

Business Intelligence

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Informatique
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Données

Schéma en constellation

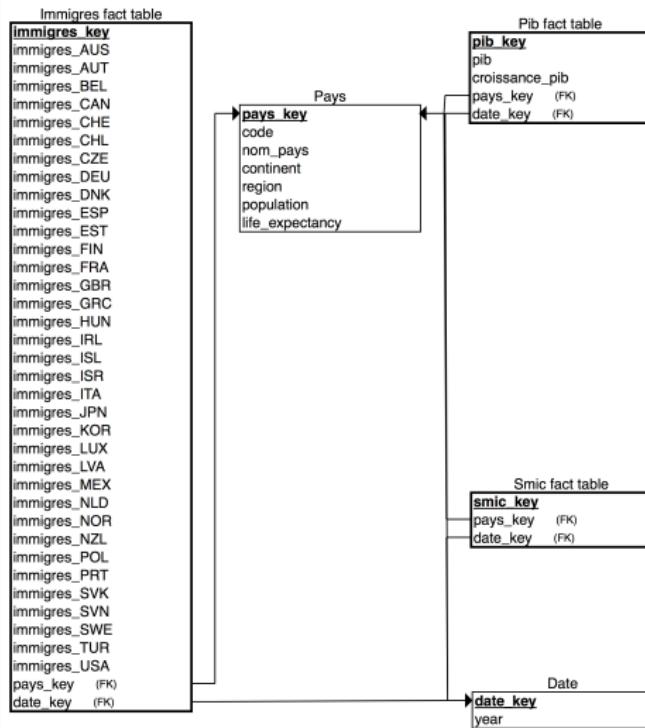


Schéma logique : Faits

- PIB(pib_key, #pays_key, #date_key, pib, croissance_pib)
- SMIC(smic_key, #pays_key, #date_key, smic)
- Immigres(immigres_key, #pays_key, #date_key,
immigres_AUS, immigres_AUT, immigres_BEL,
immigres_CAN, immigres_CHE, immigres_CHL,
immigres_CZE, immigres_DEU, immigres_DNK,
immigres_ESP, immigres_EST, immigres_FIN, immigres_FRA,
immigres_GBR, immigres_GRC, immigres_HUN, immigres_IRL,
immigres_ISL, immigres_ISR, immigres_ITA, immigres_JPN,
immigres_KOR, immigres_LUX, immigres_LVA,
immigres_MEX, immigres_NLD, immigres_NOR,
immigres_NZL, immigres_POL, immigres_PRT,
immigres_SVK, immigres SVN, immigres_SWE,
immigres_TUR, immigres_USA)

Schéma logique : Dimensions

- Date(date_key, year)
- Pays(pays_key, code, nom_pays, continent, region, population, life_expectancy)

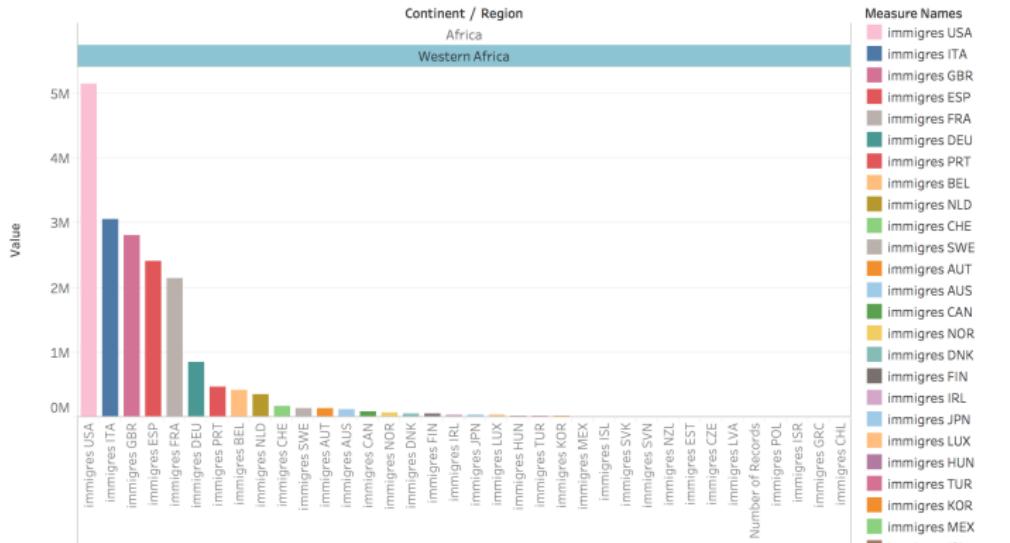
Cubes OLAP : Fait immigrés selon la dimension pays

Continent	Region	immigres CAN	immigres FRA	immigres JPN	immigres USA	Continent	Region	Nom Pays	immigres C..	immigres F..	immigres J..	immigres U..
Africa	Central Africa	31,810	1,430,263	4,704	644,317	Africa	Central Africa	Angola	2,565	100,075	155	0
	Eastern Africa	154,310	914,620	13,889	4,192,907		Cameroon	8,105	403,023	2,377	448,501	
	Northern Africa	186,755	11,322,569	16,176	2,473,151		Chad	235	74,900	58	0	
	Southern Africa	41,955	20,394	3,877	776,526		Congo	750	30,832	14	0	
	Western Africa	75,575	2,139,717	33,555	5,158,849		Congo, The Democratic Re..	1,655	369,453	150	80,083	
Asia	Eastern Asia	962,565	816,857	7,315,552	32,968,157	Africa	Equatorial Guinea	18,445	353,625	1,822	115,733	
	Middle East	276,935	1,975,109	33,513	7,879,060		Gabon	55	1,595	0	0	
	Southeast Asia	729,800	992,824	2,317,794	32,065,601		Sao Tome and Principe	0	95,713	126	0	
	Southern and Central Asia	1,071,765	750,895	548,810	28,892,167		Burundi	6,220	9,029	2	0	
Europe	Baltic Countries	15,555	35,255	3,089	494,447	Africa	Comoros	175	184,827	0	0	
	British Islands	565,075	1,030,806	98,422	7,185,214		Djibouti	1,330	25,711	0	0	
	Eastern Europe	403,470	1,146,582	73,326	11,451,061		Eritrea	7,750	7,004	146	296,243	
	Nordic Countries	36,235	131,176	20,086	1,135,389		Ethiopia	24,535	31,971	2,124	1,708,357	
	Southern Europe	585,740	6,440,554	36,538	8,146,576		Kenya	24,510	7,649	3,412	1,058,892	
	Western Europe	397,435	2,488,289	109,295	8,095,449		Madagascar	3,335	427,430	479	0	
North America	Caribbean	346,140	538,815	7,668	33,140,934	Africa	Malawi	610	593	333	0	
	Central America	151,635	85,964	16,035	153,970,307		Mauritius	13,160	166,623	435	0	
	North America	267,975	373,412	358,681	7,527,077		Mozambique	1,125	4,160	327	0	
Oceania	Australia and New Zealand	29,930	42,852	74,904	1,011,590	Africa	Rwanda	4,920	27,307	265	0	
	Melanesia	24,700	3,692	1,728	325,145		Seychelles	905	1,981	34	0	
	Micronesia	0	118	544	306,791		Somalia	22,250	11,696	38	638,573	
	Polynesia	200	657	1,057	200,357		Tanzania	19,465	2,645	2,216	156,441	
South America	South America	290,985	865,346	1,545,164	25,010,513	Africa	Uganda	11,745	2,280	2,850	154,495	
					Zambia	3,215	1,443	501	56,788			
					Zimbabwe	9,060	2,271	605	122,118			

Analyse

Analyse : West Africa Immigration

Sheet 1

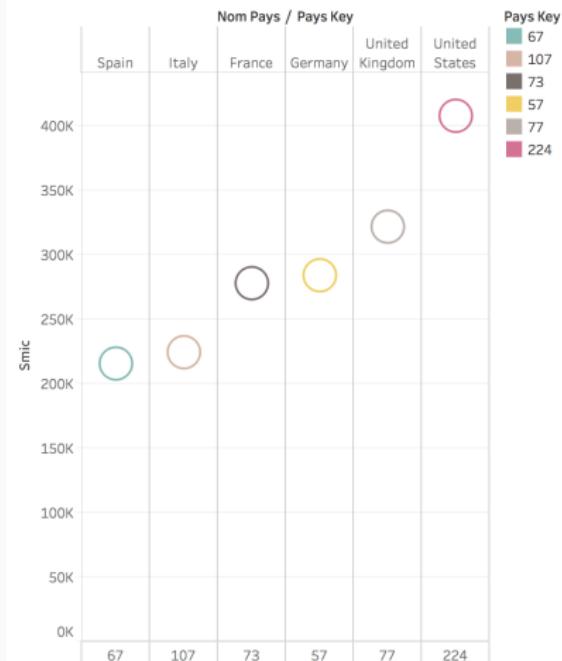


Number of Records, immigres AUS, immigres AUT, immigres BEL, immigres CAN, immigres CHE, immigres CHL, immigres CZE, immigres DEU, immigres DNK, immigres EST, immigres FIN, immigres FRA, immigres GBR, immigres GRC, immigres HUN, immigres IRL, immigres ISL, immigres ISR, immigres ITA, immigres JPN, immigres KOR, immigres LVA, immigres LUX, immigres MEX, immigres NLD, immigres NOR, immigres NZL, immigres POL, immigres PRT, immigres SVK, immigres SVN, immigres TUR and immigres USA for each Region broken down by Continent. Color shows details about Number of Records, immigres AUS, immigres AUT, immigres BEL, immigres CAN, immigres CHE, immigres CHL, immigres CZE, immigres DEU, immigres DNK, immigres EST, immigres FIN, immigres FRA, immigres GBR, immigres GRC, immigres HUN, immigres IRL, immigres ISL, immigres ISR, immigres ITA, immigres JPN, immigres KOR, immigres LUX, immigres LVA, immigres MEX, immigres NLD, immigres NOR, immigres NZL, immigres POL, immigres PRT, immigres SVK, immigres SVN, immigres TUR and immigres USA. The view is filtered on Region, which keeps Western Africa.

Measure Names
immigres USA
immigres ITA
immigres GBR
immigres ESP
immigres FRA
immigres DEU
immigres PRT
immigres BEL
immigres NLD
immigres CHE
immigres SWE
immigres AUT
immigres AUS
immigres CAN
immigres NOR
immigres DNK
immigres FIN
immigres IRL
immigres JPN
immigres LUX
immigres CZE
immigres MEX
immigres ISL
immigres SVK
immigres SVN
immigres NZL
immigres EST
immigres EST
immigres FIN
immigres CZE
immigres LVA
Number of Records
immigres POL
immigres ISR
immigres GRC
immigres CHL
Number of Records
immigres POL
immigres ISR
immigres GRC
immigres CHL

Analyse : SMIC for those country

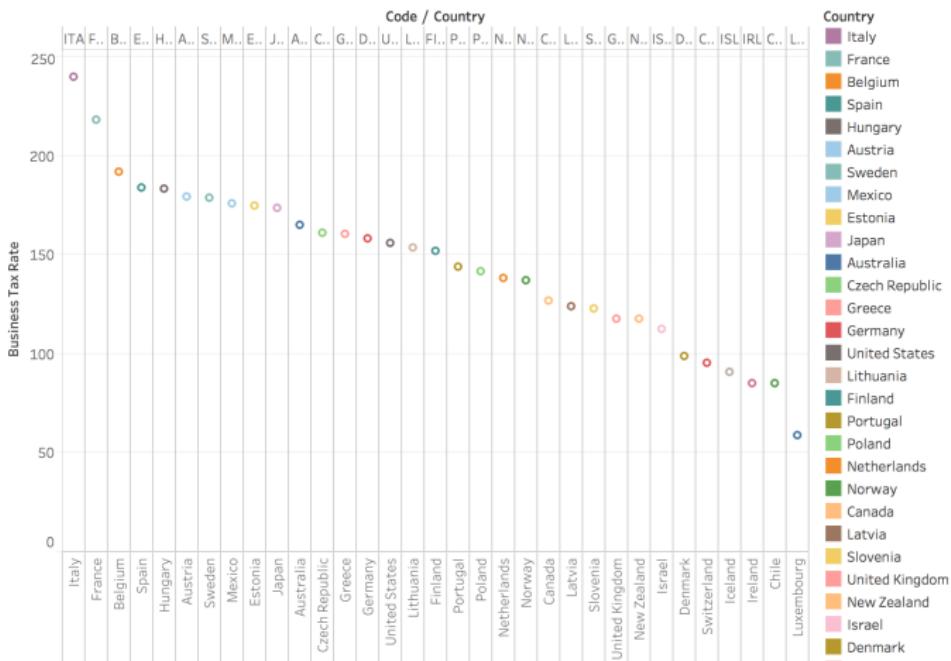
Sheet 1



Sum of Smic for each Pays Key broken down by Nom Pays. Color shows details about Pays Key. The view is filtered on Nom Pays, which keeps 6 of 239 members.

Analyse : Business Tax Rate

Sheet 1

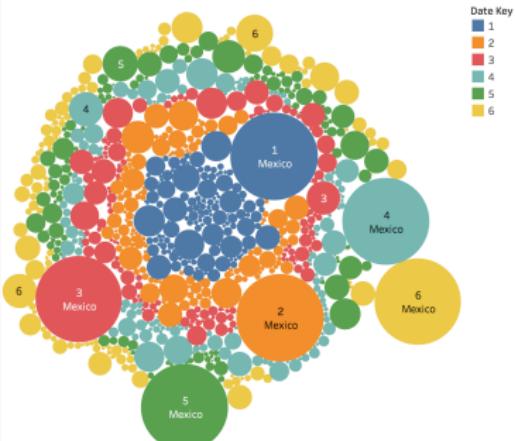


Sum of Business Tax Rate for each Country broken down by Code. Color shows details about Country.

Autres Analyses

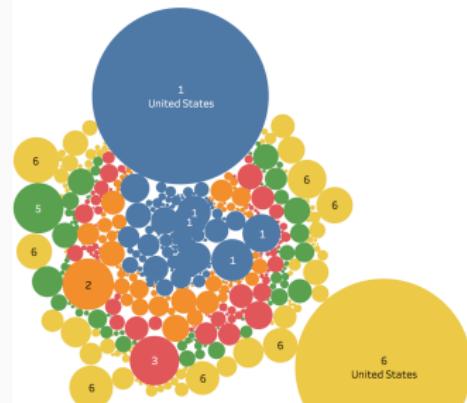
Immigration USA And MEX

Sheet 1



Date Key and Nom Pays. Color shows details about Date Key. Size shows sum of immigres USA.
The marks are labeled by Date Key and Nom Pays.

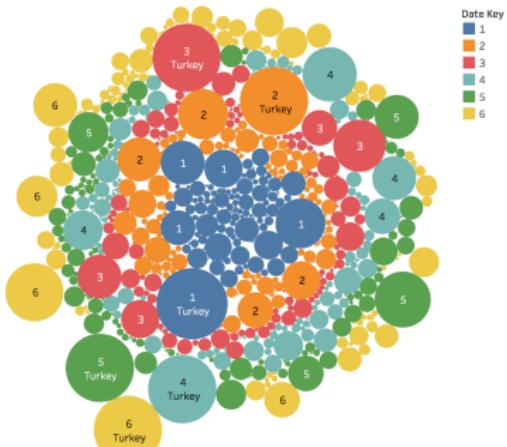
Sheet 1



Date Key and Nom Pays. Color shows details about Date Key. Size shows sum of immigres MEX.
The marks are labeled by Date Key and Nom Pays.

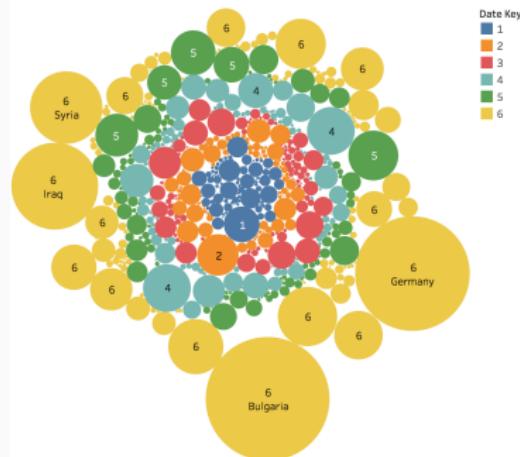
Immigration DEU And TUR

Sheet 1



Date Key and Nom Pays. Color shows details about Date Key. Size shows sum of immigrés DEU. The marks are labeled by Date Key and Nom Pays.

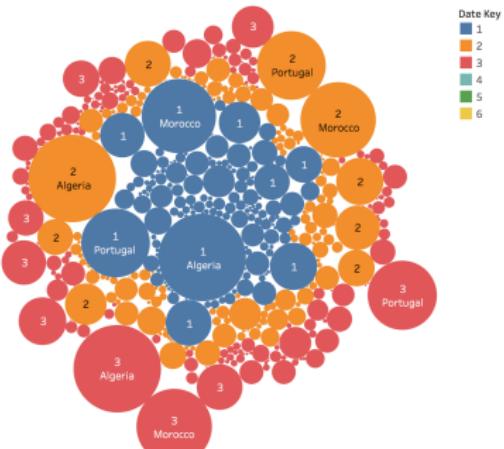
Sheet 1



Date Key and Nom Pays. Color shows details about Date Key, Size shows sum of immigrés TUR. The marks are labeled by Date Key and Nom Pays.

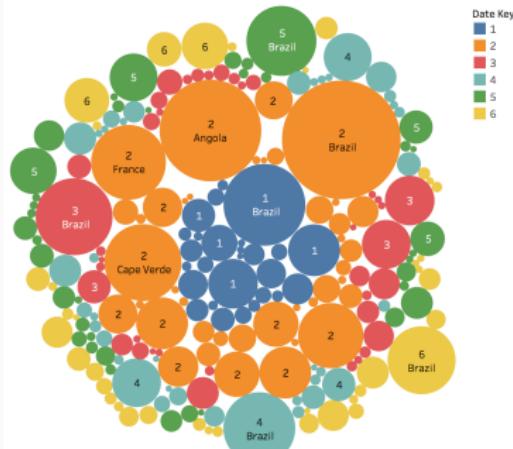
Immigration FRA And PRT

Sheet 1



Date Key and Nom Pays. Color shows details about Date Key. Size shows sum of immigrés FRA. The marks are labeled by Date Key and Nom Pays.

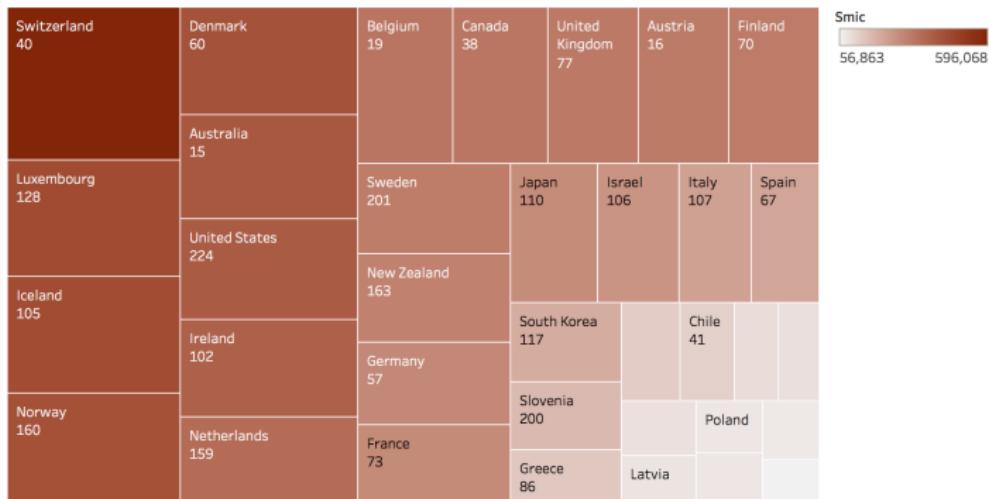
Sheet 1



Date Key and Nom Pays. Color shows details about Date Key. Size shows sum of immigrés PRT. The marks are labeled by Date Key and Nom Pays.

Analyse : SMIC by Country

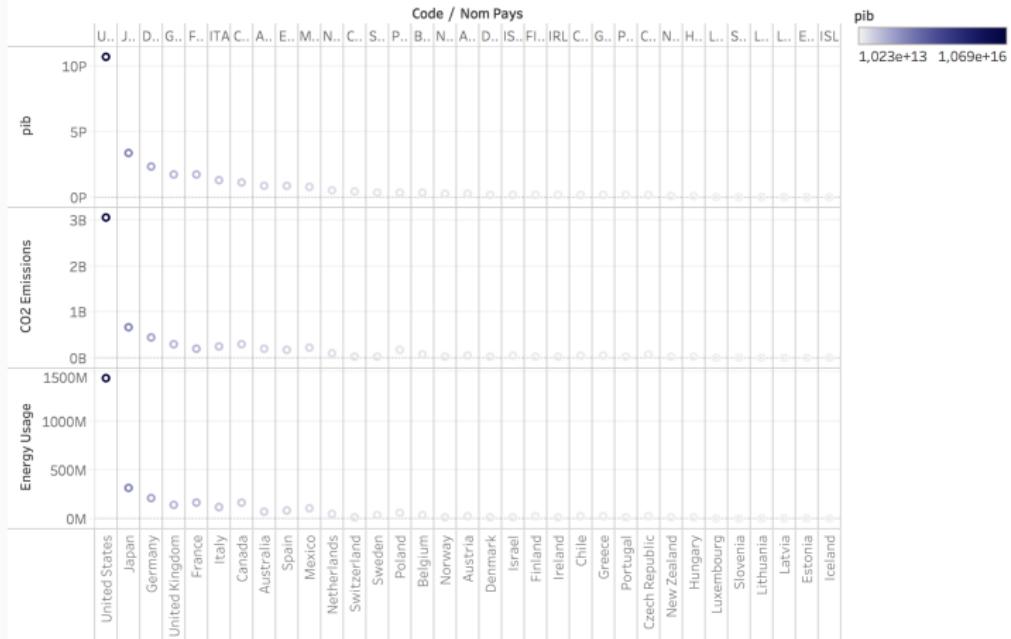
Sheet 1



Nom Pays and Pays Key. Color shows sum of Smic. Size shows sum of Smic. The marks are labeled by Nom Pays and Pays Key.

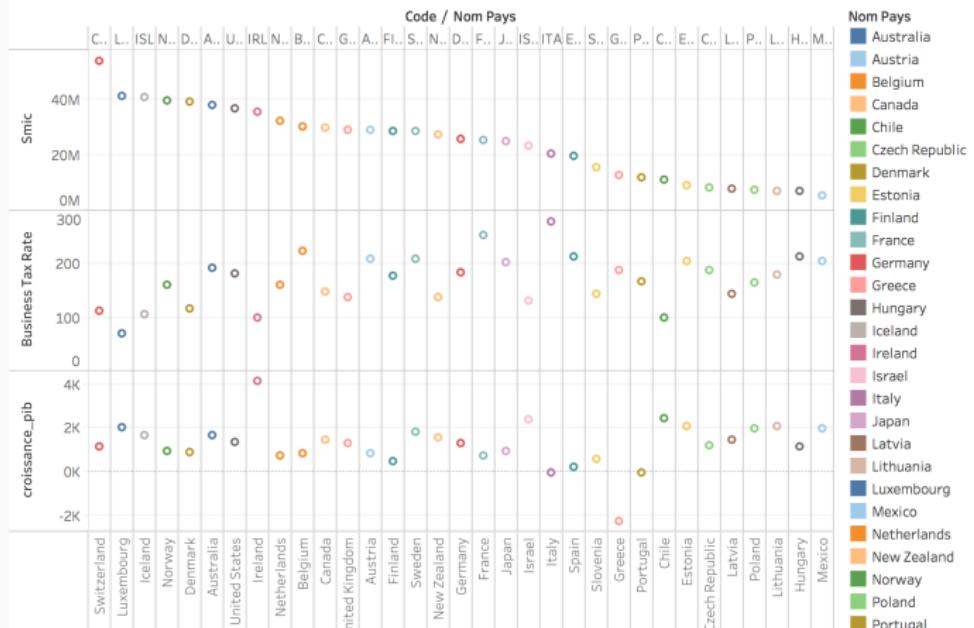
Analyse : Corrélation Energy CO2 PIB

Sheet 1



Analyse : Corrélation SMIC BusinessTax CroissancePIB

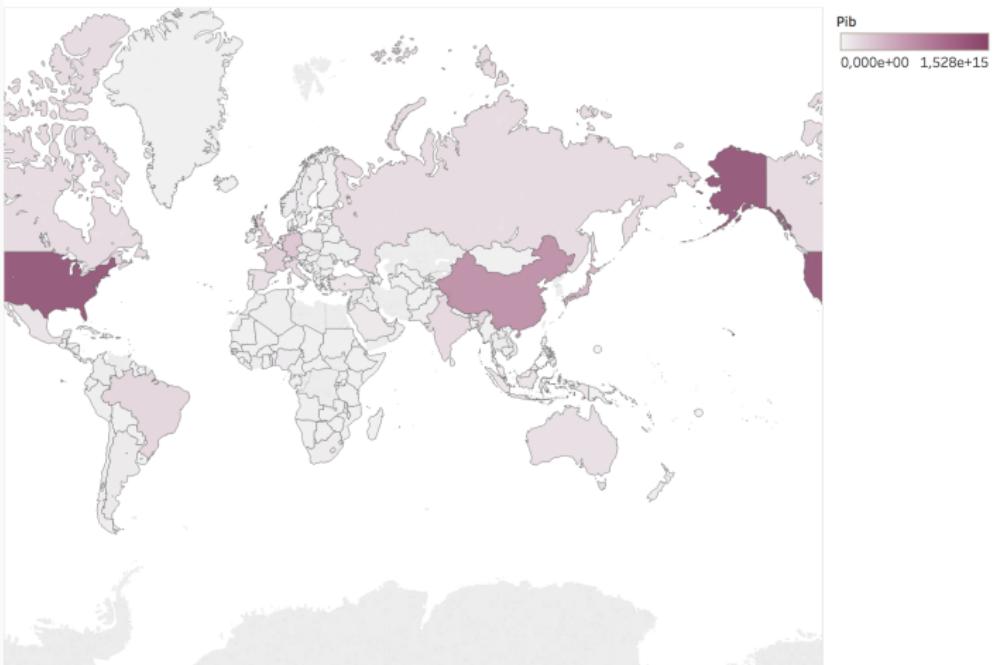
Sheet 1



Sum of SMIC, sum of Business Tax Rate and sum of croissance_pib for each Nom Pays broken down by Code. Color shows details about Nom Pays.

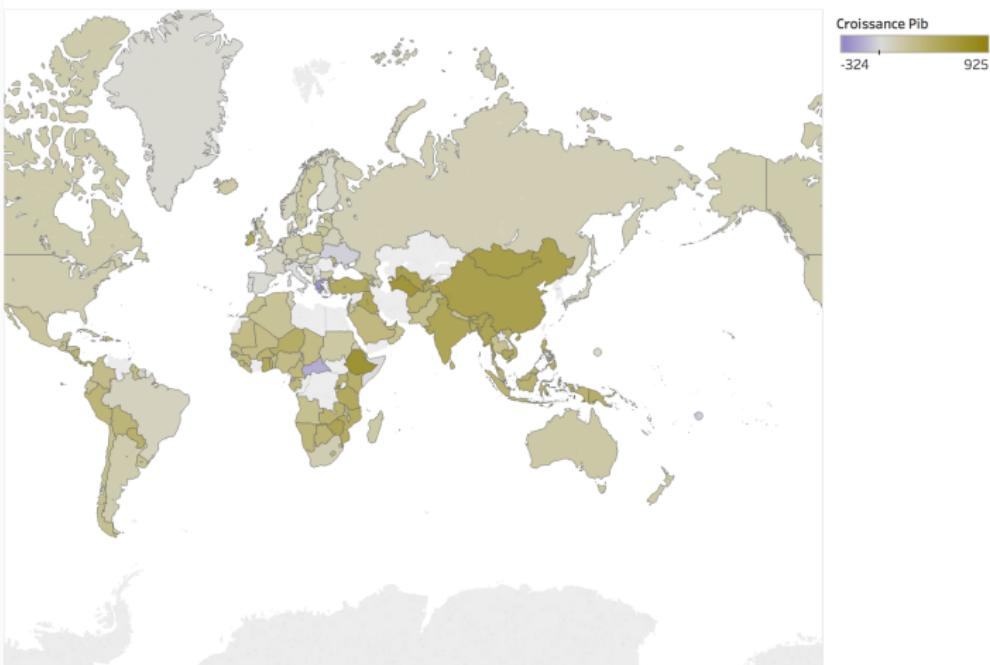
Cartographie

Sheet 1



Croissance PIB

Sheet 1

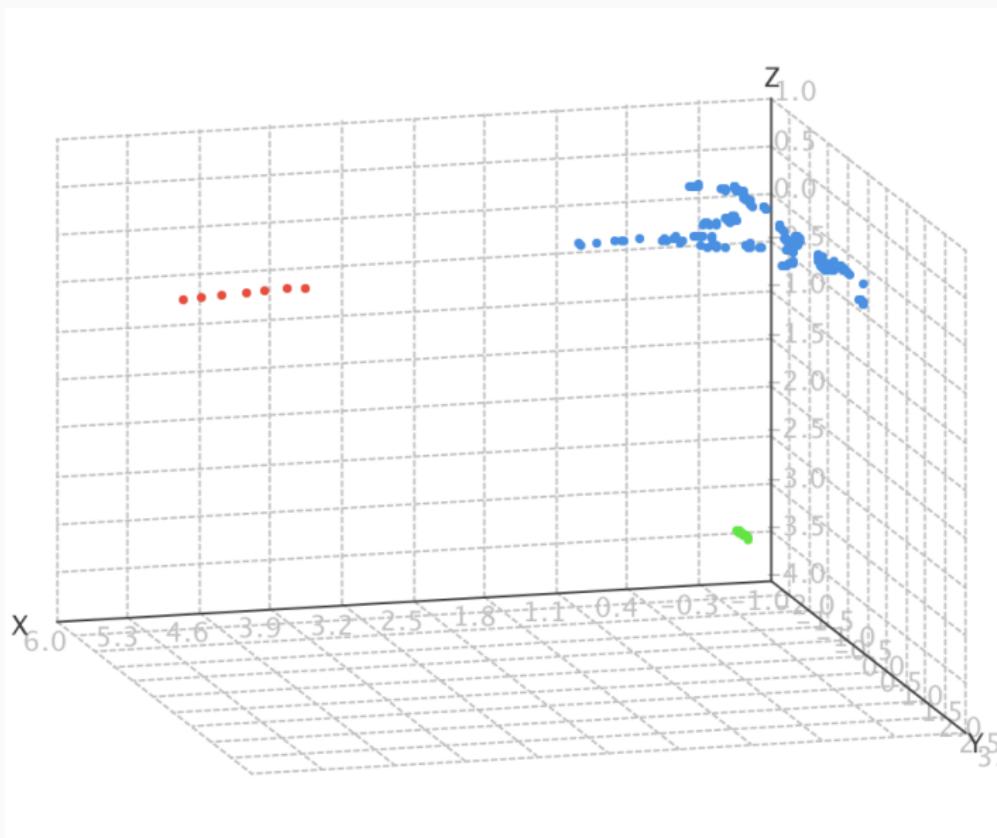


Map based on Longitude (generated) and Latitude (generated). Color shows sum of Croissance Pib. Details are shown for Country.

Data Mining : Matrice Covariance

Attributes	dim_pay...	dim_pay...	dim_date__year	fact_pib_pib	fact_pib_crois...	fact_smic_smic
dim_pays_life_exp...	1.000	-1.000	0	0.137	-0.106	0.385
dim_pays_life_exp...	-1.000	1.000	-0	-0.137	0.106	-0.385
dim_date__year	0	-0	1.000	0.005	0.095	0.027
fact_pib_pib	0.137	-0.137	0.005	1.000	-0.025	0.215
fact_pib_croissance...	-0.106	0.106	0.095	-0.025	1.000	0.037
fact_smic_smic	0.385	-0.385	0.027	0.215	0.037	1.000

Data Mining : KMeans



Conclusion

Merci de votre attention !