

SQL

- (1) `select * from U`
- (2) `select * from U
where Ville = 'Londres'`
- (3) `select NF from PUF
where NU = 1 and NP = 1`
- (4) (a) `select distinct NomP, Couleur
from P, PUF
where PUF.NP = P.NP and NF = 1`
(b) `select NomP, Couleur
from P
where NP in
(select NP
from PUF where NF = 1)`
- (5) (a) `select distinct NF
from PUF, P
where Couleur = 'Rouge' and PUF.NP = P.NP and NU = 1`
(b) `select distinct NF from PUF
where NU = 1
and NP in
(select NP
from P where Couleur = 'Rouge')`
- (6) (a) `select distinct NomF
from PUF, P, F, U
where Couleur = 'Rouge'
and PUF.NP = P.NP and PUF.NF = F.NF and PUF.NU = U.NU
and (U.Ville = 'Londres' or U.Ville = 'Paris')`
(b) `select NomF
from F
where NF in
(select NF
from PUF
where NP in
(select NP from P
where Couleur = 'Rouge')
and NU in
(select NU from U
where Ville = 'Londres' or Ville = 'Paris'))`

- (7) select distinct NP
 from PUF, F, U
 where PUF.NF = F.NF and PUF.NU = U.NU and U.Ville = F.Ville
- (8) (a) select distinct NP
 from PUF, F, U
 where PUF.NF = F.NF and PUF.NU = U.NU
 and F.Ville = 'Londres' and U.Ville = 'Londres'
- (b) select distinct NP
 from PUF
 where NF in
 (select NF
 from F
 where Ville = 'Londres')
 and NU in
 (select NU
 from U
 where Ville = 'Londres')
- (9) select distinct PUF.NU
 from PUF, F, U
 where PUF.NF = F.NF and PUF.NU = U.NU and U.Ville <> F.Ville
- (10) (a) select distinct first.NF
 from PUF first, PUF second
 where first.NF = second.NF and first.NU = 1 and second.NU = 2
- (b) select distinct NF
 from PUF
 where NU = 2
 and NF in
 (select NF from PUF where NU = 1)
- (c) (select NF from PUF where NU = 1)
 intersect
 (select NF from PUF where NU = 2)
- (11) select distinct NU from PUF
 where NP in
 (select NP from PUF
 where NF = 3)
- (12) (a) select NP
 from P
 where Poids in
 (select min(Poids) from P)

```

(b) select NP
    from P p1
    where not exists
        ( select *
          from P
          where p1.Poids > Poids )

(c) select NP
    from P
    where Poids <= all ( select Poids from P )

(13) select NU from U
    where NU not in
        ( select NU
          from PUF, P, F
          where PUF.NP = P.NP and PUF.NF = F.NF
            and Couleur = 'Rouge' and Ville = 'Londres' )

(14) (a) select distinct puf.NF
    from PUF puf, PUF puf1, PUF puf2, P
    where couleur = 'Rouge'
    and P.NP = puf2.NP and puf2.NF = puf1.NF and puf1.NP = puf.NP

    (b) select distinct NF from PUF
    where NP in
        ( select NP
          from PUF
          where NF in
            ( select NF
              from PUF
              where NP in
                ( select NP
                  from P
                  where Couleur = 'Rouge' ) ) )

(15) select distinct F.Ville, NP, U.Ville
    from PUF, U, F
    where PUF.NF = F.NF and PUF.NU = U.NU

(16) select distinct F.Ville, NP, U.Ville
    from PUF, U, F
    where F.Ville <> U.Ville and PUF.NF = F.NF and PUF.NU = U.NU

(17) (a) select NP from P
    where not exists
        ( select NU
          from U

```

```

where Ville = 'Londres'
and not exists
( select * from PUF
  where P.NP = PUF.NP and U.NU = PUF.NU ) )

```

Note : Pour tout NP sélectionné, il n'existe pas d'usine à Londres pour laquelle il n'existe pas de produit NP livré.

```

(b) select distinct P.NP from P, PUF, U
where P.NP = PUF.NP and PUF.NU = U.NU
and U.Ville = 'Londres'
group by P.NP
having count(distinct PUF.NU) =
(select count(NU) from U where Ville = 'Londres')

```

```

(18) select NF from F
where exists
( select NP
  from P
  where not exists
    ( select NU
      from U
      where not exists
        ( select *
          from PUF
          where F.NF = PUF.NF and U.NU = PUF.NU
            and P.NP = PUF.NP) ) )

```

Note : Pour tout fournisseur sélectionné, il n'existe pas d'usine qui ne soit pas livrée en produit NP du fournisseur NF.

```

(19) select NU from U
where not exists
( select * from PUF L1
  where L1.NF = 4 and not exists
    ( select * from PUF L2
      where U.NU=L2.NU and L1.NP=L2.NP and L2.NF=4 ) )

```

Note : pour toute usine sélectionnée, il n'existe pas de produit du fournisseur 4 qui ne soit pas livré à l'usine par le fournisseur 4.

```

(20) select NU from U
where NU not in
( select NU
  from PUF
  where NF <> 3 )

```

```

(21) insert into F values (45, 'Alfred', 'sous-traitant', 'Chalon')

```

- (22) delete P where NP >= 100 and NP <= 199 and couleur = 'Noir'
- (23) update F
set Ville = 'Nice'
where NF = 1
- (24) update F
set statut = 'sous-traitant'
where Ville = 'Paris' or Ville = 'Lyon'
- (25) select count(distinct NU)
from PUF
where NF =1
- (26) select NP, NU, sum(Quantite)
from PUF
group by NP, NU
- (27) select distinct NF
from PUF L1, PUF L2
where L1.NP=5 and L2.NP=9 and L1.NF=L2.NF