

3주차 실습 보고서



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1. 103p 실습

In [87]: exam.describe()

Out[87]:

	id	nclass	math	english	science
count	20.00000	20.000000	20.000000	20.000000	20.000000
mean	10.50000	3.000000	57.450000	84.900000	59.450000
std	5.91608	1.450953	20.299015	12.875517	25.292968
min	1.00000	1.000000	20.000000	56.000000	12.000000
25%	5.75000	2.000000	45.750000	78.000000	45.000000
50%	10.50000	3.000000	54.000000	86.500000	62.500000
75%	15.25000	4.000000	75.750000	98.000000	78.000000
max	20.00000	5.000000	90.000000	98.000000	98.000000

2. 108p 실습

```
In [11]: mpg.describe(include='all')
```

```
Out[11]:
```

	manufacturer	model	displ	year	cyl	trans	drv	cty	hwy	fl	category
count	234	234	234.000000	234.000000	234.000000	234	234	234.000000	234.000000	234	234
unique	15	38	NaN	NaN	NaN	10	3	NaN	NaN	5	7
top	dodge	caravan 2wd	NaN	NaN	NaN	auto(14)	f	NaN	NaN	r	suv
freq	37	11	NaN	NaN	NaN	83	106	NaN	NaN	168	62
mean	NaN	NaN	3.471795	2003.500000	5.888889	NaN	NaN	16.858974	23.440171	NaN	NaN
std	NaN	NaN	1.291955	4.509646	1.611534	NaN	NaN	4.255946	5.954643	NaN	NaN
min	NaN	NaN	1.600000	1999.000000	4.000000	NaN	NaN	9.000000	12.000000	NaN	NaN
25%	NaN	NaN	2.400000	1999.000000	4.000000	NaN	NaN	14.000000	18.000000	NaN	NaN
50%	NaN	NaN	3.300000	2003.500000	6.000000	NaN	NaN	17.000000	24.000000	NaN	NaN
75%	NaN	NaN	4.600000	2008.000000	8.000000	NaN	NaN	19.000000	27.000000	NaN	NaN
max	NaN	NaN	7.000000	2008.000000	8.000000	NaN	NaN	35.000000	44.000000	NaN	NaN

click to scroll

3. 110p 3번 실습

localhost:8888/notebooks/chap5/week3.ipynb#

Read the [migration plan](#) to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that ' might break some of your extensions.

jupyter week3 Last Checkpoint: 8분 전 (autosaved)

File Edit View Insert Cell Kernel Help Trusted

Run Code

hwy -0.766020 -0.002158 -0.761912 0.955916 1.000000

```
In [88]: var = [1, 2, 3]
var.head()
```

AttributeError Traceback (most recent call last)

Cell In[88], line 2

```
1 var = [1, 2, 3]
----> 2 var.head()
```

AttributeError: 'list' object has no attribute 'head'

4. 124p 2번 실습

localhost:8888/notebooks/chap5/week3.ipynb#

ad [the migration plan](#) to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to might break some of your extensions.

jupyter week3 Last Checkpoint: 8분 전 (autosaved) Logout

File Edit View Insert Cell Kernel Help Trusted Python 3 (ipykernel) C

3	audi	a4	2.0	2008	4	auto(av)	f	21	30	p	compact	25.5	pass	B
4	audi	a4	2.8	1999	6	auto(l5)	f	16	26	p	compact	21.0	pass	B

```
In [34]: count_grade = mpg['grade'].value_counts()
count_grade
```

```
Out[34]: grade
B      118
C      106
A       10
Name: count, dtype: int64
```