/\* ---------------------------------------------------------------------------

EVALUATION - Création des tables

----------------------------------------------------------------------------\*/

/\* ================================================

TABLE : client

=================================================\*/

CREATE TABLE client (

cli\_code int NOT NULL,

cli\_nom varchar(30),

cli\_adresse varchar(60),

cli\_codepostal char(5),

cli\_ville varchar(24),

PRIMARY KEY (cli\_code)

) ;

/\* ================================================

TABLE : famille

=================================================\*/

CREATE TABLE famille (

fam\_id tinyint NOT NULL,

fam\_libelle varchar(30),

PRIMARY KEY (fam\_id)

) ;

/\* ================================================

TABLE : commande

=================================================\*/

CREATE TABLE commande (

cde\_num int NOT NULL,

cde\_date datetime,

cde\_montant decimal(11,2),

cde\_codeclient int,

PRIMARY KEY (cde\_num)

) ;

/\* ================================================

TABLE : produit

=================================================\*/

CREATE TABLE produit (

prd\_ref int NOT NULL,

prd\_libelle varchar(30),

prd\_prix decimal(7,2),

prd\_qtestock smallint,

prd\_qtealerte smallint

prd\_idfamille tinyint,

PRIMARY KEY (prd\_ref)

) ;

/\* ================================================

TABLE : lignecommande

=================================================\*/

CREATE TABLE lignecommande (

lcd\_numcommande int NOT NULL,

lcd\_refproduit int,

lcd\_quantite smallint,

) ;

/\* ================================================

Foreign\_key

=================================================\*/

ALTER TABLE commande ADD CONSTRAINT FK\_commande\_cde\_codeclient FOREIGN KEY (cde\_codeclient) REFERENCES client(cli\_code);

ALTER TABLE produit ADD CONSTRAINT FK\_produit\_prd\_idfamille FOREIGN KEY (prd\_idfamille) REFERENCES famille(fam\_id);

ALTER TABLE lignecommande ADD CONSTRAINT FK\_lignecommande\_lcd\_refproduit FOREIGN KEY (lcd\_refproduit) REFERENCES produit(prd\_ref);

ALTER TABLE lignecommande ADD CONSTRAINT FK\_lignecommande\_lcd\_numcommande FOREIGN KEY (lcd\_numcommande) REFERENCES commande(cde\_num);

/\* ================================================

2 : Corriger les requêtes

=================================================\*/

#1

INSERT INTO produit VALUES (106, 'EXCEL PLUS MIEUX', 300, 50, 5, 4)

#2

INSERT INTO commande

VALUES (5006,'21-10-2010', 2201, 2002);

#3

SELECT cli\_nom, cli\_ville, cde\_num, cde\_date, cde\_montant

FROM client

JOIN commande ON client.cli\_code = commande.cde\_codeclient

#4

SELECT produit.prd\_libelle, sum(lignecommande.lcd\_quantite 'quantité commandée')

FROM produit

JOIN commande ON produit.prd\_ref = lignecommande.lcd\_refproduit

GROUP BY produit.prd\_libelle

#5

INSERT INTO produit VALUES (109,'JAVA', 500, 22, 10, 2)

/\* ================================================

3 : Ecire les requêtes

=================================================\*/

#1

SELECT P.prd\_libelle, F.fam\_libelle

FROM produit P

JOIN famille F

ON P.prd\_idfamille = F.fam\_id

#2

SELECT P.prd\_ref, P.prd\_libelle, sum(lcd\_quantite) 'total commandes'

FROM produit P

JOIN lignecommande L

ON P.prd\_ref = L.lcd\_refproduit

GROUP BY P.prd\_ref, P.prd\_libelle

ORDER BY P.prd\_ref

#3

SELECT P.prd\_ref, P.prd\_libelle

FROM produit

JOIN lignecommande

ON prd\_ref = lcd\_refproduit

WHERE lcd\_numcommande IN (

SELECT lcd\_numcommande

FROM lignecommande

HAVING sum(lcd\_quantite) >= 5

GROUP BY lcd\_numcommande)

#4

SELECT prd\_ref, prd\_libelle

FROM produit

JOIN famille

ON prd\_idfamille = fam\_id

WHERE prd\_idfamille = (

SELECT prd\_idfamille

FROM produit

WHERE prd\_libelle LIKE 'COBOL')

AND prd\_libelle <> 'COBOL'

#5

SELECT cli\_code, cli\_nom

FROM client

LEFT JOIN commande

ON cli\_code = cde\_codeclient

WHERE cli\_code NOT IN (SELECT cde\_codeclient FROM commande)

#6

SELECT cli\_code, cli\_nom, cli\_ville

FROM client

JOIN commande

ON cli\_code = cde\_codeclient

GROUP BY cli\_code, cli\_nom, cli\_ville

HAVING count(cde\_num) >= 2

#7

SELECT cde\_num

FROM commande

WHERE cde\_date = (

SELECT cde\_date

FROM commande

WHERE cde\_num LIKE '5001')

#8

SELECT TOP 1 WITH TIES cli\_ville 'ville'

FROM client

GROUP BY cli\_ville

HAVING count(cli\_code) >= ALL SELECT count(cli\_code) FROM client GROUP BY cli\_ville

ORDER BY count(cli\_code) DESC

#9

SELECT cde\_num, cde\_date 'date cde', cde\_montant'montant dans commande', (lcd\_quantite \* prd\_prix) 'somme des montants'

FROM commande

JOIN lignecommande

ON cde\_num = lcd\_numcommande

JOIN produit

ON lcd\_refproduit = prd\_ref

GROUP BY cde\_num, cde\_date, cde\_montant

HAVING cde\_montant != (

SELECT (lcd\_quantite \* prd\_prix)

FROM lignecommande

JOIN produit

ON lcd\_refproduit = prd\_ref

GROUP BY lcd\_numcommande)

ORDER BY cde\_num

#10

SELECT TOP 1 WITH TIES cli\_ville 'ville'

FROM client

JOIN commande

ON cli\_code = cde\_codeclient

JOIN lignecommande

ON cde\_num = lcd\_numcommande

HAVING sum(lcd\_quantite) = (

SELECT TOP 1 WITH TIES sum(lcd\_quantite)

FROM lignecommande

JOIN commande

ON lcd\_numcommande = cde\_num

JOIN client

ON cde\_codeclient = cli\_code

GROUP BY cli\_ville

ORDER BY sum(lcd\_quantite) DESC)

ORDER BY sum(lcd\_quantite) DESC

#11

SELECT cli\_nom, cli\_ville, prd\_ref 'référence produit', sum(lcd\_quantite) 'quantité'

FROM client

JOIN commande

ON cli\_code = cde\_codeclient

JOIN lignecommande

ON cde\_num = lcd\_numcommande

JOIN produit

ON lcd\_refproduit = prd\_ref

WHERE prd\_ref = (

SELECT prd\_ref

FROM produit

JOIN lignecommande

ON prd\_ref = lcd\_refproduit

GROUP BY prd\_ref

HAVING sum(lcd\_quantite) >= ALL (

SELECT TOP 1 WITH TIES sum(lcd\_quantite)

FROM lignecommande

GROUP BY lcd\_refproduit

ORDER BY sum(lcd\_quantite))

GROUP BY cli\_nom, cli\_ville, prd\_ref