```
In [1]: import numpy as np
        import pandas as pd
```

```
In [4]: df=pd.read_csv('time_dim.csv')
```

```
In [5]: df.head()
```

Out[5]:

	time_key	date	hour	day	week	month	quarter	year
0	T00001	20-05-2017 14:56	14	20	3rd Week	5	Q2	2017
1	T00002	30-01-2015 22:14	22	30	4th Week	1	Q1	2015
2	T00003	14-03-2020 02:34	2	14	2nd Week	3	Q1	2020
3	T00004	27-04-2018 12:19	12	27	4th Week	4	Q2	2018
4	T00005	14-04-2018 10:43	10	14	2nd Week	4	Q2	2018

```
In [6]: df.describe()
```

Out[6]:

	hour	day	month	year
count	99999.000000	99999.000000	99999.000000	99999.000000
mean	11.541605	15.763108	6.517185	2017.051041
std	6.912236	8.802384	3.449301	2.013111
min	0.000000	1.000000	1.000000	2014.000000
25%	6.000000	8.000000	4.000000	2015.000000
50%	12.000000	16.000000	7.000000	2017.000000
75%	18.000000	23.000000	10.000000	2019.000000
max	23.000000	31.000000	12.000000	2021.000000

```
In [7]: df.size
```

Out[7]: 799992

```
In [8]: df.shape
```

Out[8]: (99999, 8)

```
In [9]: df.columns
```

Out[9]: Index(['time_key', 'date', 'hour', 'day', 'week', 'month', 'quarter', 'year'], dtype='object')

```
In [10]: df.rows
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call las
t)
~\AppData\Local\Temp\ipykernel_2176\3342542040.py in ?()
----> 1 df.rows

~\Ana1\Lib\site-packages\pandas\core\generic.py in ?(self, name)
   5985                 and name not in self._accessors
   5986                 and self._info_axis._can_hold_identifiers_and_holds_na
me(name)
   5987             ):
   5988                 return self[name]
-> 5989         return object.__getattribute__(self, name)

AttributeError: 'DataFrame' object has no attribute 'rows'
```

```
In [12]: pd.isnull(df)
```

Out[12]:

	time_key	date	hour	day	week	month	quarter	year
0	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False
...	...	...	...	...	...	...	...	...
99994	False	False	False	False	False	False	False	False
99995	False	False	False	False	False	False	False	False
99996	False	False	False	False	False	False	False	False
99997	False	False	False	False	False	False	False	False
99998	False	False	False	False	False	False	False	False

99999 rows × 8 columns

```
In [14]: pd.isnull(pd)
```

Out[14]: False

```
In [15]: pd.notnull(pd)
```

Out[15]: True

```
In [16]: pd.notnull(df)
```

Out[16]:

	time_key	date	hour	day	week	month	quarter	year
0	True	True	True	True	True	True	True	True
1	True	True	True	True	True	True	True	True
2	True	True	True	True	True	True	True	True
3	True	True	True	True	True	True	True	True
4	True	True	True	True	True	True	True	True
...	...	...	...	...	...	...	...	...
99994	True	True	True	True	True	True	True	True
99995	True	True	True	True	True	True	True	True
99996	True	True	True	True	True	True	True	True
99997	True	True	True	True	True	True	True	True
99998	True	True	True	True	True	True	True	True

99999 rows × 8 columns

```
In [17]: df.index
```

Out[17]: RangeIndex(start=0, stop=99999, step=1)

```
In [ ]:
```