

Mines Ponts 2016**Question 1**

Clés primaires pour palu : (nom, année); (iso, année).

Question 2

```
SELECT * FROM palu
WHERE annee = 2010 AND deces >= 1000;
```

Question 3

```
SELECT nom, cas*100000/pop
FROM palu
JOIN demographie
ON palu.iso=demographie.pays
WHERE annee = 2011 AND periode = 2011;
```

```
SELECT nom, cas*100000/pop
FROM palu
JOIN demographie
ON palu.iso=demographie.pays
AND palu.annee=demographie.periode
WHERE annee = 2011;
```

Question 4

```
SELECT nom, cas
FROM palu
WHERE annee = 2010
ORDER BY cas DESC
LIMIT 1 OFFSET 1;
```

```
SELECT nom, MAX(cas)
FROM palu
WHERE annee = 2010 AND cas != (
    SELECT MAX(cas)
    FROM palu
    WHERE annee = 2010
    ORDER BY cas DESC)
ORDER BY cas DESC;
```

```
SELECT nom, MAX(cas)
FROM palu
WHERE annee = 2010 AND cas != (
    SELECT MAX(cas)
    FROM palu
    WHERE annee = 2010);
```

Question 5

```
sorted(deces2010, key=lambda col: col[1])
```

Centrale Supélec 2018**Question 1**

```
SELECT SI_DIM, COUNT(*)
FROM SIMULATION
GROUP BY SI_DIM;
```

Question 2

```
SELECT SI_NUM, COUNT(*), AVG(RE_VIT)
FROM REBOND
GROUP BY SI_NUM;
```

Question 3

```
SELECT RE_DIR, SUM(2*PA_M+RE_VP)
FROM PARTICULE AS PART
JOIN REBOND AS REB
ON PART.PA_NUM = REB.PA_NUM
WHERE SIMU.SI_NUM = n
GROUP BY RE_NUM
```

X-ENS 2017**Question 1****Question 2**

Exemple pour sélectionner juste les idpoints avec un produit cartésien.

```
SELECT M1.idpoint, M2.idpoint
FROM MEMBRE as M1, MEMBRE as M2
WHERE M1.idensemble="A" and M2.idensemble="B" AND
M1.idpoint = M2.idpoint
```

Pour sélectionner les coordonnées (x,y)

```
SELECT x,y FROM
POINTS JOIN
(SELECT M1.idpoint, M2.idpoint
FROM MEMBRE as M1, MEMBRE as M2
WHERE M1.idensemble="A" and M2.idensemble="B" AND
M1.idpoint = M2.idpoint) AS MM
ON POINTS.id = MM.idpoint
```