Netherlands

Sweden

Finland

Norway

Greece

Italy

Portugal

Belgium

Switzerland

Austria

Poland

Czechia

Hungary

Slovakia

Slovenia

Denmark

Spain

France

Great Britain

Germany

AND (tls206\_person.person\_ctry\_code = 'NL' OR tls206\_person.person\_ctry\_code = 'SE' OR tls206\_person.person\_ctry\_code = 'FI' OR tls206\_person.person\_ctry\_code = 'NO' OR tls206\_person.person\_ctry\_code = 'GR' OR tls206\_person.person\_ctry\_code = 'IT' OR tls206\_person.person\_ctry\_code = 'PT' OR tls206\_person.person\_ctry\_code = 'BE' OR tls206\_person.person\_ctry\_code = 'CH' OR tls206\_person.person\_ctry\_code = 'AT' OR tls206\_person.person\_ctry\_code = 'PL' OR tls206\_person.person\_ctry\_code = 'CZ' OR tls206\_person.person\_ctry\_code = 'HU' OR tls206\_person.person\_ctry\_code = 'SK' OR tls206\_person.person\_ctry\_code = 'SI' OR tls206\_person.person\_ctry\_code = 'DK' OR tls206\_person.person\_ctry\_code = 'IE' OR tls206\_person.person\_ctry\_code = 'ES')

SELECT tls201\_appln.appln\_id, tls201\_appln.appln\_auth + tls201\_appln.appln\_nr + appln\_kind, tls201\_appln.appln\_filing\_date, earliest\_publn\_date, earliest\_publn\_year, earliest\_pat\_publn\_id, tls206\_person.person\_id, person\_name, person\_address, tls206\_person.person\_ctry\_code, nuts, nuts\_level, psn\_id, psn\_name, psn\_level, psn\_sector, han\_id, han\_name, tls207\_pers\_appln.applt\_seq\_nr, tls207\_pers\_appln.invt\_seq\_nr, ipc\_class\_symbol, ipc\_class\_level, ipc\_version, ipc\_value, ipc\_position, ipc\_gener\_auth

FROM tls201\_appln JOIN tls209\_appln\_ipc

ON tls201\_appln.appln\_id = tls209\_appln\_ipc.appln\_id

JOIN tls207\_pers\_appln ON tls201\_appln.appln\_id = tls207\_pers\_appln.appln\_id

JOIN tls206\_person ON tls207\_pers\_appln.person\_id = tls206\_person.person\_id

WHERE ipc\_class\_symbol like 'H02%'

AND  tls206\_person.person\_ctry\_code = 'DE'

AND appln\_filing\_year between 1950 and 2022

ORDER BY tls201\_appln.appln\_id asc

Data selecteren voor een aantal landen (west-europa etc.) en dan co-occurence matrix maken. Gaat om welke codes voorkomen bij dezelfde patenten. Dus +1 op de plek van twee codes op het moment dat éé

SELECT tls201\_appln.appln\_id, tls201\_appln.appln\_auth + tls201\_appln.appln\_nr + appln\_kind, tls201\_appln.appln\_filing\_date, earliest\_publn\_date, earliest\_publn\_year, earliest\_pat\_publn\_id, tls206\_person.person\_id, person\_name, person\_address, tls206\_person.person\_ctry\_code, nuts, nuts\_level, psn\_id, psn\_name, psn\_level, psn\_sector, han\_id, han\_name, tls207\_pers\_appln.applt\_seq\_nr, tls207\_pers\_appln.invt\_seq\_nr, ipc\_class\_symbol, ipc\_class\_level, ipc\_version, ipc\_value, ipc\_position, ipc\_gener\_auth, tls212\_citation.cited\_appln\_id, tls212\_citation.pat\_publn\_id, cited\_pat\_publn\_id, citn\_replenished, citn\_id, citn\_origin, cited\_appln\_id, pat\_citn\_seq\_nr, cited\_npl\_publn\_id, npl\_citn\_seq\_nr, citn\_gener\_auth

FROM tls201\_appln JOIN tls209\_appln\_ipc

ON tls201\_appln.appln\_id = tls209\_appln\_ipc.appln\_id

JOIN tls207\_pers\_appln ON tls201\_appln.appln\_id = tls207\_pers\_appln.appln\_id

JOIN tls206\_person ON tls207\_pers\_appln.person\_id = tls206\_person.person\_id

JOIN tls211\_pat\_publn ON tls207\_pers\_appln.appln\_id = tls211\_pat\_publn.appln\_id

JOIN tls212\_citation ON tls211\_pat\_publn.pat\_publn\_id = tls212\_citation.pat\_publn\_id

WHERE ipc\_class\_symbol like 'H02%'

AND tls206\_person.person\_ctry\_code = 'NL'

AND appln\_filing\_year between 2006 and 2008

ORDER BY tls201\_appln.appln\_id asc

COUNTING

SELECT tls212\_citation.pat\_publn\_id, COUNT(DISTINCT cited\_pat\_publn\_id)

FROM tls201\_appln JOIN tls209\_appln\_ipc

ON tls201\_appln.appln\_id = tls209\_appln\_ipc.appln\_id

JOIN tls207\_pers\_appln ON tls201\_appln.appln\_id = tls207\_pers\_appln.appln\_id

JOIN tls206\_person ON tls207\_pers\_appln.person\_id = tls206\_person.person\_id

JOIN tls211\_pat\_publn ON tls207\_pers\_appln.appln\_id = tls211\_pat\_publn.appln\_id

JOIN tls212\_citation ON tls211\_pat\_publn.pat\_publn\_id = tls212\_citation.pat\_publn\_id

WHERE ipc\_class\_symbol like 'H02%'

AND (tls206\_person.person\_ctry\_code = 'NL' OR tls206\_person.person\_ctry\_code = 'SE' OR tls206\_person.person\_ctry\_code = 'FI' OR tls206\_person.person\_ctry\_code = 'NO' OR tls206\_person.person\_ctry\_code = 'GR' OR tls206\_person.person\_ctry\_code = 'IT' OR tls206\_person.person\_ctry\_code = 'PT' OR tls206\_person.person\_ctry\_code = 'BE' OR tls206\_person.person\_ctry\_code = 'CH' OR tls206\_person.person\_ctry\_code = 'AT' OR tls206\_person.person\_ctry\_code = 'PL' OR tls206\_person.person\_ctry\_code = 'CZ' OR tls206\_person.person\_ctry\_code = 'HU' OR tls206\_person.person\_ctry\_code = 'SK' OR tls206\_person.person\_ctry\_code = 'SI' OR tls206\_person.person\_ctry\_code = 'DK' OR tls206\_person.person\_ctry\_code = 'IE' OR tls206\_person.person\_ctry\_code = 'ES' OR tls206\_person.person\_ctry\_code = 'GB' OR tls206\_person.person\_ctry\_code = 'DE' OR tls206\_person.person\_ctry\_code = 'FR')

AND appln\_filing\_year between 1950 and 2022

GROUP BY tls212\_citation.pat\_publn\_id

IPC classes:

Solar (van Binz et al.):

WHERE ipc\_class\_symbol = 'C01B' OR ipc\_class\_symbol = 'C23C' OR ipc\_class\_symbol = 'C30B' OR ipc\_class\_symbol = 'B28D' OR ipc\_class\_symbol = 'C08G' OR ipc\_class\_symbol = 'B01J' OR ipc\_class\_symbol = 'C07C' OR ipc\_class\_symbol = 'C07D' OR ipc\_class\_symbol = 'C08F' OR ipc\_class\_symbol = 'C08L' OR ipc\_class\_symbol = 'C25B' OR ipc\_class\_symbol = 'C01G' OR ipc\_class\_symbol = 'C08K' OR ipc\_class\_symbol = 'B22D' OR ipc\_class\_symbol = 'B23K' OR ipc\_class\_symbol = 'H01B' OR ipc\_class\_symbol = 'H01L' OR ipc\_class\_symbol = 'H01G' OR ipc\_class\_symbol = 'G01B' OR ipc\_class\_symbol = 'G01R' OR ipc\_class\_symbol = 'G05F' OR ipc\_class\_symbol = 'B32B' OR ipc\_class\_symbol = 'B05D' OR ipc\_class\_symbol = 'G02F' OR ipc\_class\_symbol = 'G02B' OR ipc\_class\_symbol = 'H05K' OR ipc\_class\_symbol = 'H01J' OR ipc\_class\_symbol = 'G09G' OR ipc\_class\_symbol = 'H01H' OR ipc\_class\_symbol = 'C08C' OR ipc\_class\_symbol = 'G08C' OR ipc\_class\_symbol = 'H02M' OR ipc\_class\_symbol = 'E04D'