

DS 09

1. `SELECT idpatient FROM medical WHERE
etat = "hernie discale"`
2. `SELECT nom, prenom FROM patient JOIN medical
ON patient.id = medical.idpatient WHERE
etat = "spondylolisthésis"`
3. `SELECT etat COUNT(idpatient) FROM medical
GROUP BY etat`
- 4.
5. pour data : $N \times 6 = 600\ 000$
pour etat : $N \times 3 = 300\ 000$

On a besoin de $N \times 6 \times 6 + N = 2\ 500\ 000$

donc de 2,5 Mo.

6. def separationParGroupe (data, etat):
 retour = [[], [], []]
 N = len(data)
 for i in range(N):
 retour[etat[i]].append(data[i])
 return retour

$$7. \text{ ARGS1} = (n, m, (i+1) * (j+1))$$

$$\text{ARGS2} = \text{groupe}[i], \text{groupe}[j], \text{marker} = \text{mark}[i]$$

$$\text{ARGS3} = \text{data}[i]$$

$$\text{TEST} = i \neq j$$

8.

$$9. \quad x_{\text{norm}j} = \frac{x_j - \min(X)}{\max(X) - \min(X)}$$

10. min_max (X):

$$\text{min, max} = X[0], X[0]$$

for i in X:

if i < min:

$$\text{min} = i$$

if i > max:

$$\text{max} = i$$

return min, max