

db homework [D:\python\db homework] - ...test\_program\_2.py [db homework] - PyCharm

```
1 from homework_1_2 import RDBDataTable
2 import json
3
4 # Initialize the Batting table
5 batting_rdbtable = RDBDataTable("batting", "batting.csv", ["playerID", "teamID", "yearID", "stint"])
6
7 # Test find_by_primary_key
8 # If the fields is None
9 ans = batting_rdbtable.find_by_primary_key(["abbeych01", "WAS", "1897", "1"])
10 print(json.dumps(ans, indent=2))
11
12 # If the fields is not None
13 ans = batting_rdbtable.find_by_primary_key(["abbeych01", "WAS", "1897", "1"], ["playerID", "teamID", "yearID", "stint"])
14 # print(json.dumps(ans, indent=2))
15 # If the fields has values that don't exist in csv file, in the case, I use "CCCCC" to test my program
16 # ans = batting_rdbtable.find_by_primary_key(["abbeych01", "WAS", "1897", "1"], ["playerID", "teamID", "yearID", "stint", "CCCCC"])
17 # print(json.dumps(ans, indent=2))
18
```

Run: test\_program\_2

```
{
  "CS": "",
  "CIP": "",
  "AB": "300",
  "RBI": "34",
  "stint": 1,
  "yearID": "1897",
  "SO": "16",
  "SP": "",
  "HBP": "4",
  "BB": "3",
  "BB": "27",
  "teamID": "WAS",
  "BB": "14",
  "H": "78",
  "G": "80",
  "R": "82",
  "TBB": "",
  "SH": "3",
  "playerID": "abbeych01",
  "BB": "8",
  "lgID": "NL",
  "SB": "9"
}
```

161 chars, 3 line breaks 7:1 CRLF : UTF-8 : 1:53 2018/9/23

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```
7 # Test find_by_primary_key
8 # If the fields is None
9 ans = batting_rdbtable.find_by_primary_key(["abbeych01", "WAS", "1897", "1"])
10 print(json.dumps(ans, indent=2))
11
12 # If the fields is not None
13 ans = batting_rdbtable.find_by_primary_key(["abbeych01", "WAS", "1897", "1"], ["playerID", "teamID", "yearID", "stint"])
14 print(json.dumps(ans, indent=2))
15
16 # If the fields has values that don't exist in csv file, in the case, I use "CCCCC" to test my program
17 # ans = batting_rdbtable.find_by_primary_key(["abbeych01", "WAS", "1897", "1"], ["playerID", "teamID", "yearID", "stint", "CCCCC"])
18 # print(json.dumps(ans, indent=2))
19
20 # Test find_by_template
21 # If the input is correct and fields is None
22 ans = batting_rdbtable.find_by_template({"teamID": "CHN", "yearID": "2006"})
23 print(json.dumps(ans, indent=2))
24 # If the input is correct and fields is not None
25 ans = batting_rdbtable.find_by_template({"teamID": "CHN", "yearID": "2006"}, ["playerID", "yearID", "teamID",
```

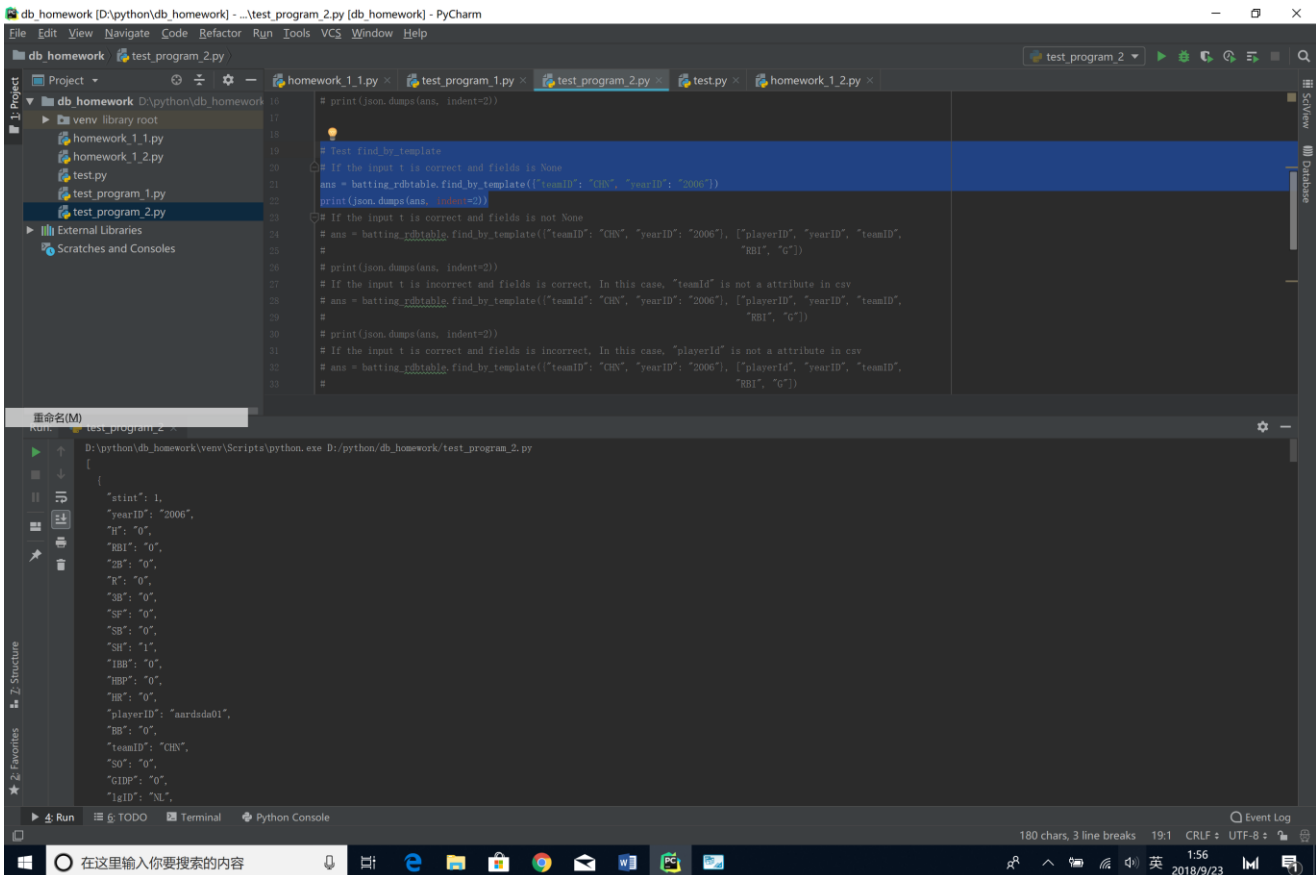
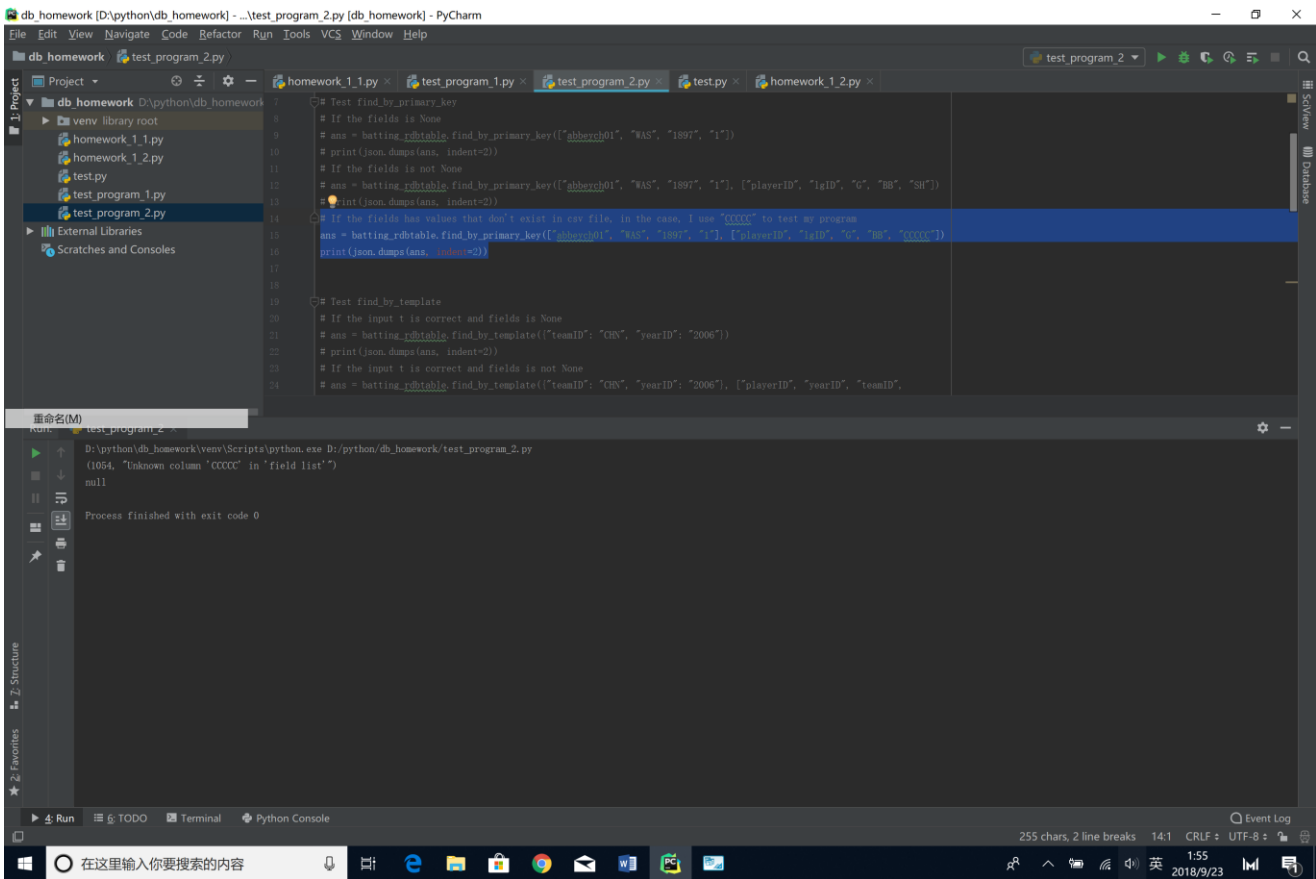
命名(M)

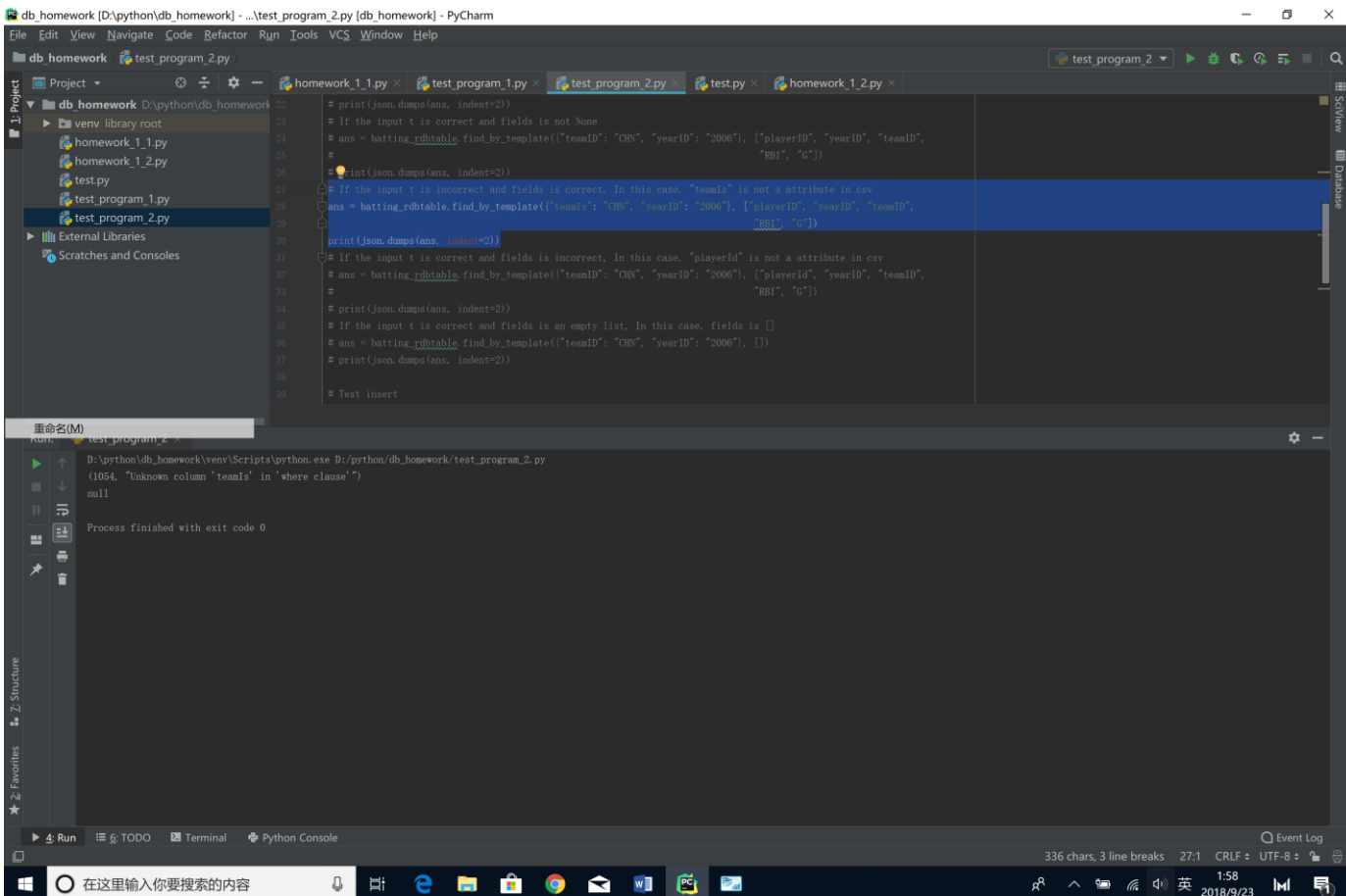
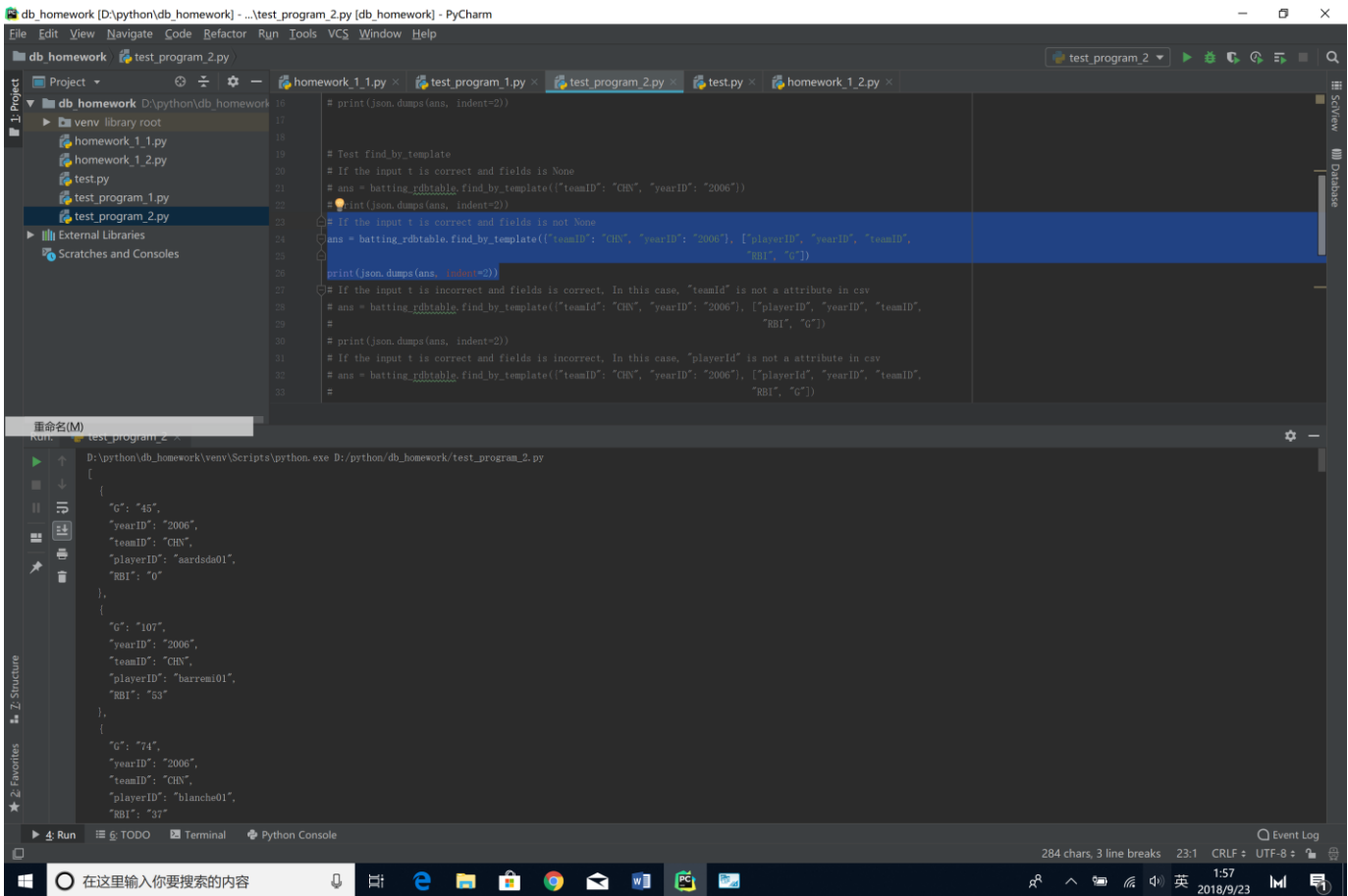
Run: test\_program\_2

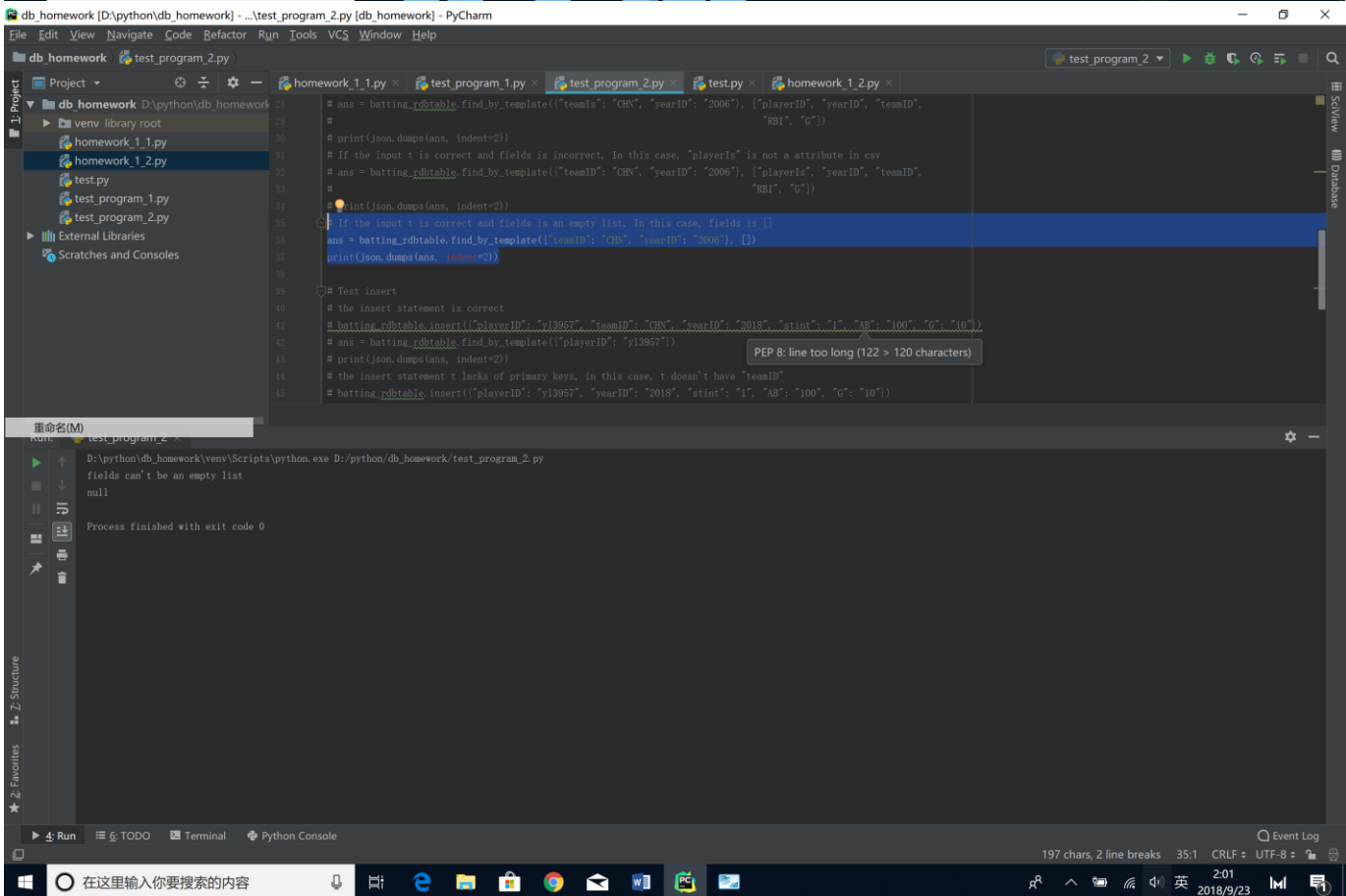
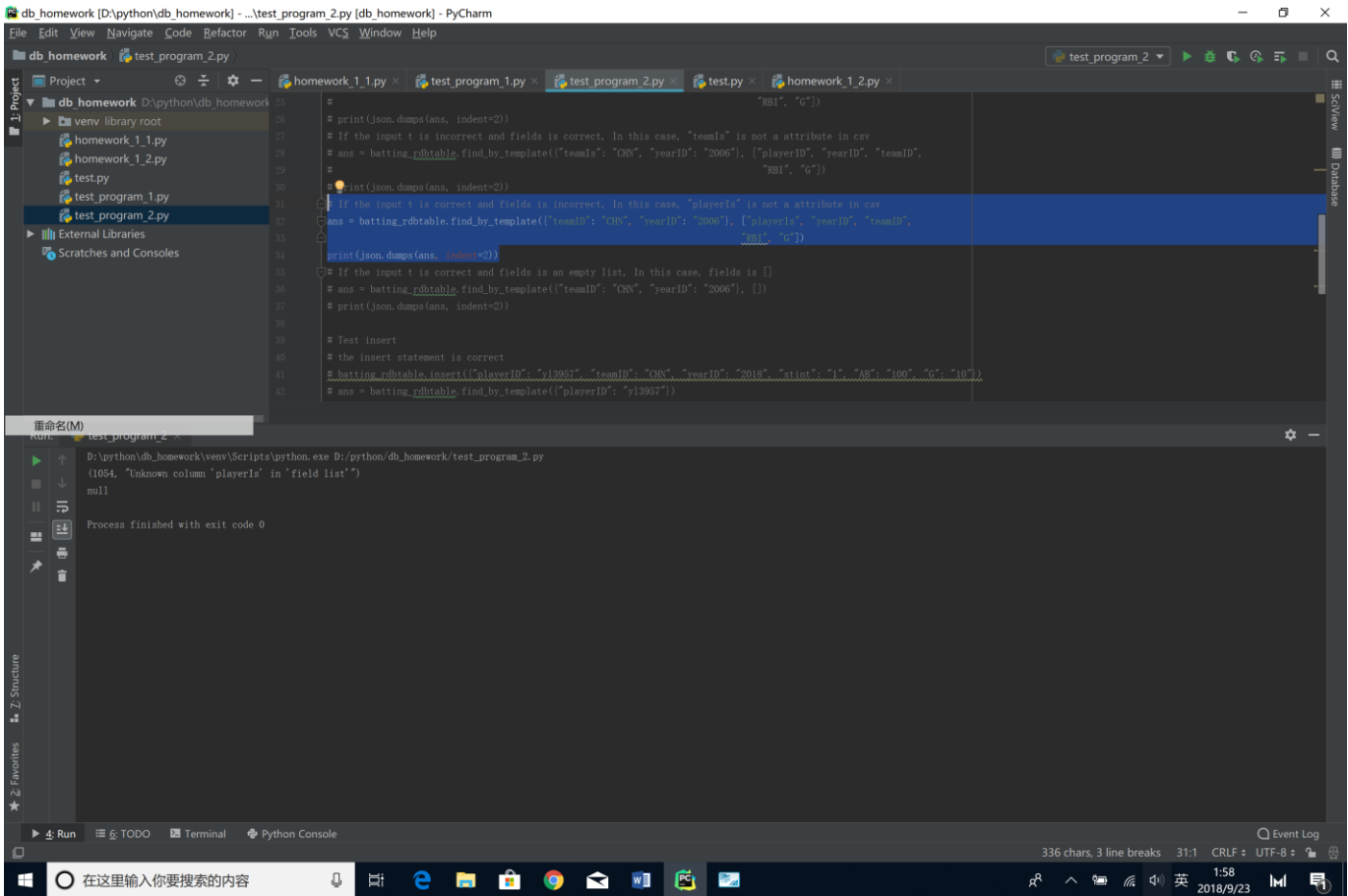
```
D:\python\db homework\venv\Scripts\python.exe D:/python/db homework/test_program_2.py
{
  "BB": "27",
  "SH": "3",
  "playerID": "abbeych01",
  "G": "80",
  "lgID": "NL"
}
```

Process finished with exit code 0

177 chars, 2 line breaks 11:1 CRLF : UTF-8 : 1:54 2018/9/23







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db\_homework test\_program\_2.py

Project db\_homework D:\python\db\_homework

venv library root

homework\_1\_1.py

homework\_1\_2.py

test.py

test\_program\_1.py

test\_program\_2.py

External Libraries

Scratches and Consoles

```
34 # print(json.dumps(ans, indent=2))
35 # If the input t is correct and fields is an empty list, in this case, fields is []
36 # ans = batting_rdtbtable.find_by_template({"playerID": "CHN", "yearID": "2006"}, [])
37 # print(json.dumps(ans, indent=2))
38
39 # Test insert
40 # the insert statement is correct
41 batting_rdtbtable.insert({"playerID": "aardsda01", "teamID": "CHN", "yearID": "2018", "stint": "1", "AB": "100", "G": "10"})
42 ans = batting_rdtbtable.find_by_template({"playerID": "aardsda01", "teamID": "CHN", "yearID": "2018", "stint": "1", "AB": "100", "G": "10"})
43 print(json.dumps(ans, indent=2))
44
45 # the insert statement t lacks of primary keys, in this case, t doesn't have "teamID"
46 batting_rdtbtable.insert({"playerID": "y13967", "yearID": "2018", "stint": "1", "AB": "100", "G": "10"})
47 # If the new row has same key as one row has in csv file, in this case, ("aardsda01", "SPN", "2004", "1")
48 # already exists in csv file
49 batting_rdtbtable.insert({"playerID": "aardsda01", "teamID": "SPN", "yearID": "2004", "stint": "1", "AB": "100"})
50 # If t has attributes that don't exist in csv file, in this case, "CCCCC" doesn't exist in csv file
51 batting_rdtbtable.insert({"playerID": "aardsda01", "teamID": "CHN", "yearID": "2004", "stint": "1", "CCCCC": "100"})
52 # If t has primary keys that are null
```

重命名(M)

test\_program\_2.py

```
D:\python\db_homework\venv\Scripts\python.exe D:\python\db_homework/test_program_2.py
(1062, "Duplicate entry 'aardsda01-2018-1-CHN' for key 'PRIMARY'")
{
  "lgID": null,
  "3B": null,
  "yearID": "2018",
  "R": null,
  "2B": null,
  "G": "10",
  "SB": null,
  "HBP": null,
  "SF": null,
  "playerID": "aardsda01",
  "teamID": "CHN",
  "IBB": null,
  "SH": null,
  "stint": 1,
  "SO": null,
  "BB": null,
  "HR": null,
  "AB": "100",
}
```

344 chars, 4 line breaks 39:1 CRLF: UTF-8 2:04 2018/9/23

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db\_homework test\_program\_2.py

Project db\_homework D:\python\db\_homework

venv library root

homework\_1\_1.py

homework\_1\_2.py

test.py

test\_program\_1.py

test\_program\_2.py

External Libraries

Scratches and Consoles

```
40 # the insert statement is correct
41 # batting_rdtbtable.insert({"playerID": "aardsda01", "teamID": "CHN", "yearID": "2018", "stint": "1", "AB": "100", "G": "10"})
42 # ans = batting_rdtbtable.find_by_template({"playerID": "aardsda01", "teamID": "CHN", "yearID": "2018", "stint": "1", "AB": "100", "G": "10"})
43 # print(json.dumps(ans, indent=2))
44
45 # the insert statement t lacks of primary keys, in this case, t doesn't have "teamID"
46 batting_rdtbtable.insert({"playerID": "aardsda01", "yearID": "2018", "stint": "1", "AB": "100", "G": "10"})
47 # If the new row has same key as one row has in csv file, in this case, ("aardsda01", "SPN", "2004", "1")
48 # already exists in csv file
49 batting_rdtbtable.insert({"playerID": "aardsda01", "teamID": "SPN", "yearID": "2004", "stint": "1", "AB": "100"})
50 # If t has attributes that don't exist in csv file, in this case, "CCCCC" doesn't exist in csv file
51 batting_rdtbtable.insert({"playerID": "aardsda01", "teamID": "CHN", "yearID": "2004", "stint": "1", "CCCCC": "100"})
52 # If t has primary keys that are null
53 batting_rdtbtable.insert({"playerID": "aardsda01", "teamID": "", "yearID": "2004", "stint": "1"})
54
55 # test delete
56 # If the deletion statement t is correct
57 batting_rdtbtable.delete({"playerID": "aardsda01", "yearID": "2004", "stint": "1"})
58 ans = batting_rdtbtable.find_by_template({"playerID": "aardsda01", "yearID": "2004", "stint": "1"})
```

重命名(M)

test\_program\_2.py

```
D:\python\db_homework\venv\Scripts\python.exe D:\python\db_homework/test_program_2.py
(1364, "Field 'teamID' doesn't have a default value")
Process finished with exit code 0
```

192 chars, 1 line break 44:1 CRLF: UTF-8 2:05 2018/9/23

