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use tp_bdd;
/* Création dynamique de tables */

CREATE TABLE Softs AS SELECT nomLog as 'nomSoft', version, prix FROM
Logiciel;

/*CREATE TABLE Softs AS SELECT nomLog, version, prix FROM Logiciel;

ALTER TABLE Softs CHANGE nomLog nomSoft VARCHAR(20);
*/
SELECT * FROM Softs;

CREATE TABLE PCSeuls
  AS SELECT nPoste, nomPoste, IndIP, ad, typePoste, nSalle
  FROM Poste
  WHERE typePoste = 'PCNT' OR typePoste = 'PCWS';

/*CREATE TABLE PCSeuls
  AS SELECT nPoste as 'np', nomPoste 'nomP', IndIP as 'seg', ad, typePoste
as 'typeP', nSalle as 'salle'
  FROM Poste
  WHERE typePoste = 'PCNT' OR typePoste = 'PCWS';
*/

ALTER TABLE PCSeuls CHANGE nPoste np VARCHAR(7);

ALTER TABLE PCSeuls CHANGE nomPoste nomP VARCHAR(20);

ALTER TABLE PCSeuls CHANGE IndIP seg VARCHAR(11);

ALTER TABLE PCSeuls CHANGE typePoste typeP VARCHAR(9);

ALTER TABLE PCSeuls CHANGE nSalle salle VARCHAR(9);

SELECT * FROM PCSeuls;
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use tp_bdd;

/* 4.2 */

select typePoste from Poste where nPoste = 'p8';

select nomLog from Logiciel where typeLog = 'UNIX';

select nomPoste , indIp , nSalle from Poste where typePoste = 'UNIX' or
typePoste = 'PCWS';

select nomPoste , indIp , nSalle from Poste where (typePoste = 'UNIX' or
typePoste = 'PCWS') and indIp = '130.120.80' order by nSalle desc;

select nLog from Installer where nPoste = 'p6';

select nPoste from Installer where nLog = 'log1';

select nomPoste , concat(indIP , '.' , ad) as ' Adresse IP' from Poste
where typePoste = 'TX';

/* 4.3 */

select count(nPoste) from Installer;

select nSalle , count(nPoste) from Poste group by (nSalle) order by 1 asc;

select nLog , count(nPoste) from Installer group by (nLog);

select avg(prix) from Logiciel where typeLog = 'UNIX';

select max(dateAch) from Logiciel;

select nPoste from Installer group by (nPoste) having (count(nLog) = 2);

select count(nPoste) from (select nPoste from Installer group by nPoste
having count(nLog)=2) as Table_Transition;

/* 4.4 */

select distinct typeLP from Types where typeLP not in (select distinct
typePoste from Poste);

select distinct typeLog from Logiciel where typeLog in (select distinct
typePoste from Poste);

select distinct typePoste from Poste where typePoste not in (select
distinct typeLog from Logiciel);

select concat(indIP , '.' , ad) as ' Adresse IP' from Poste where nPoste in
(select nPoste from Installer where nLog = 'log6');

select concat(indIP , '.' , ad) as ' Adresse IP' from Poste where nPoste in
(select nPoste from Installer where nLog = (select nLog from Logiciel where
nomLog = 'Oracle 8'));

select nomSegment from Segment where indIp in (select indIp from Poste
where typePoste = 'TX' group by (indIp) having count(nPoste) = 3);

select nomSalle from Salle where nSalle in (select nSalle from Poste where
nPoste in (select nPoste from Installer where nLog = (select nLog from

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Logiciel where nomLog = 'Oracle 6')));

select nomLog from Logiciel where dateAch = (select max(dateAch) from
Logiciel);

/* Relationnel */

select concat(P.indIP , '.' , P.ad) as ' Adresse IP' from Poste as P,
Installer as I where P.nPoste = I.nPoste and I.nLog = 'log6';

select concat(P.indIP , '.' , P.ad) as ' Adresse IP' from Poste as P,
Installer as I, Logiciel as L where P.nPoste = I.nPoste and L.nLog = I.nLog
and L.nomLog = 'Oracle 8';

select S.nomSegment from Segment as S, Poste as P where S.indIp = P.indIp
and P.typePoste = 'TX' group by (S.nomSegment) having count(P.nPoste) = 3;

select S.nomSalle from Salle as S, Poste as P, Installer as I, Logiciel as
L where S.nSalle = P.nSalle and P.nPoste = I.nPoste and I.nLog = L.nLog and
L.nomLog = 'Oracle 6';

select Sg.nomSegment, S.nomSalle, concat(P.indIP , '.' , P.ad) as ' Adresse
IP', L.nomLog, I.dateIns from Segment as Sg, Salle as S, Poste as P,
Logiciel as L, Installer as I where S.nSalle = P.nSalle and S.indIp =
Sg.indIp and P.nPoste = I.nPoste and I.nLog = L.nLog ORDER BY 1,2,3;

/* SQL2 */

select concat(indIP , '.' , ad) as ' Adresse IP' from Poste natural join
Installer where nLog = 'log6';

select concat(indIP , '.' , ad) as ' Adresse IP' from Poste natural join
Installer natural join Logiciel where nomLog = 'Oracle 8';

select nomSegment from Segment natural join Poste where typePoste = 'TX'
group by (indIp) having count(nPoste) = 3;
/*select nomSegment from Segment join Poste using (indIp) where typePoste =
'TX' group by (indIp) having count(nPoste) = 3; */

select nomSalle from Salle natural join Poste natural join Installer
natural join Logiciel where nomLog = 'Oracle 6';

/* 4.6 */

select nomPoste from Poste P where exists (select distinct I.nLog from
Installer I where I.nPoste = P.nPoste and I.nLog in (select I2.nLog from
Installer I2 where I2.nPoste = 'p6')) and not (nPoste = 'p6');

select nomPoste from Poste P where not exists (select distinct I.nLog from
Installer I where I.nPoste = 'p6' and I.nLog not in (select I2.nLog from
Installer I2 where I2.nPoste = P.nPoste)) and not (nPoste = 'p6');

select nomPoste from Poste P where not exists (select I.nLog from Installer
I where I.nPoste = 'p2' and I.nLog not in (select I2.nLog from Installer I2
WHERE I2.nPoste = p.nPoste)) and not exists (select I3.nLog from Installer
I3 where I3.nPoste = P.nPoste and I3.nLog not in (select I4.nLog from
Installer i4 where I4.nPoste = 'p2')) and not (nPoste = 'p2');

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use tp_bdd;

insert into installer values ('p2' , 'log6' , null , sysdate() ,null);
insert into installer values ('p8' , 'log1' , null , sysdate() , null);
insert into installer values ('p10' , 'log1' , null , sysdate() , null);

select * from Installer;

update Segment as Sg set Sg.nbSalle = (select count(S.nSalle) from Salle as
S where Sg.indIP = S.indIP);

update Segment as Sg set Sg.nbPoste = (select count(P.nPoste) from Poste as
P where Sg.indIP = P.indIP);

select * from Segment;

update Logiciel as L set L.nbInstall = (select count(I.numIns) from
Installer as I where L.nLog = I.nLog);

select * from Logiciel ;

update Poste as P set P.nbLog = (select count(I.numIns) from Installer I
where P.nPoste = I.nPoste);

select * from Poste ;

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use tp_bdd;

/** DROP TABLE DATABASE CASCADE NOT WORKING ON MYSQL **/

SET FOREIGN_KEY_CHECKS = 0;

drop table Segment;
drop table Salle;
drop table Poste;
drop table Logiciel;
drop table Installer;
drop table Types;
drop table Softs;
drop table PCSeuls;

SET FOREIGN_KEY_CHECKS = 1;

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