***-- COISSARD Kévin - ASPE '17/11/2015'***

***-- ==== TP 5 : LE JARDIN DE CHARLOTTE === ---***

**Questions 3**

CREATE TABLE VILLE (

codePostal number, ville VARCHAR2(20), tarifLivraison number,

constraint pk\_VILLE primary key (codePostal)

);

CREATE TABLE CLIENTS (

numClient number, nomClient VARCHAR2(40), adrClient VARCHAR2(60),

codePostalClient number, villeClient VARCHAR2(20), telClient number,

constraint pk\_CLIENTS\_numClient primary key (numClient)

);

CREATE TABLE FLEURS (

nomFleur varchar(20), ville VARCHAR2(20), tarifFLeur number,

constraint pk\_FLEURS\_nomFleur primary key (nomFleur)

);

CREATE TABLE COMMANDE (

numCommande number, dateCommande DATE, nomLivraison VARCHAR2(40),

adrLivraison VARCHAR2(60), dateLivraisonPrevue DATE, dateAcceptation DATE not null,

dateLivraisonEffective DATE, datePaiement DATE, numClient number,

codePostal number,

constraint pk\_COMMANDE\_numCommande primary key (numCommande),

constraint fk\_COMMANDE\_numClient foreign key (numClient) references CLIENTS(numClient),

constraint fk\_COMMANDE\_codePostal foreign key (codePostal) references VILLE(codePostal),

constraint ck\_COMMANDE\_datediff check (dateCommande < dateLivraisonPrevue)

);

CREATE TABLE BOUQUET (

numBouquet number, qtteBouquets number, numCommande number,

constraint pk\_BOUQTET\_NumBouquet primary key (numBouquet),

constraint fk\_BOUQUET\_numCommande foreign key (numCommande) references COMMANDE(numCommande)

);

CREATE TABLE COMPOSITION (

numBouquet number, nomFleur VARCHAR2(20), nbFleurs number,

constraint pk\_COMPOSITION\_doublecle primary key (numBouquet, nomFleur),

constraint fk\_COMPOSITION\_numBouquet foreign key (numBouquet) references BOUQUET(numBouquet),

constraint fk\_COMPOSITION\_nomFleur foreign key (nomFleur) references FLEURS(nomFleurs)

);

CREATE TABLE ACHAT (

nomFleur VARCHAR2(20), dateAchatFleur DATE, prixAchat number,

constraint pk\_ACHAT\_doublecle primary key (nomFleur, dateAchatFleur),

constraint fk\_ACHAT\_nomFleur foreign key (nomFleur) references FLEURS(nomFleur)

);

CREATE TABLE FACTURE (

numFacture number, dateFacture DATE, numCommande number,

constraint pk\_FACTURE\_numFacture primary key (numFacture),

constraint fk\_FACTURE\_numCommande foreign key(numCommande) references COMMANDE(numCommande)

);

commit;

insert into VILLE values (&codePostal, &ville, &tarifLivraison);

commit;

**Questions 5**

***R1.***

select count(\*) from COMMANDE

where To\_char (dateCommande,'YYYY') = 2015;

***R2.***

select \* from (select count(\*) as nombreLivraison, codePostal from COMMANDE

group by codePostal order by nombreLivraison desc)

where Rownum < 4;

***R3.***

select nomFleur from (

select sum(qtteBouquets \* nbFleurs) as toutesFleurs, nomFleur

from COMMANDE, COMPOSITION, BOUQUET

where COMMANDE.numCommande = BOUQUET.numCommande

and To\_char (dateCommande,'YYYY') = 2014

and BOUQUET.numbouquet = COMPOSITION.numbouquet

group by nomFleur

order by toutesFleurs desc)

where rownum = 1;

***R4.***

select avg(sum(qtteBouquets))

from (select CLIENTS.numClient, COMMANDE.numCommande, numBouquet, qtteBouquets from CLIENTS, BOUQUET, COMMANDE

where CLIENTS.numClient = COMMANDE.numClient

and COMMANDE.numCommande = BOUQUET.numCommande)

group by numClient;

***R5.***

select nomFleur from FLEURS

minus

select nomFleur from COMPOSITION;

***R6.***

create view FLEUR\_ACHET as

select nomClient, FLEURS.nomfleur, sum(qtteBouquets \*nbFleurs) as total\_Fleurs

from CLIENTS, COMMANDE, BOUQUET, COMPOSITION, FLEURS

where CLIENTS.numClient = COMMANDE.numClient

and COMMANDE.numCommande = BOUQUET.numCommande

and COMPOSITION.numBouquet= BOUQUET.numBouquet

and FLEURS.nomFleur = composition.nomFleur

group by (nomClient, FLEUR.nomFleur);

select nomClient, nomFleur, total\_Fleurs from FLEUR\_ACHET

where total\_Fleurs in (select max(total\_Fleurs) from FLEUR\_ACHET group by nomClient);