```
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_abid
plugins: timeout-1.3.4
timeout: 60.0s
timeout method: signal
timeout func_only: False
collected 22 items

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

=================================== FAILURES ===================================
_________________________________ test_Q1_req __________________________________

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

test_TP.py:98: AssertionError
_________________________________ test_Q4_req __________________________________

    def test_Q4_req ():
>       assert requete(sol_Q4_req) == requete(Q4_req)
E       AssertionError: assert [('DUHAMEL', ... 'Mme.'), ...] == [('Melle.', '..
.Carmen'), ...]
E         At index 0 diff: ('DUHAMEL', 'Evelyne', 'Melle.') != ('Melle.', 'DUHAM
EL', 'Evelyne')
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'), ...] == [('DUPONT', '..
.-52-50'), ...]
E         At index 0 diff: ('DUPONT', '01-45-42-56-63') != ('DUPONT', 'Alain', '
01-45-42-56-63')
E         Right contains 48 more items, first extra item: ('AIACH', 'Alexandre',
 '04-91-52-51-52')
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',)] == [('MARTIN', '...'
, 'Bernard')]
E         At index 0 diff: ('BENATTAR',) != ('MARTIN', 'Marc')
E         Right contains 2 more items, first extra item: ('BENATTAR', 'Pierre')
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 '(47.0, 81.0)' == 'POURCENTAGE ...ONTANT : 81.0'
E         - (47.0, 81.0)
E         + POURCENTAGE : 47.0 ET MONTANT : 81.0
```

```
test_TP.py:131: AssertionError
_________________________________ test_Q11_res _________________________________

    def test_Q11_res ():
>       assert sol_Q11_res.upper() ==  Q11_res.upper()
E       AssertionError: assert ’(47.0, 81)’ == ’POURCENTAGE ... MONTANT : 81’
E         - (47.0, 81)
E         + POURCENTAGE : 47 ET MONTANT : 81

test_TP.py:137: AssertionError
_________________________________ test_Q14_req _________________________________

    def test_Q14_req ():
>       assert requete(sol_Q14_req) == requete(Q14_req)
E       assert [] == [(1,), (2,), ...,), (6,), ...]
E         Right contains 93 more items, first extra item: (1,)
E         Use -v to get the full diff

test_TP.py:149: AssertionError
_________________________________ test_Q15_res _________________________________

    def test_Q15_res ():
>       assert sol_Q15_res.upper() ==  Q15_res.upper()
E       assert "(’SILLET’, ’JACQUES’, 891)" == ’GÉRARD,MATHIEU,1037’
E         - (’SILLET’, ’JACQUES’, 891)
E         + GÉRARD,MATHIEU,1037

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’, 891)] == [(’MATHIEU’, ’Gér
ard’, 1037)]
E         At index 0 diff: (’SILLET’, ’Jacques’, 891) != (’MATHIEU’, ’Gérard’, 1
037)
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 "(’GARREAU’, ’PAUL’, 22)" == ’GÉRARD,MATHIEU,1037’
E         - (’GARREAU’, ’PAUL’, 22)
E         + GÉRARD,MATHIEU,1037

test_TP.py:158: AssertionError
________________________________ test_Q15_req2 _________________________________

    def test_Q15_req2 ():
>       assert requete(sol_Q15_req2) == requete(Q15_req)
E       AssertionError: assert [(’GARREAU’, ’Paul’, 22)] == [(’MATHIEU’, ’Gérard
’, 1037)]
E         At index 0 diff: (’GARREAU’, ’Paul’, 22) != (’MATHIEU’, ’Gérard’, 1037
)
E         Use -v to get the full diff

test_TP.py:161: AssertionError
======================== 11 failed, 11 passed in 0.36s =========================
NOM = "ABID"
Prenom = "Hamza"
Classe = "MPSI2"
alpha="32"

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

## Question 2
Q2_req = "SELECT COUNT(*) FROM T_CLIENT;"
Q2_res = "93"

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

## Question 4
Q4_req = "SELECT TIT_CODE, CLI_NOM, CLI_PRENOM FROM T_CLIENT WHERE TIT_CODE IN (
’Mme.’, ’Melle.’);"

## Question 5
Q5_req = "SELECT COUNT(*) FROM T_CLIENT WHERE TIT_CODE IN (’Mme.’, ’Melle.’);"
Q5_res = "16"

## Question 6
Q6_req = "SELECT CLI_NOM AS Noms, CLI_PRENOM AS Prenoms FROM T_CLIENT WHERE TIT_
CODE IN (’Mme.’, ’Melle.’) ORDER BY Noms, Prenoms ASC;"

## Question 7
Q7_req = "SELECT cl.CLI_NOM, cl.CLI_PRENOM, tel.TEL_NUMERO FROM T_CLIENT as cl I
NNER JOIN T_TELEPHONE as tel ON cl.CLI_ID = tel.CLI_ID;"

## Question 8
Q8_req = "SELECT CLI_NOM, CLI_PRENOM FROM T_CLIENT WHERE CLI_NOM IN (SELECT CLI_
NOM FROM T_CLIENT GROUP BY CLI_Nom HAVING COUNT(CLI_NOM) > 1);"

## Question 9
Q9_req = "SELECT CLI_NOM, COUNT(*) as nb_occur FROM T_CLIENT GROUP BY CLI_Nom HA
VING nb_occur > 1"
Q9_res = "(BENATTAR, 2) et (MARTIN, 2)"

## Question 10
Q10_req = "SELECT AVG(LIF_REMISE_POURCENT), AVG(LIF_REMISE_MONTANT) FROM T_LIGNE
_FACTURE;"
Q10_res = "Pourcentage : 47.0 et Montant : 81.0"

## Question 11
Q11_req = "SELECT MAX(LIF_REMISE_POURCENT), MAX(LIF_REMISE_MONTANT) FROM T_LIGNE
_FACTURE;"
Q11_res = "Pourcentage : 47 et Montant : 81"

## Question 12
Q12_req = "SELECT DISTINCT FAC_ID as fac_id1 FROM T_LIGNE_FACTURE WHERE (LIF_REM
ISE_MONTANT IS NOT NULL) OR (LIF_REMISE_POURCENT IS NOT NULL);"

## Question 13
Q13_req = "SELECT DISTINCT CLI_ID FROM T_FACTURE AS fac WHERE fac.FAC_ID IN (SEL
ECT DISTINCT FAC_ID as fac_id1 FROM T_LIGNE_FACTURE WHERE (LIF_REMISE_MONTANT IS
 NOT NULL) OR (LIF_REMISE_POURCENT IS NOT NULL));"

## Question 14
Q14_req = "SELECT DISTINCT CLI_ID FROM T_FACTURE AS fac WHERE fac.FAC_ID IN (SEL
ECT DISTINCT FAC_ID FROM T_LIGNE_FACTURE WHERE (LIF_REMISE_MONTANT IS NULL) AND
(LIF_REMISE_POURCENT IS NULL));"

## Question 15
Q15_req = "SELECT cli.CLI_NOM as nom, cli.CLI_PRENOM as prenom, SUM(LIF_REMISE_M
ONTANT)+SUM(LIF_REMISE_POURCENT) as valeur_max FROM T_FACTURE as fac INNER JOIN
T_CLIENT as cli ON fac.CLI_ID = cli.CLI_ID INNER JOIN (SELECT CLI_ID, MAX(nb) as
 max_nb FROM (SELECT CLI_ID, COUNT(*) as nb FROM T_FACTURE AS fac WHERE fac.FAC_
ID IN (SELECT DISTINCT FAC_ID as fac_id1 FROM T_LIGNE_FACTURE WHERE (LIF_REMISE_
MONTANT IS NOT NULL) OR (LIF_REMISE_POURCENT IS NOT NULL)) GROUP BY CLI_ID)) as
max_tab ON fac.CLI_ID = max_tab.CLI_ID INNER JOIN T_LIGNE_FACTURE as ligfac ON l
igfac.FAC_ID = fac.FAC_ID;"
Q15_res ="Gérard,Mathieu,1037"

# Il y avait plusieurs personnes qui ont bénéficié du plus grand nombre de remis
es or une seule était demandée.
# J’ai donc mis celle que me proposait directement sqlite
```