```
RESULTAT DES TESTS

============================ test session starts ============================
platform darwin -- Python 3.6.2, pytest-5.2.2, py-1.8.0, pluggy-0.13.0
rootdir: /Users/emiliendurif/Dropbox/cpge/ipt_mpsi_ds/DS08/correction_auto/scrip
t/DS_08_luri
plugins: timeout-1.3.4
timeout: 60.0s
timeout method: signal
timeout func_only: False
collected 22 items


test_TP.py F..FF...FF.F.F.FF.FFFF                                       [100%]


================================== FAILURES ==================================
_____ test_Q1_req _____

    def test_Q1_req ():
>       assert requete(sol_Q1_req) == requete(Q1_req)
E       AssertionError: assert [('DUPONT', '...', 'M.'), ...] == [('M.', 'Alai..
.'FAURE'), ...]
E         At index 0 diff: ('DUPONT', 'Alain', 'M.') != ('M.', 'Alain', 'DUPONT'
)
E         Use -v to get the full diff

test_TP.py:98: AssertionError
_____ test_Q3_req _____

    def test_Q3_req ():
>       assert requete(sol_Q3_req) == requete(Q3_req)
E       AssertionError: assert [('BOYER', 'M...ueline'), ...] == [('Martine', ..
.'DAVID'), ...]
E         At index 0 diff: ('BOYER', 'Martine') != ('Martine', 'BOYER')
E         Use -v to get the full diff

test_TP.py:107: AssertionError
_____ test_Q4_req _____

    def test_Q4_req ():
>       assert requete(sol_Q4_req) == requete(Q4_req)
E       AssertionError: assert [('DUHAMEL', ... 'Mme.'), ...] == [('Melle.', '..
.HAMBON'), ...]
E         At index 0 diff: ('DUHAMEL', 'Evelyne', 'Melle.') != ('Melle.', 'Améli
e', 'DAUMIER')
E         Use -v to get the full diff

test_TP.py:110: AssertionError
_____ test_Q7_req _____

    def test_Q7_req ():
>       assert requete(sol_Q7_req) == requete(Q7_req)
E       AssertionError: assert [('DUPONT', '...-92-21'), ...] == [('AIACH', '0..
.-33-49'), ...]
E         At index 0 diff: ('DUPONT', '01-45-42-56-63') != ('AIACH', '04-91-52-5
1-52')
E         Right contains 48 more items, first extra item: ('MOURGUES', '01-48-78
-30-69')
E         Use -v to get the full diff

test_TP.py:122: AssertionError
_____ test_Q8_req _____

    def test_Q8_req ():
>       assert requete(sol_Q8_req) == requete(Q8_req)
E       AssertionError: assert [('BENATTAR',), ('MARTIN',)] == [('M.', 'Marc...,
 'BENATTAR')]
E         At index 0 diff: ('BENATTAR',) != ('M.', 'Marc', 'MARTIN')
E         Right contains 3 more items, first extra item: ('M.', 'Jean-Pierre', '
```

```
MARTIN')
E           Use −v to get the full diff

test_TP.py:125: AssertionError
_____ test_Q10_res _____

    def test_Q10_res ():
>       assert sol_Q10_res.upper() ==  Q10_res.upper()
E       AssertionError: assert '(17.0, 51.0)' == '17;51'
E         − (17.0, 51.0)
E         + 17;51

test_TP.py:131: AssertionError
_____ test_Q11_res _____

    def test_Q11_res ():
>       assert sol_Q11_res.upper() ==  Q11_res.upper()
E       AssertionError: assert '(17.0, 51)' == '17;51'
E         − (17.0, 51)
E         + 17;51

test_TP.py:137: AssertionError
_____ test_Q12_req _____

    def test_Q12_req ():
>       assert requete(sol_Q12_req) == requete(Q12_req)
E       assert [(1,), (2,), ...), (26,), ...] == [(1,), (3,), ...,), (2,), ...]
E         At index 1 diff: (2,) != (3,)
E         Right contains 848 more items, first extra item: (668,)
E         Use −v to get the full diff

test_TP.py:143: AssertionError
_____ test_Q13_req _____

    def test_Q13_req ():
>       assert requete(sol_Q13_req) == requete(Q13_req)
E       assert [(1,), (2,), ...,), (6,), ...] == [(1,), (1,), ...,), (1,), ...]
E         At index 1 diff: (2,) != (1,)
E         Right contains 1048 more items, first extra item: (9,)
E         Use −v to get the full diff

test_TP.py:146: AssertionError
_____ test_Q15_res _____

    def test_Q15_res ():
>       assert sol_Q15_res.upper() ==  Q15_res.upper()
E       assert "('SILLET', 'JACQUES', 561)" == 'THIRIOT,JACKY,81.6'
E         − ('SILLET', 'JACQUES', 561)
E         + THIRIOT,JACKY,81.6

test_TP.py:152: AssertionError
_____ test_Q15_req _____

    def test_Q15_req ():
>       assert requete(sol_Q15_req) == requete(Q15_req)
E       AssertionError: assert [('SILLET', 'Jacques', 561)] == [('THIRIOT', ...0
00000000001)]
E         At index 0 diff: ('SILLET', 'Jacques', 561) != ('THIRIOT', 'Jacky', 81
.60000000000001)
E         Use −v to get the full diff

test_TP.py:155: AssertionError
_____ test_Q15_res2 _____

    def test_Q15_res2 ():
>       assert sol_Q15_res2.upper() ==  Q15_res.upper()
E       assert "('THOMASSE',...-CLAUDE', 20)" == 'THIRIOT,JACKY,81.6'
E         − ('THOMASSE', 'JEAN−CLAUDE', 20)
```

```
E          + THIRIOT,JACKY,81.6


test_TP.py:158: AssertionError
_____ test_Q15_req2 _____

    def test_Q15_req2 ():
>       assert requete(sol_Q15_req2) == requete(Q15_req)
E       AssertionError: assert [('THOMASSE',...-Claude', 20)] == [('THIRIOT', ..
.000000000001)]
E         At index 0 diff: ('THOMASSE', 'Jean-Claude', 20) != ('THIRIOT', 'Jacky
', 81.60000000000001)
E         Use -v to get the full diff


test_TP.py:161: AssertionError
======================== 13 failed, 9 passed in 0.75s ========================

MODIFICATIONS EFFECTUEES SUR LE FICHIER RENDU
=============================================


--- prog.py.orig       2020-06-22 08:24:08.000000000 +0200
+++ prog.py     2020-06-24 14:57:11.000000000 +0200
@@ -4,103 +4,55 @@
 alpha="2"

 ## Question 1
-Q1_req = "SELECT TIT_CODE, CLI_PRENOM, CLI_NOM
-FROM T_CLIENT
-;;"
+Q1_req = "SELECT TIT_CODE, CLI_PRENOM, CLI_NOM FROM T_CLIENT"

 ## Question 2
-Q2_req = "SELECT COUNT()
-FROM T_CLIENT
-;;"
+Q2_req = "SELECT COUNT() FROM T_CLIENT"
 Q2_res = "97"

 ## Question 3
-Q3_req = "SELECT CLI_PRENOM, CLI_NOM
-FROM T_CLIENT
-WHERE TIT_CODE="Mme."
-;;"
+Q3_req = "SELECT CLI_PRENOM, CLI_NOM FROM T_CLIENT WHERE TIT_CODE='Mme.'"

 ## Question 4
-Q4_req = "SELECT TIT_CODE, CLI_PRENOM, CLI_NOM
-FROM T_CLIENT
-WHERE TIT_CODE="Mme."
-
-UNION
-
-SELECT TIT_CODE, CLI_PRENOM, CLI_NOM
-FROM T_CLIENT
-WHERE TIT_CODE="Melle."
-;;"
+Q4_req = "SELECT TIT_CODE, CLI_PRENOM, CLI_NOM FROM T_CLIENT WHERE TIT_CODE='Mm
e.' UNION SELECT TIT_CODE, CLI_PRENOM, CLI_NOM FROM T_CLIENT WHERE TIT_CODE='Mel
le.'"


 ## Question 5
-Q5_req = "SELECT COUNT()
-FROM T_CLIENT
-WHERE TIT_CODE="Mme." OR TIT_CODE="Melle."
-;;"
+Q5_req = "SELECT COUNT() FROM T_CLIENT WHERE TIT_CODE='Mme.' OR TIT_CODE='Melle
.'"
 Q5_res = "17"
```

```
 ## Question 6
-Q6_req = "SELECT CLI_NOM AS "Nom", CLI_PRENOM AS "Prenom"
-FROM T_CLIENT
-WHERE TIT_CODE="Melle." OR TIT_CODE="Mme."
-ORDER BY CLI_NOM"
-
+Q6_req = "SELECT CLI_NOM AS 'Nom', CLI_PRENOM AS 'Prenom' FROM T_CLIENT WHERE T
IT_CODE='Melle.' OR TIT_CODE='Mme.' ORDER BY CLI_NOM"

 ## Question 7
-Q7_req = "SELECT CLI_NOM AS "Nom", TEL_NUMERO AS "Numéro de téléphone"
-FROM T_CLIENT, T_TELEPHONE
-WHERE T_CLIENT.CLI_ID=T_TELEPHONE.CLI_ID
-ORDER BY CLI_NOM"
+Q7_req = "SELECT CLI_NOM AS 'Nom', TEL_NUMERO AS 'Numéro de téléphone' FROM T_C
LIENT, T_TELEPHONE WHERE T_CLIENT.CLI_ID=T_TELEPHONE.CLI_ID ORDER BY CLI_NOM"

 ## Question 8
-Q8_req = "SELECT TIT_CODE, T_CLIENT.CLI_PRENOM, T_CLIENT.CLI_NOM
-FROM T_CLIENT
-WHERE T_CLIENT.CLI_NOM= (SELECT T_CLIENT.CLI_NOM FROM T_CLIENT GROUP by
T_CLIENT.CLI_NOM HAVING  COUNT(CLI_NOM)=3) OR T_CLIENT.CLI_NOM= (SELECT T_CLIENT
.CLI_NOM FROM T_CLIENT GROUP by T_CLIENT.CLI_NOM HAVING  COUNT(CLI_NOM)=2)
-
-"
+Q8_req = "SELECT TIT_CODE, T_CLIENT.CLI_PRENOM, T_CLIENT.CLI_NOM FROM T_CLIENT
WHERE T_CLIENT.CLI_NOM= (SELECT T_CLIENT.CLI_NOM FROM T_CLIENT GROUP by T_CLIENT
.CLI_NOM HAVING  COUNT(CLI_NOM)=3) OR T_CLIENT.CLI_NOM= (SELECT T_CLIENT.CLI_NOM
 FROM T_CLIENT GROUP by T_CLIENT.CLI_NOM HAVING  COUNT(CLI_NOM)=2)"

 ## Question 9
-Q9_req = "SELECT CLI_NOM,  COUNT(*) AS Nombre
-FROM T_CLIENT
-GROUP BY CLI_NOM
-HAVING Nombre>=2"
+Q9_req = "SELECT CLI_NOM,  COUNT(*) AS Nombre FROM T_CLIENT GROUP BY CLI_NOM HA
VING Nombre>=2"
 Q9_res = "Benattar=2;Martin=3"

 ## Question 10
-Q10_req = "SELECT AVG(LIF_REMISE_POURCENT) AS "Valeur moyenne des remises en po
urcentage", AVG(LIF_REMISE_MONTANT) AS "Valeur moyenne des remises en montant"
-FROM T_LIGNE_FACTURE"
+Q10_req = "SELECT AVG(LIF_REMISE_POURCENT) AS 'Valeur moyenne des remises en po
urcentage', AVG(LIF_REMISE_MONTANT) AS 'Valeur moyenne des remises en montant' F
ROM T_LIGNE_FACTURE"
 Q10_res = "17;51"

 ## Question 11
-Q11_req = "SELECT max(LIF_REMISE_POURCENT) AS "Valeur maximale des remises en p
ourcentage", max(LIF_REMISE_MONTANT) AS "Valeur maximale des remises en montant"
-FROM T_LIGNE_FACTURE"
+Q11_req = "SELECT max(LIF_REMISE_POURCENT) AS 'Valeur maximale des remises en p
ourcentage', max(LIF_REMISE_MONTANT) AS 'Valeur maximale des remises en montant'
 FROM T_LIGNE_FACTURE"
 Q11_res = "17;51"

 ## Question 12
-Q12_req = "SELECT FAC_ID AS "fac_id1"
-FROM T_LIGNE_FACTURE
-WHERE LIF_REMISE_MONTANT>0 OR LIF_REMISE_POURCENT>0"
+Q12_req = "SELECT FAC_ID AS 'fac_id1' FROM T_LIGNE_FACTURE WHERE LIF_REMISE_MON
TANT>0 OR LIF_REMISE_POURCENT>0"


 ## Question 13
-Q13_req = "SELECT T_FACTURE.CLI_ID
```

```
-FROM T_FACTURE, T_LIGNE_FACTURE
-WHERE (LIF_REMISE_POURCENT>0 OR LIF_REMISE_MONTANT>0) AND T_FACTURE.FAC_ID=T_LI
GNE_FACTURE.FAC_ID"
+Q13_req = "SELECT T_FACTURE.CLI_ID FROM T_FACTURE, T_LIGNE_FACTURE WHERE (LIF_R
EMISE_POURCENT>0 OR LIF_REMISE_MONTANT>0) AND T_FACTURE.FAC_ID=T_LIGNE_FACTURE.F
AC_ID"

 ## Question 14
-Q14_req = "SELECT T_FACTURE.CLI_ID
-FROM T_FACTURE
-
-EXCEPT
-
-SELECT T_FACTURE.CLI_ID
-FROM T_FACTURE, T_LIGNE_FACTURE
-WHERE (LIF_REMISE_POURCENT>0 OR LIF_REMISE_MONTANT>0) AND T_FACTURE.FAC_ID=T_LI
GNE_FACTURE.FAC_ID"
+Q14_req = "SELECT T_FACTURE.CLI_ID FROM T_FACTURE EXCEPT SELECT T_FACTURE.CLI_I
D FROM T_FACTURE, T_LIGNE_FACTURE WHERE (LIF_REMISE_POURCENT>0 OR LIF_REMISE_MON
TANT>0) AND T_FACTURE.FAC_ID=T_LIGNE_FACTURE.FAC_ID"


 ## Question 15
-Q15_req = "SELECT CLI_NOM, CLI_PRENOM, max(LIF_MONTANT)*0.17
-FROM T_CLIENT, T_LIGNE_FACTURE, T_FACTURE
-WHERE T_FACTURE.FAC_ID=T_LIGNE_FACTURE.FAC_ID AND T_FACTURE.CLI_ID=T_CLIENT.CLI
_ID AND LIF_REMISE_POURCENT>0"
+Q15_req = "SELECT CLI_NOM, CLI_PRENOM, max(LIF_MONTANT)*0.17 FROM T_CLIENT, T_L
IGNE_FACTURE, T_FACTURE WHERE T_FACTURE.FAC_ID=T_LIGNE_FACTURE.FAC_ID AND T_FACT
URE.CLI_ID=T_CLIENT.CLI_ID AND LIF_REMISE_POURCENT>0"
 Q15_res ="THIRIOT,Jacky,81.6"
```

```
NOM = "Luri Vañó"
Prenom = "Jorge"
Classe = "MPSI 2"
alpha="2"

## Question 1
Q1_req = "SELECT TIT_CODE, CLI_PRENOM, CLI_NOM
FROM T_CLIENT
;;"

## Question 2
Q2_req = "SELECT COUNT()
FROM T_CLIENT
;;"
Q2_res = "97"

## Question 3
Q3_req = "SELECT CLI_PRENOM, CLI_NOM
FROM T_CLIENT
WHERE TIT_CODE="Mme."
;;"

## Question 4
Q4_req = "SELECT TIT_CODE, CLI_PRENOM, CLI_NOM
FROM T_CLIENT
WHERE TIT_CODE="Mme."

UNION

SELECT TIT_CODE, CLI_PRENOM, CLI_NOM
FROM T_CLIENT
WHERE TIT_CODE="Melle."
;;"


## Question 5
Q5_req = "SELECT COUNT()
FROM T_CLIENT
WHERE TIT_CODE="Mme." OR TIT_CODE="Melle."
;;"
Q5_res = "17"

## Question 6
Q6_req = "SELECT CLI_NOM AS "Nom", CLI_PRENOM AS "Prenom"
FROM T_CLIENT
WHERE TIT_CODE="Melle." OR TIT_CODE="Mme."
ORDER BY CLI_NOM"


## Question 7
Q7_req = "SELECT CLI_NOM AS "Nom", TEL_NUMERO AS "Numéro de téléphone"
FROM T_CLIENT, T_TELEPHONE
WHERE T_CLIENT.CLI_ID=T_TELEPHONE.CLI_ID
ORDER BY CLI_NOM"

## Question 8
Q8_req = "SELECT TIT_CODE, T_CLIENT.CLI_PRENOM, T_CLIENT.CLI_NOM
FROM T_CLIENT
WHERE T_CLIENT.CLI_NOM= (SELECT T_CLIENT.CLI_NOM FROM T_CLIENT GROUP by T_CLIENT
.CLI_NOM HAVING  COUNT(CLI_NOM)=3) OR T_CLIENT.CLI_NOM= (SELECT T_CLIENT.CLI_NOM
 FROM T_CLIENT GROUP by T_CLIENT.CLI_NOM HAVING  COUNT(CLI_NOM)=2)

"

## Question 9
Q9_req = "SELECT CLI_NOM,  COUNT(*) AS Nombre
FROM T_CLIENT
GROUP BY CLI_NOM
```

```
HAVING Nombre>=2"
Q9_res = "Benattar=2;Martin=3"


## Question 10
Q10_req = "SELECT AVG(LIF_REMISE_POURCENT) AS "Valeur moyenne des remises en pou
rcentage", AVG(LIF_REMISE_MONTANT) AS "Valeur moyenne des remises en montant"
FROM T_LIGNE_FACTURE"
Q10_res = "17;51"


## Question 11
Q11_req = "SELECT max(LIF_REMISE_POURCENT) AS "Valeur maximale des remises en po
urcentage", max(LIF_REMISE_MONTANT) AS "Valeur maximale des remises en montant"
FROM T_LIGNE_FACTURE"
Q11_res = "17;51"


## Question 12
Q12_req = "SELECT FAC_ID AS "fac_id1"
FROM T_LIGNE_FACTURE
WHERE LIF_REMISE_MONTANT>0 OR LIF_REMISE_POURCENT>0"



## Question 13
Q13_req = "SELECT T_FACTURE.CLI_ID
FROM T_FACTURE, T_LIGNE_FACTURE
WHERE (LIF_REMISE_POURCENT>0 OR LIF_REMISE_MONTANT>0) AND T_FACTURE.FAC_ID=T_LIG
NE_FACTURE.FAC_ID"

## Question 14
Q14_req = "SELECT T_FACTURE.CLI_ID
FROM T_FACTURE

EXCEPT

SELECT T_FACTURE.CLI_ID
FROM T_FACTURE, T_LIGNE_FACTURE
WHERE (LIF_REMISE_POURCENT>0 OR LIF_REMISE_MONTANT>0) AND T_FACTURE.FAC_ID=T_LIG
NE_FACTURE.FAC_ID"


## Question 15
Q15_req = "SELECT CLI_NOM, CLI_PRENOM, max(LIF_MONTANT)*0.17
FROM T_CLIENT, T_LIGNE_FACTURE, T_FACTURE
WHERE T_FACTURE.FAC_ID=T_LIGNE_FACTURE.FAC_ID AND T_FACTURE.CLI_ID=T_CLIENT.CLI_
ID AND LIF_REMISE_POURCENT>0"
Q15_res ="THIRIOT,Jacky,81.6"
```