

TD 4

Langage Relationnel SQL: LID - MD

Base de données
Semestre 3

1

```
1 SELECT idR FROM propP, propV
2 GROUP BY idR
3 HAVING COUNT(idP) > 20 AND COUNT(idV) > 10
4
5 -- ou
6 SELECT propP idR FROM propP; propV
7 WHERE propP.idR = propV.idR
8 GROUP BY propP.idR
9 HAVING COUNT(DISTINCT propP.idP) > 20
10 AND COUNT (DISTINCT vin.idV) > 10;
```

2

```
1 -- not in
2 SELECT idV WHERE idV NOT IN (SELECT DISTINCT idv FROM propV);
3 -- minus
4 SELECT idV FROM vin MINUS SELECT DISTINCT idV FROM propV;
5 -- demi-jointures
6 SELECT vin.idV FROM vin, propV
7 WHERE vin.idV = propV.idV(+)
8 AND idR IS NULL ;
9 -- not exist (requete synchronisé)
10 SELECT vin.idV FROM vin
11 WHERE not exist (SELECT * FROM propV WHERE vin.idV = propV.idV
);
```

3

```
1 ALTER TABLE resto ADD nbPlat number(3,0);
2 UPDATE resto SET nbPlat=(SELECT COUNT(idP) FROM propP.idR =
    resto.idR);
```

4

```

1 UPDATE propV SET prixMoy=(
2   SELECT AVG(prixP) FROM propP, plat
3   WHERE propP.idP = plat.idP
4     AND plat.idV = propV.idV
5     AND propP.idR = propV.idR);

```

5

```

1 SELECT vin.nomV FROM vin, plat, resto, propP
2 WHERE plat.idV = vin.idV
3   AND propP.idR = resto.idR
4   AND propP.idP = plat.idP
5   AND resto.nomR = "La bonne fourchette"
6   AND propP.prixP < 12
7 ORDER BY vin.nomV;

```

6

```

1 SELECT resto.idR FROM propP AS P1, propP AS P2
2 WHERE P1.idR = P2.idR
3   AND P1.idR = 'P01'
4   AND P2.idR = 'P02';
5
6 (SELECT idR FROM propP WHERE idV='P01')
7 INTERSECT
8 (SELECT idR FROM propP WHERE idP = 'P02');
9
10 SELECT idR FROM propP
11 WHERE idP='P01' AND idR in(SELECT idR FROM propP WHERE idP='
    P02');
12
13 SELECT idR FROM propP as P1
14 WHERE idP='P01'
15   AND EXISTS(SELECT idR FROM propP as P2
16     WHERE idP = 'P02' AND P1.idR = P2.idR);

```

7

```

1 SELECT 'le resto de code ' || idP || 'propose le plat' || plat
   .idP||'
2 sans disposer du vin' || 'recommandé avec le plat'
3 FROM propP, plat
4 WHERE propP.idP = plat.idP
5   AND plat.idV not in (SELECT idV FROM propV WHERE idR = prop.
    idR)

```