

Homework 1.2 Report

Data Set 1

Schema

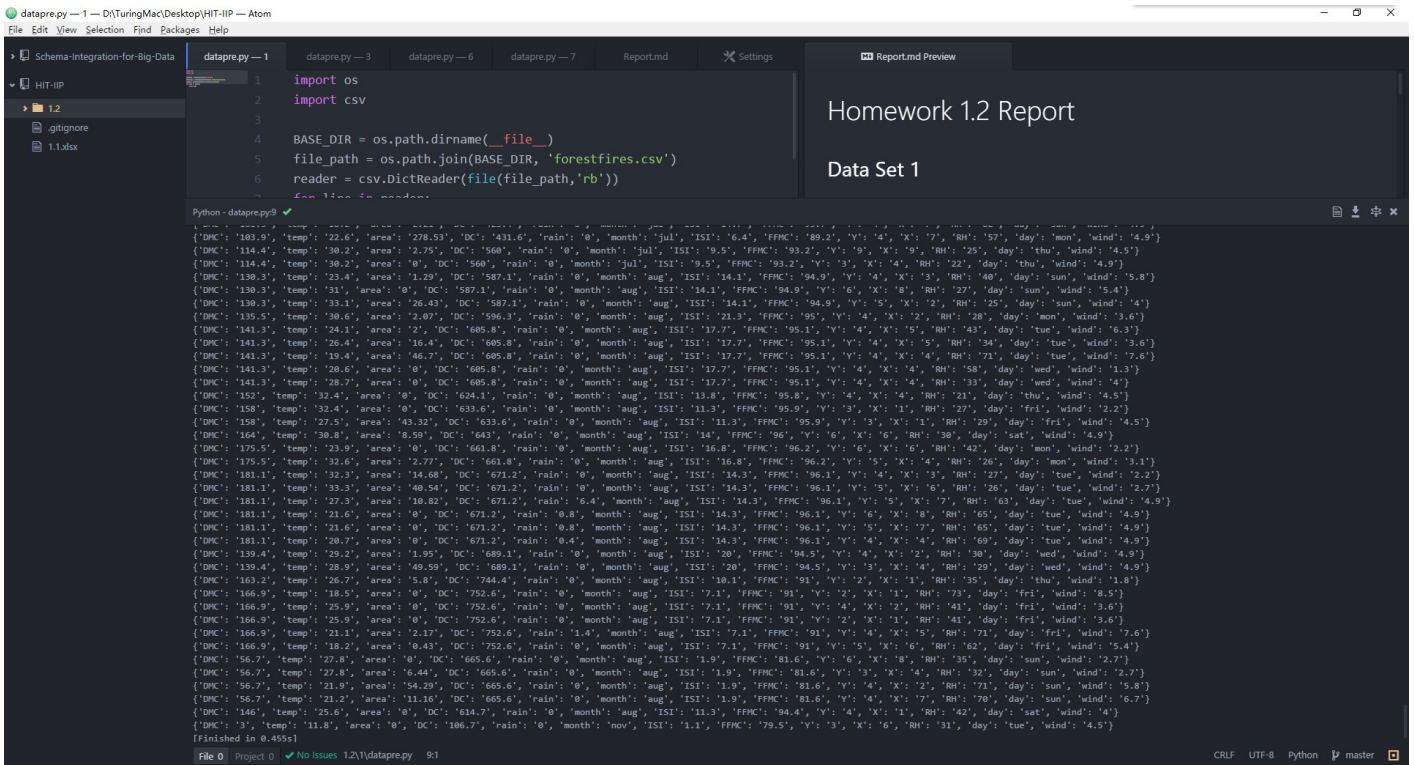
e.g.

```
{ 'DMC': '3',  
  'temp': '11.8',  
  'area': '0',  
  'DC': '106.7',  
  'rain': '0',  
  'month': 'nov',  
  'ISI': '1.1',  
  'FFMC': '79.5',  
  'Y': '3',  
  'X': '6',  
  'RH': '31',  
  'day': 'tue',  
  'wind': '4.5' }
```

Description

- X - x-axis spatial coordinate within the Montesinho park map: 1 to 9
- Y - y-axis spatial coordinate within the Montesinho park map: 2 to 9
- month - month of the year: "jan" to "dec"
- day - day of the week: "mon" to "sun"
- FFMC - FFMC index from the FWI system: 18.7 to 96.20
- DMC - DMC index from the FWI system: 1.1 to 291.3
- DC - DC index from the FWI system: 7.9 to 860.6
- ISI - ISI index from the FWI system: 0.0 to 56.10
- temp - temperature in Celsius degrees: 2.2 to 33.30
- RH - relative humidity in %: 15.0 to 100
- wind - wind speed in km/h: 0.40 to 9.40
- rain - outside rain in mm/m2: 0.0 to 6.4
- area - the burned area of the forest (in ha): 0.00 to 1090.84

Running Snap



Data Set 3

Schema

e.g.

```
{'Telephone': 'A191',
'PresentEmployment': 'A71',
'OtherInstallment': 'A143',
'Property': 'A123',
'Duration': '45',
'Installment': '3',
'ExistingCredits': '1',
'Age': '27',
'Debtors': 'A101',
'Job': 'A173',
'PersonalStatus': 'A93',
'Checking': 'A12',
'Savings': 'A62',
'LiabilePeople': '1',
'Purpose': 'A41',
'PresentResidence': '4',
'CreditHistory': 'A34',
'CreditAmount': '4576',
'Housing': 'A152',
'CostMatrix': '1',
'ForeignWorker': 'A201'}
```

Description

- Attribute 1: (qualitative) Status of existing checking account
- Attribute 2: (numerical) Duration in month
- Attribute 3: (qualitative) Credit history
- Attribute 4: (qualitative) Purpose
- Attribute 5: (numerical) Credit amount
- Attribute 6: (qualitative) Savings account/bonds
- Attribute 7: (qualitative) Present employment since
- Attribute 8: (numerical) Installment rate in percentage of disposable income
- Attribute 9: (qualitative)
- Attribute 10: (qualitative) Other debtors / guarantors
- Attribute 11: (numerical) Present residence since
- Attribute 12: (qualitative) Property
- Attribute 13: (numerical) Age in years
- Attribute 14: (qualitative) Other installment plans
- Attribute 15: (qualitative) Housing
- Attribute 16: (numerical) Number of existing credits at this bank
- Attribute 17: (qualitative) Job
- Attribute 18: (numerical) Number of people being liable to provide maintenance for
- Attribute 19: (qualitative) Telephone
- Attribute 20: (qualitative) foreign worker

Running Snap

The screenshot shows a code editor with a file explorer on the left and a schema preview on the right. The file explorer shows a project named 'data-pre.py' with a subdirectory 'HIT-IP' containing files like '1.2', '1', '2', '3', '4', '5', '6', '7', '8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20', '21', '22', '23', '24', '25', '26', '27', '28', '29', '30', '31', '32', '33', '34', '35', '36', '37', '38', '39', '40', '41', '42', '43', '44', '45', '46', '47', '48', '49', '50', '51', '52', '53', '54', '55', '56', '57', '58', '59', '60', '61', '62', '63', '64', '65', '66', '67', '68', '69', '70', '71', '72', '73', '74', '75', '76', '77', '78', '79', '80', '81', '82', '83', '84', '85', '86', '87', '88', '89', '90', '91', '92', '93', '94', '95', '96', '97', '98', '99', '100'. The main editor shows a Python script with the following code:

```
import os
import csv
```

```
Python - data-pre.py12 ✓
[{"telephone": "A191", "presentEmployment": "A72", "otherInstallment": "A143", "property": "A122", "duration": "18", "installment": "4", "existingCredits": "2", "age": "42", "debtors": "A101", "job": "A173", "personalStatus": "A93",
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  "checking": "A11", "savings": "A65", "liablePeople": "1", "purpose": "A43", "presentResidence": "4", "creditHistory": "A32", "creditAmount": "1936", "housing": "A151", "costMatrix": "1", "foreignWorker": "A201"},
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  "checking": "A14", "savings": "A65", "liablePeople": "1", "purpose": "A40", "presentResidence": "3", "creditHistory": "A32", "creditAmount": "2390", "housing": "A152", "costMatrix": "1", "foreignWorker": "A201"},
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  "checking": "A14", "savings": "A61", "liablePeople": "1", "purpose": "A42", "presentResidence": "4", "creditHistory": "A32", "creditAmount": "1736", "housing": "A152", "costMatrix": "1", "foreignWorker": "A201"},
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  "checking": "A11", "savings": "A61", "liablePeople": "1", "purpose": "A43", "presentResidence": "4", "creditHistory": "A32", "creditAmount": "1845", "housing": "A153", "costMatrix": "2", "foreignWorker": "A201"}]
```

The schema preview on the right shows a table with columns: telephone, presentEmployment, otherInstallment, property, duration, installment, existingCredits, age, debtors, job, personalStatus, checking, savings, liablePeople, purpose, presentResidence, creditHistory, creditAmount, housing, costMatrix, foreignWorker.

Data Set 6

Schema

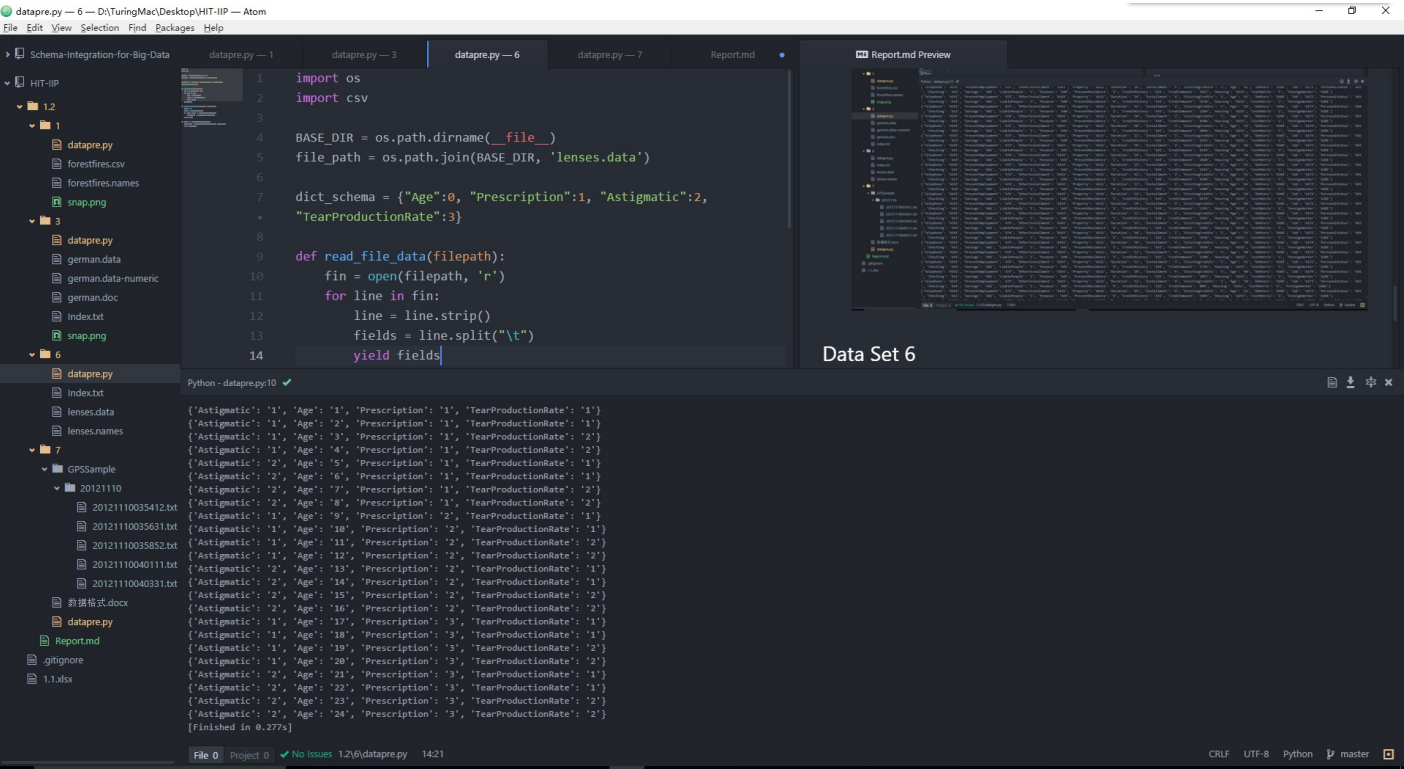
e.g.

```
{'Astigmatic': '2',
'Age': '24',
'Prescription': '3',
'TearProductionRate': '2'}
```

Description

- age of the patient: (1) young, (2) pre-presbyopic, (3) presbyopic
- spectacle prescription: (1) myope, (2) hypermetrope
- astigmatic: (1) no, (2) yes
- tear production rate: (1) reduced, (2) normal

Running Snap



Data Set 7

Schema

e.g.

```
{'Status': '2',
'GPSTime': '20121110041930',
'GPSLongitude': '116.1443863',
'Car': '487167',
```



```
'GPSDirection': '330',
'GPSStatus': '1',
'Trigger': '4',
'GPSVelocity': '0',
'GPSLatitude': '39.7503967'}
```

Description

- Car: 车辆标识 6个字符
- Trigger: 触发事件 0=变空车, 1=变载客, 2=设防, 3=撤防, 4=其它
- Status: 运营状态 0=空车, 1=载客, 2=驻车, 3=停运, 4=其它
- GPSTime: GPS时间 格式yyyymmddhhnss, 北京时间
- GPSLongitude: GPS经度 格式ddd.ddddddd, 以度为单位
- GPSLatitude: GPS纬度 格式dd.ddddddd, 以度为单位
- GPSVelocity: GPS速度 格式ddd, 取值000-255内整数, 以公里/小时为单位
- GPSDirection: GPS方位 格式ddd, 取值000-360内整数, 以度为单位
- GPSStatus: GPS状态 0=无效, 1=有效

Running Snap

```
datapre.py — 7 — D:\TuringMac\Desktop\HIT-IP — Atom
File Edit View Selection Find Packages Help

Schema-Integration-for-Big-Data  datapre.py — 1  datapre.py — 3  datapre.py — 6  datapre.py — 7  Report.md  Report.md Preview
HIT-IP
12
1
1
datapre.py
forestfires.csv
forestfires.names
snap.png
3
datapre.py
german.data
german.data-numeric
german.doc
Index.txt
Index.txt
snap.png
6
datapre.py
Index.txt
lenses.data
lenses.names
snap.png
7
GPSSample
20121110
20121110035412.txt
20121110035631.txt
20121110035852.txt
20121110040111.txt
20121110040331.txt
数据格式.docx
数据格式.docx
datapre.py
Report.md
.gitignore
1.1.xlsx

Python - datapre.py:15
1 import os
2 import csv

[{'Status': '0', 'GPSTime': '20121110040856', 'GPSLongitude': '116.3264302', 'Car': '156453', 'GPSDirection': '340', 'GPSStatus': '1', 'Trigger': '4', 'GPSVelocity': '0', 'GPSLatitude': '39.868555'},
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{'Status': '2', 'GPSTime': '20121110040857', 'GPSLongitude': '116.0809860', 'Car': '566841', 'GPSDirection': '114', 'GPSStatus': '0', 'Trigger': '4', 'GPSVelocity': '0', 'GPSLatitude': '39.7710724'},
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