	0.804555	0.128072	0	0.0668912	0.355103	0.147309	0.758592	0.931743	0.821668	6.8e-06	0.532985	0.990009	0.0045733	0.111541	0.635713
OREB_HOME	0.153708	0.0011079	0.0054731	3.2e-06	0.001889	0.119808	0.0002236	0.0033904	0.0005348	1.82e-05	0.0668912	0	0.0102573	1.1e-06	0.108131	0.0629364	0.153744	0.0075285	0.0049113	0.001869	0.0982885	0.0011188	0.0656837
DREB_HOME	0.190218	1.5e-06	0	2e-07	0.919881	0.0127279	0.0050131	0.977194	0.0004344	0.00019	0.355103	0.0102573	0	0	0.0008476	0.041996	0.0027821	0.039021	0.0035228	0	0.575379	5e-06	0.001513
REB_HOME	0.722247	2e-07	0	2e-07	0.253418	0.0122232	0.0001969	0.237984	2.31e-05	1.4e-06	0.147309	1.1e-06	0	0	0.0016822	0.0212951	0.0050341	0.007388	0.0006194	0	0.786735	6e-07	0.0016759
AST_HOME	0.588741	0.0001649	5e-07	0.0001426	0.342858	0.0032055	0.0023984	0.791578	0.0023883	0.0022887	0.758592	0.108131	0.0008476	0.0016822	0	1.63e-05	0.0052678	0.121952	4.2e-05	6e-07	0.343539	0.0004339	0.000705
STL_HOME	0.943014	0.0003656	4.07e-05	0.0001792	0.852434	0.0698483	0.008745	0.407662	0.0027659	0.0041304	0.931743	0.0629364	0.041996	0.0212951	1.63e-05	0	0.0192622	0.129021	1.39e-05	5.08e-05	0.816495	0.003042	0.0388475
BLK_HOME	0.228619	0.0007887	0.0012546	0.0014352	0.811697	0.398587	0.286072	0.933044	0.0404626	0.0454653	0.821668	0.153744	0.0027821	0.0050341	0.0052678	0.0192622	0	0.818105	0.0066081	0.0029687	0.756133	0.0013174	0.0393799
TOV_HOME	0.0056641	0.0034116	0.0764889	0.0072366	0.0493453	0.827809	0.0473327	0.00311	0.14246	0.0036149	6.8e-06	0.0075285	0.039021	0.007388	0.121952	0.129021	0.818105	0	0.0408826	0.0945959	0.0024954	0.0050166	0.0516028
PF_HOME	0.994633	7.5e-06	6e-07	1.4e-06	0.760884	0.0009875	7.9e-06	0.457171	7.86e-05	0.0001065	0.532985	0.0049113	0.0035228	0.0006194	4.2e-05	1.39e-05	0.0066081	0.0408826	0	1e-07	0.953139	2.93e-05	0.0004669
PTS_HOME	0.322789	1e-07	0	0	0.685119	4.85e-05	3e-06	0.945172	2e-07	1.8e-06	0.990009	0.001869	0	0	6e-07	5.08e-05	0.0029687	0.0945959	1e-07	0	0.480013	3.2e-06	0.0003538
PLUS_MINUS_HOME	0	0.0681291	0.448133	0.183356	0	0.0639955	0.983082	0.0005372	0.56786	0.150723	0.0045733	0.0982885	0.575379	0.786735	0.343539	0.816495	0.756133	0.0024954	0.953139	0.480013	0	0.0420288	0.205672
VIDEO_AVAILABLE_HOME	0.277989	0	4.1e-06	6.85e-05	0.0192677	0.185224	0.0094463	0.115068	1.63e-05	1.1e-06	0.111541	0.0011188	5e-06	6e-07	0.0004339	0.003042	0.0013174	0.0050166	2.93e-05	3.2e-06	0.0420288	0	1e-06
GAME_SEQUENCE	0.418759	2.1e-06	0.0011091	6.85e-05	0.12926	0.0481976	0.0079642	0.591056	0.0005002	0.0008585	0.635713	0.0656837	0.001513	0.0016759	0.000705	0.0388475	0.0393799	0.0516028	0.0004669	0.0003538	0.205672	1e-06	0
PTS_PAINT_HOME	0.532948	0	0	0	0.45721	0.297296	0.0069595	0.015993	0.0012638	5.31e-05	0.0247461	0.0003818	3.5e-06	1e-07	2.42e-05	0.0002363	0.00181	0.0017408	2.38e-05	1e-07	0.335365	1e-07	0.0022753
PTS_2ND_CHANCE_HOME	0.110323	3.35e-05	0.0036485	1.2e-06	0.0010113	0.289896	0.0045418	0.0093826	0.0002634	1.28e-05	0.0889445	0	0.002174	2.9e-06	0.0566683	0.148275	0.201184	0.0200865	0.0111447	0.0016125	0.0492929	1.37e-05	0.0034369
PTS_FB_HOME	0.399931	0.0436117	0.0032504	0.0167671	0.520898	0.0743813	0.0899841	0.744368	0.0160675	0.0217542	0.998779	0.37809	0.0262935	0.0457952	1.71e-05	0.0001899	0.005935	0.534884	0.0160529	0.0024193	0.234774	0.0490243	0.106571
LARGEST_LEAD_HOME	0	0.190513	0.507182	0.271889	2.43e-05	0.0958712	0.819929	0.0004866	0.921184	0.268586	0.001718	0.123875	0.479796	0.90512	0.436076	0.71436	0.584502	0.0007684	0.905124	0.472855	0	0.137446	0.257091
LEAD_CHANGES_HOME	0.328003	0.0577641	0.117977	0.0732544	0.484346	0.241144	0.235192	0.946693	0.174217	0.242008	0.584131	0.359073	0.162026	0.15678	0.0449165	0.919581	0.0813624	0.482825	0.607898	0.0990427	0.308513	0.0702372	0.0186919
TIMES_TIED_HOME	0.539925	0.038041	0.101626	0.0564804	0.474965	0.0945627	0.0297488	0.597831	0.0217934	0.0151429	0.553049	0.0416143	0.105816	0.0391767	0.246377	0.863943	0.880854	0.137016	0.294079	0.0457943	0.288477	0.0490647	0.0125142

HOME -> ANALYSE MICRO DES CORRÉLATIONS - TESTS HYPOTHÈSE - P VALUES

P VALUES < 0.05

# OBSERVATION DES P VALUES SIGNIFICATIVES DE CORRELATIONS ENTRE VARIABLES HOME
Concat_relevant_correlations = Concat_p_values[Concat_p_values < 0.05]
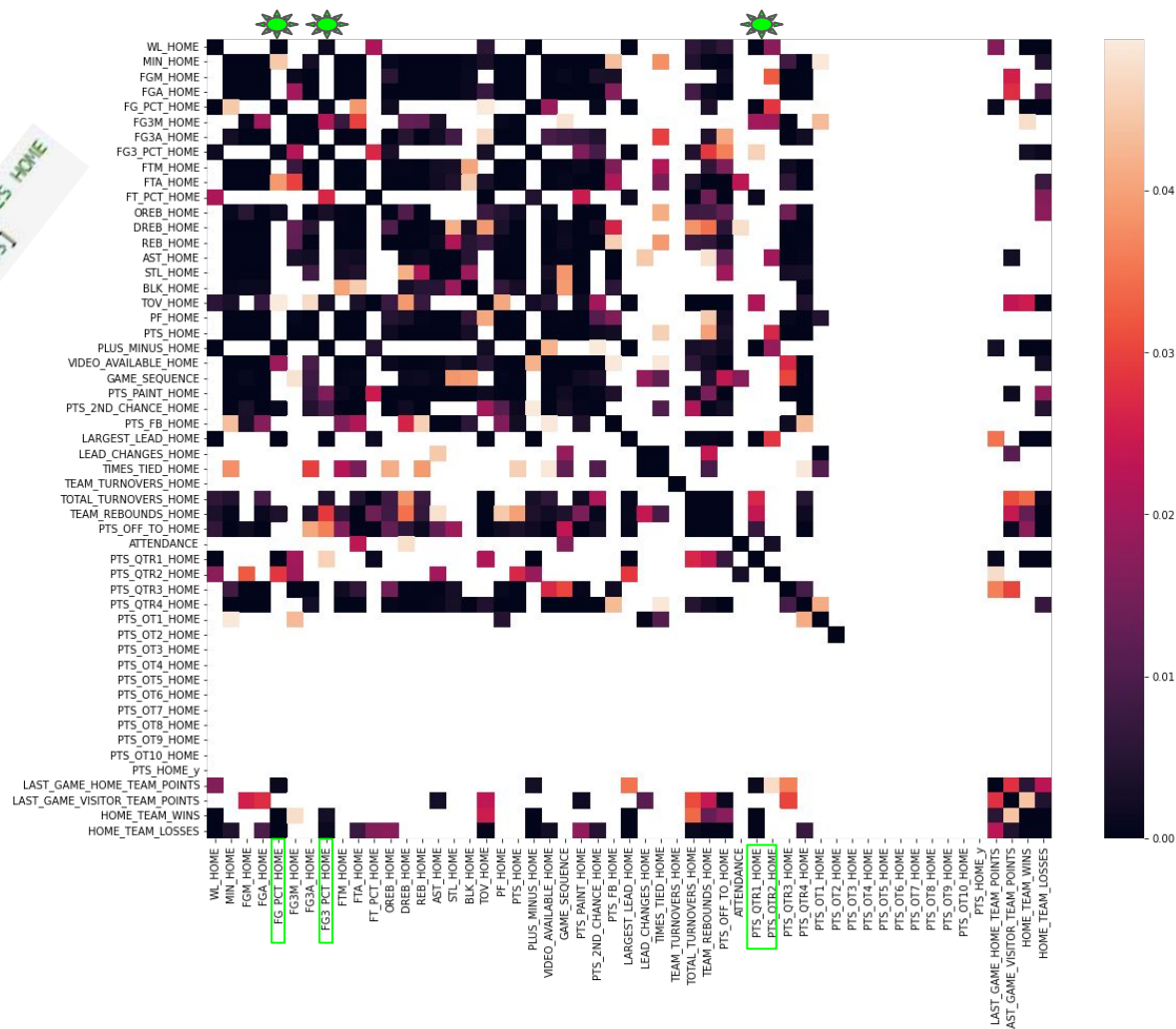
P VALUES < 0.00005

AWAY-> ANALYSE MICRO DES CORRÉLATIONS - TESTS HYPOTHÈSE - P VALUES

P VALUES < 0.00005
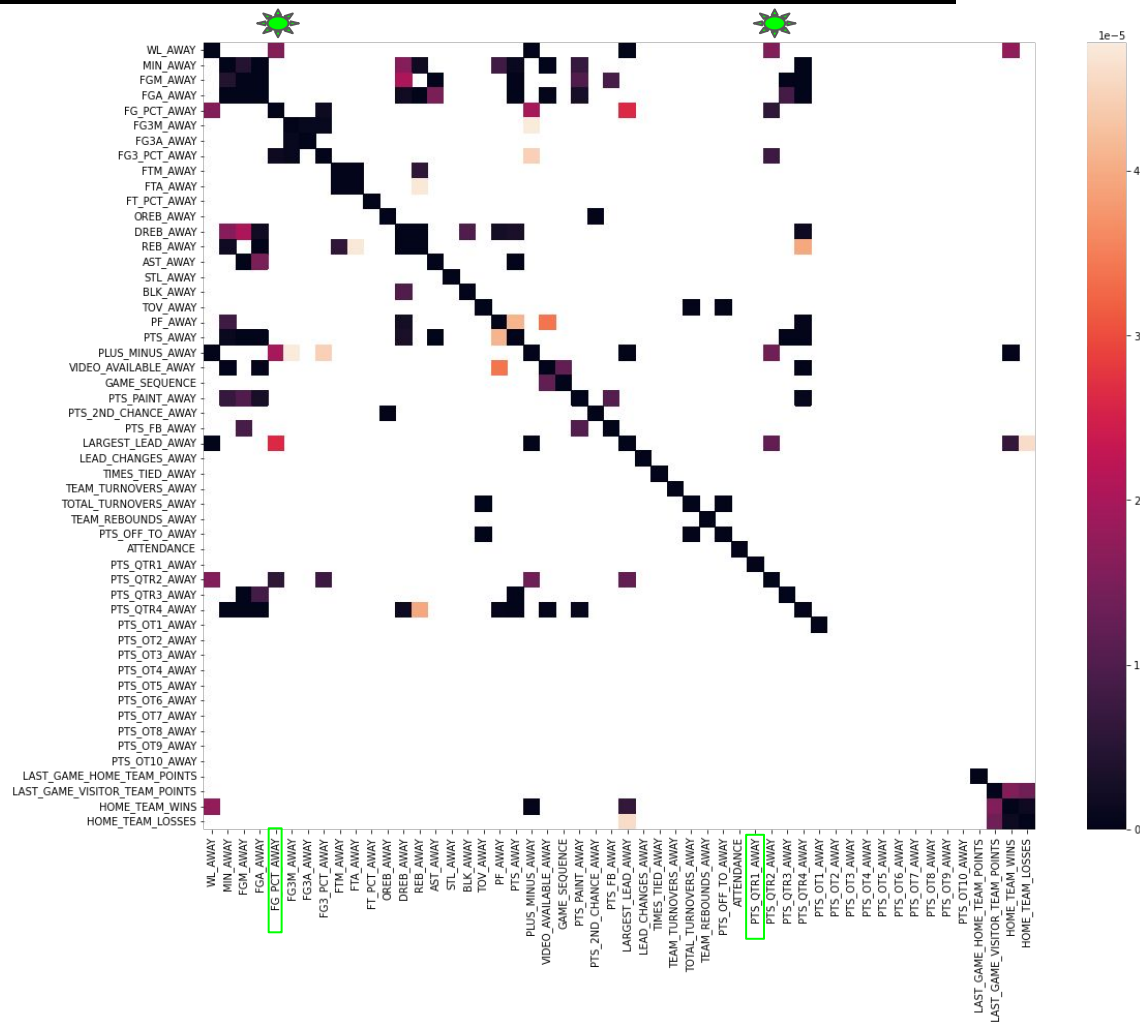
Conclusions des Notebooks 4 & 5

COMPARATIF STATISTIQUES HOME vs. AWAY

HOME vs AWAY -> tendances générales & confirmée SUR LES 5 DERNIERS MATCHS

RANG 1
-> Taux de victoire ↗
-> Nb points marqués ↗
-> Taux réussite global shoot ↗
-> Taux réussite 3pts shoot ↗↗
-> Nb de points QT1 + QT2

RANG 2
-> nb interceptions / steels
-> nb passes décisives / assists
-> nb contres / BLK (sauf les mercredi)
-> nb rebonds

+   INFLUENCE DU JOUR DE MATCH

VARIABLES NBA (1)

	%NaN données brutes
GAME_ID	❌ 0.00
SEASON_ID	0.00
TEAM_ID_HOME	0.00
TEAM_ABBREVIATION_HOME	❌ 0.00
TEAM_NAME_HOME	❌ 0.00
GAME_DATE	0.00
MATCHUP_HOME	❌ 0.00
WL_HOME	0.00
MIN_HOME	0.00
FGM_HOME	0.03
FGA_HOME	28.60
FG_PCT_HOME	28.66
FG3M_HOME	25.07
FG3A_HOME	33.50
FG3_PCT_HOME	34.12
FTM_HOME	0.03
FTA_HOME	4.86
FT_PCT_HOME	4.87
OREB_HOME	33.96
DREB_HOME	34.07
REB_HOME	29.00
AST_HOME	29.21
STL_HOME	33.83
BLK_HOME	33.49
TOV_HOME	33.54
PF_HOME	4.70
PTS_HOME	0.00
PLUS_MINUS_HOME	0.00
VIDEO_AVAILABLE_HOME	❌ 0.00
TEAM_ID_AWAY	0.00
TEAM_ABBREVIATION_AWAY	0.00

Préférable de conserver les 2

PASSAGE EN DATETIME !

WIN/LOOSE = WIN% ??

Minutes played

% of **points shots** (ALL)

% of made **shots (excluding** free throws)

% of made **3 points shots**

% of made **free throws**

 # offensif rebounds

 # defensif rebounds

# of rebounds

of **assist (passe décisives)**

Number of **steels (interceptions)**

Number of **Blocked shots (Contres)**

Turnovers **(info sur la profondeur du banc)**

Personnal Foul (**fautes**)

Number of points scored by home team

Légende

- ▭ (magenta) **HYP111021 : variable(s) cible**
- ▭ (bleu) **HYP111021 : variables métier les plus importantes**
- ▭ (bleu pointillé) **HYP111021 : variables métier secondaires**
- ❌ **HYP111021 : variable probablement à éliminer car n'apporte pas d'informations**
- ❌ **Analyse121021 : variable à éliminer car trop forte cardinalité**
- ❌ **HYP121021 : à éliminer pour simplifier encodage**

VARIABLES NBA (2)

Variable		Value
TEAM_NAME_AWAY	✗	0.00
MATCHUP_AWAY	✗	0.00
WL_AWAY		0.00
MIN_AWAY		0.00
FGM_AWAY		0.02
FGA_AWAY		28.60
FG_PCT_AWAY		28.66
FG3M_AWAY		25.07
FG3A_AWAY		33.50
FG3_PCT_AWAY		33.96
FTM_AWAY		0.02
FTA_AWAY		4.86
FT_PCT_AWAY		4.86
OREB_AWAY		33.96
DREB_AWAY		34.07
REB_AWAY		28.99
AST_AWAY		29.21
STL_AWAY		33.83
BLK_AWAY		33.49
TOV_AWAY		33.54
PF_AWAY		4.69
PTS_AWAY		0.00
PLUS_MINUS_AWAY		0.00
VIDEO_AVAILABLE_AWAY	✗	0.00
GAME_DATE_EST	✗	0.00
GAME_SEQUENCE		49.85
GAME_STATUS_ID	✗	0.00
GAME_STATUS_TEXT		50.73
GAMECODE	✗	0.00
HOME_TEAM_ID		0.00
VISITOR_TEAM_ID		0.00
SEASON		0.00

WIN/LOOSE = WIN% ??

Minutes played away

% of **points shots** (ALL)
% of made shots (**excluding free throws**)

% of made **3 points shots**

% of made **free throws**
# **offensif rebounds**
# **defensif rebounds**
# of **rebounds**
# of **assist (passe décisives)**
Number of **steels (interceptions)**
Number of **Blocked shots (Contres)**
Turnovers **(info sur la profondeur du banc)**
Personal Fouls **(fautes)**
Number of points scored by AWAY team
The point differential when a player or team is on the floor

Game's sequence

Légende

- ▭ **HYP111021 : variables métier secondaires**
- ▭ (dashed) **HYP111021 : variables métier les plus importantes**
- ▭ (orange) **HYP111021 : variables métier générale les plus importantes**
- ▭ (orange dashed) **HYP111021 : variables métier générale & secondaires**
- ✗ **HYP121021 : Variable SUPPOSEE doublon, à éliminer**

VARIABLES NBA (3)

Variable		Value
LIVE_PERIOD	✖	0.00
LIVE_PC_TIME	✖	99.03
NATL_TV_BROADCASTER_ABBREVIATION	✖	92.72
LIVE_PERIOD_TIME_BCAST	✖	0.00
WH_STATUS	✖	0.69
TEAM_CITY_HOME	✖	52.93
PTS_PAINT_HOME		52.93
PTS_2ND_CHANCE_HOME		52.93
PTS_FB_HOME		52.93
LARGEST_LEAD_HOME		52.93
LEAD_CHANGES_HOME		52.93
TIMES_TIED_HOME		52.93
TEAM_TURNOVERS_HOME	✖	52.93
TOTAL_TURNOVERS_HOME	✖	53.09
TEAM_REBOUNDS_HOME	✖	56.25
PTS_OFF_TO_HOME		56.73
TEAM_CITY_AWAY	✖	52.93
PTS_PAINT_AWAY		52.93
PTS_2ND_CHANCE_AWAY		52.93
PTS_FB_AWAY		52.93
LARGEST_LEAD_AWAY		52.93
LEAD_CHANGES_AWAY		52.93
TIMES_TIED_AWAY		52.93
TEAM_TURNOVERS_AWAY	✖	52.93
TOTAL_TURNOVERS_AWAY	✖	53.09
TEAM_REBOUNDS_AWAY	✖	56.25
PTS_OFF_TO_AWAY		56.73
LEAGUE_ID	✖	52.93
GAME_DATE_DAY	✖	0.11
ATTENDANCE		9.81
GAME_TIME		52.93
TEAM_CITY_NAME_HOME	✖	0.11

Annotations :

- Variable instructive sur la qualité du jeu offensif
- The percentage of points scored by a player or team that are from fast break opportunities
- changement d'avance est chaque fois qu'une équipe atteint une avance dans le jeu lorsque l'équipe leader précédente était l'adversaire
- prolongations
- The percentage of points scored by a player or team that are scored on the possession after forcing an opponent turnover
- Variables instructives sur la qualité du jeu offensif
- The percentage of points scored by a player or team that are from fast break opportunities
- changement d'avance est chaque fois qu'une équipe atteint une avance dans le jeu lorsque l'équipe leader précédente était l'adversaire
- prolongations
- The percentage of points scored by a player or team that are scored on the possession after forcing an opponent turnover

VARIABLES NBA (4)

Variable		Value
TEAM_NICKNAME_HOME	✗	0.11
TEAM_WINS_LOSSES_HOME		0.11
PTS_QTR1_HOME		1.94
PTS_QTR2_HOME		1.95
PTS_QTR3_HOME		2.01
PTS_QTR4_HOME		2.02
PTS_OT1_HOME		50.24
PTS_OT2_HOME		52.55
PTS_OT3_HOME		52.89
PTS_OT4_HOME		52.94
PTS_OT5_HOME	✗	82.79
PTS_OT6_HOME	✗	82.79
PTS_OT7_HOME	✗	82.79
PTS_OT8_HOME	✗	82.79
PTS_OT9_HOME	✗	82.79
PTS_OT10_HOME	✗	82.79
PTS_HOME_y	✗	0.80
TEAM_CITY_NAME_AWAY	✗	0.11
TEAM_NICKNAME_AWAY		0.11
TEAM_WINS_LOSSES_AWAY		0.11
PTS_QTR1_AWAY		1.93
PTS_QTR2_AWAY		1.95
PTS_QTR3_AWAY		2.01
PTS_QTR4_AWAY		2.01
PTS_OT1_AWAY		50.24
PTS_OT2_AWAY		52.55
PTS_OT3_AWAY		52.89
PTS_OT4_AWAY		52.94
PTS_OT5_AWAY	✗	82.79
PTS_OT6_AWAY	✗	82.79
PTS_OT7_AWAY	✗	82.79
PTS_OT8_AWAY	✗	82.79

COLONNE A FAIRE ÉVOLUER VERS UNE AUTRE COLONNE -> % victoire à domicile !!!

Team points in first quarter
Team points in 2nd quarter
Team points in 3rd quarter
Team points in 4th quarter

Points off Turnovers - nb of points scored by a player or team following an opponent's turnover

COLONNE A FAIRE ÉVOLUER VERS UNE AUTRE COLONNE -> % victoire à l'extérieur !!!

Team points in first quarter
Team points in 2nd quarter
Team points in 3rd quarter
Team points in 4th quarter

Points off Turnovers - nb of points scored by a player or team following an opponent's turnover

VARIABLES NBA (5)

PTS_OT9_AWAY	✗	82.79
PTS_OT10_AWAY	✗	82.79
LAST_GAME_ID	✗	1.07
LAST_GAME_DATE_EST		1.07
LAST_GAME_HOME_TEAM_ID		1.07
LAST_GAME_HOME_TEAM_CITY		1.07
LAST_GAME_HOME_TEAM_NAME		1.07
LAST_GAME_HOME_TEAM_ABBREVIATION		1.07
LAST_GAME_HOME_TEAM_POINTS		1.07
LAST_GAME_VISITOR_TEAM_ID		1.07
LAST_GAME_VISITOR_TEAM_CITY		1.07
LAST_GAME_VISITOR_TEAM_NAME		1.07
LAST_GAME_VISITOR_TEAM_CITY1		1.07
LAST_GAME_VISITOR_TEAM_POINTS		1.07
HOME_TEAM_WINS		0.11
HOME_TEAM_LOSSES		0.11
SERIES_LEADER	✗	0.11
VIDEO_AVAILABLE_FLAG	✗	0.11
PT_AVAILABLE	✗	0.11
PT_XYZ_AVAILABLE		0.11
HUSTLE_STATUS	✗	0.11
HISTORICAL_STATUS	✗	0.11

PASSAGE EN DATETIME !

COMMENTAIRE -> peut être important si on accorde importance au résultat du précédent match
ex : Chaine de Markov (MDP) -> t+1 dépend de t

CE NE SONT PAS LES VARIABLES CIBLES !

COMMENTAIRE -> peut être intéressant d'intégrer certains critères vidéo