

Overview of the DataSet

SpaceX has gained worldwide attention for a series of historic milestones.

It is the only private company ever to return a spacecraft from low-earth orbit, which it first accomplished in December 2010. SpaceX advertises Falcon 9 rocket launches on its website with a cost of 62 million dollars whereas other providers cost upward of 165 million dollars each, much of the savings is because Space X can reuse the first stage.

Therefore if we can determine if the first stage will land, we can determine the cost of a launch.

This information can be used if an alternate company wants to bid against SpaceX for a rocket launch.

This dataset includes a record for each payload carried during a SpaceX mission into outer space.

In []:

Download the datasets

This assignment requires you to load the spacex dataset.

In many cases the dataset to be analyzed is available as a .CSV (comma separated values) file, perhaps on the internet. Click on the link below to download and save the dataset (.CSV file):

[Spacex DataSet](#)

In [1]:

```
!pip install ibm_db
!pip install ibm_db_sa
!pip install ipython-sql
!pip install sqlalchemy==2.0

print('Done')
```

Requirement already satisfied: ibm_db in /opt/conda/lib/python3.11/site-packages (3.2.3)
Requirement already satisfied: ibm_db_sa in /opt/conda/lib/python3.11/site-packages (0.4.1)
Requirement already satisfied: sqlalchemy>=0.7.3 in /opt/conda/lib/python3.11/site-packages (from ibm_db_sa) (2.0.0)
Requirement already satisfied: ibm-db>=2.0.0 in /opt/conda/lib/python3.11/site-packages (from ibm_db_sa) (3.2.3)
Requirement already satisfied: typing-extensions>=4.2.0 in /opt/conda/lib/python3.11/site-packages (from sqlalchemy>=0.7.3->ibm_db_sa) (4.12.2)
Requirement already satisfied: greenlet!=0.4.17 in /opt/conda/lib/python3.11/site-packages (from sqlalchemy>=0.7.3->ibm_db_sa) (3.0.3)
Requirement already satisfied: ipython-sql in /opt/conda/lib/python3.11/site-packages (0.5.0)
Requirement already satisfied: prettytable in /opt/conda/lib/python3.11/site-packages (from ipython-sql) (3.12.0)
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Requirement already satisfied: sqlalchemy>=2.0 in /opt/conda/lib/python3.11/site-packages (from ipython-sql) (2.0.0)
Requirement already satisfied: sqlparse in /opt/conda/lib/python3.11/site-packages (from ipython-sql) (0.5.2)
Requirement already satisfied: six in /opt/conda/lib/python3.11/site-packages (from ipython-sql) (1.16.0)
Requirement already satisfied: ipython-genutils in /opt/conda/lib/python3.11/site-packages (from ipython-sql) (0.2.0)
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Requirement already satisfied: decorator in /opt/conda/lib/python3.11/site-packages (from ipython->ipython-sql) (5.1.1)
Requirement already satisfied: jedi>=0.16 in /opt/conda/lib/python3.11/site-packages (from ipython->ipython-sql) (0.19.1)
Requirement already satisfied: matplotlib-inline in /opt/conda/lib/python3.11/site-packages (from ipython->ipython-sql) (0.1.7)
Requirement already satisfied: prompt-toolkit<3.1.0,>=3.0.41 in /opt/conda/lib/python3.11/site-packages (from ipython->ipython-sql) (3.0.42)
Requirement already satisfied: pygments>=2.4.0 in /opt/conda/lib/python3.11/site-packages (from ipython->ipython-sql) (2.18.0)
Requirement already satisfied: stack-data in /opt/conda/lib/python3.11/site-packages (from ipython->ipython-sql) (0.6.2)
Requirement already satisfied: traitlets>=5.13.0 in /opt/conda/lib/python3.11/site-packages (from ipython->ipython-sql) (5.14.3)
Requirement already satisfied: pexpect>4.3 in /opt/conda/lib/python3.11/site-packages (from ipython->ipython-sql) (4.9.0)

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Requirement already satisfied: wcwidth in /opt/conda/lib/python3.11/site-packages (from prettytable->ipython-sql) (0.2.13)
Requirement already satisfied: parso<0.9.0,>=0.8.3 in /opt/conda/lib/python3.11/site-packages (from jedi=>ipython->ipython-sql) (0.8.4)
Requirement already satisfied: ptyprocess>=0.5 in /opt/conda/lib/python3.11/site-packages (from pexpect>4.3->ipython->ipython-sql) (0.7.0)
Requirement already satisfied: executing>=1.2.0 in /opt/conda/lib/python3.11/site-packages (from stack-data->ipython->ipython-sql) (2.0.1)
Requirement already satisfied: asttokens>=2.1.0 in /opt/conda/lib/python3.11/site-packages (from stack-data->ipython->ipython-sql) (2.4.1)
Requirement already satisfied: pure-eval in /opt/conda/lib/python3.11/site-packages (from stack-data->ipython->ipython-sql) (0.2.2)
Requirement already satisfied: sqlalchemy==2.0 in /opt/conda/lib/python3.11/site-packages (2.0.0)
Requirement already satisfied: typing-extensions>=4.2.0 in /opt/conda/lib/python3.11/site-packages (from sqlalchemy==2.0) (4.12.2)
Requirement already satisfied: greenlet!=0.4.17 in /opt/conda/lib/python3.11/site-packages (from sqlalchemy==2.0) (3.0.3)
Done
```

In []:

Connect to the database

Let us first load the SQL extension and establish a connection with the database

```
In [2]: %load_ext sql
        print("done")
```

done

```
In [3]: %sql ibm_db_sa://
        print("done")
```

Traceback (most recent call last):

```

File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/base.py", line 145, in __init__
    self._dbapi_connection = engine.raw_connection()
                             ~~~~~^
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/base.py", line 3269, in raw_connection
    return self.pool.connect()
           ~~~~~^
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 452, in connect
    return _ConnectionFairy._checkout(self)
           ~~~~~^
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 1255, in _checkout
    fairy = _ConnectionRecord.checkout(pool)
           ~~~~~^
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 716, in checkout
    rec = pool._do_get()
           ~~~~~^
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/impl.py", line 168, in _do_get
    with util.safe_reraise():
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/util/langhelpers.py", line 147, in __exit__
    raise exc_value.with_traceback(exc_tb)
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/impl.py", line 166, in _do_get
    return self._create_connection()
           ~~~~~^
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 393, in _create_connection
    return _ConnectionRecord(self)
           ~~~~~^
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 678, in __init__
    self.__connect()
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 902, in __connect
    with util.safe_reraise():
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/util/langhelpers.py", line 147, in __exit__
    raise exc_value.with_traceback(exc_tb)
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 898, in __connect
    self.dbapi_connection = connection = pool._invoke_creator(self)
                             ~~~~~^
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/create.py", line 640, in connect
    return dialect.connect(*cargs, **cparams)
           ~~~~~^
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/default.py", line 580, in connect
    return self.loaded_dbapi.connect(*cargs, **cparams)
           ~~~~~^
File "/opt/conda/lib/python3.11/site-packages/ibm_db_dbi.py", line 591, in connect

```

```
raise InterfaceError("connect expects a not None dsn value")
ibm_db_dbi.InterfaceError: ibm_db_dbi::InterfaceError: connect expects a not None dsn value
```

The above exception was the direct cause of the following exception:

Traceback (most recent call last):

```
File "/opt/conda/lib/python3.11/site-packages/sql/magic.py", line 196, in execute
    conn = sql.connection.Connection.set(
            ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sql/connection.py", line 70, in set
    cls.current = existing or Connection(descriptor, connect_args, creator)
            ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sql/connection.py", line 55, in __init__
    self.internal_connection = engine.connect()
            ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/base.py", line 3245, in connect
    return self._connection_cls(self)
            ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/base.py", line 147, in __init__
    Connection._handle_dbapi_exception_noconnection(
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/base.py", line 2410, in _handle_dbapi_exception_noconnection
    raise sqlalchemy_exception.with_traceback(exc_info[2]) from e
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/base.py", line 145, in __init__
    self._dbapi_connection = engine.raw_connection()
            ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/base.py", line 3269, in raw_connection
    return self.pool.connect()
            ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 452, in connect
    return _ConnectionFairy._checkout(self)
            ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 1255, in _checkout
    fairy = _ConnectionRecord.checkout(pool)
            ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 716, in checkout
    rec = pool._do_get()
            ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/impl.py", line 168, in _do_get
    with util.safe_reraise():
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/util/langhelpers.py", line 147, in __exit__
    raise exc_value.with_traceback(exc_tb)
```

```

File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/impl.py", line 166, in _do_get
    return self._create_connection()
    ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 393, in _create_connection
    return _ConnectionRecord(self)
    ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 678, in __init__
    self.__connect()
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 902, in __connect
    with util.safe_reraise():
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/util/langhelpers.py", line 147, in __exit__
    raise exc_value.with_traceback(exc_tb)
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/pool/base.py", line 898, in __connect
    self.dbapi_connection = connection = pool._invoke_creator(self)
    ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/create.py", line 640, in connect
    return dialect.connect(*cargs, **cparams)
    ~~~~~
File "/opt/conda/lib/python3.11/site-packages/sqlalchemy/engine/default.py", line 580, in connect
    return self.loaded_dbapi.connect(*cargs, **cparams)
    ~~~~~
File "/opt/conda/lib/python3.11/site-packages/ibm_db_dbapi.py", line 591, in connect
    raise InterfaceError("connect expects a not None dsn value")
sqlalchemy.exc.InterfaceError: (ibm_db_dbapi.InterfaceError) ibm_db_dbapi::InterfaceError: connect expects a not None dsn value
(Background on this error at: https://sqlalche.me/e/20/rvf5)

Connection info needed in SQLAlchemy format, example:
    postgresql://username:password@hostname/dbname
    or an existing connection: dict_keys([])
done

```

In []:

In [4]: **import** csv, sqlite3

```

con = sqlite3.connect("my_data1.db")
cur = con.cursor()
print("Done")

```

#checking connectons

import sqlite3 **as** mdb

```
def chk_conn(conn):  
    try:  
        conn.cursor()  
        return True  
    except Exception as ex:  
        return False  
  
myconn = mdb.connect('test.db')  
print(chk_conn(myconn))
```

Done

True

```
In [5]: !pip install -q pandas==1.1.5  
print("Done")
```

error: subprocess-exited-with-error

× Building wheel for pandas (pyproject.toml) did not run successfully.

exit code: 1

↳ [1155 lines of output]

<string>:19: DeprecationWarning: pkg_resources is deprecated as an API. See https://setuptools.pypa.io/en/latest/pkg_resources.html

<string>:45: DeprecationWarning: distutils Version classes are deprecated. Use packaging.version instead.

running bdist_wheel

running build

running build_py

creating build/lib/linux-x86_64-cpython-311/pandas

copying pandas/_typing.py -> build/lib/linux-x86_64-cpython-311/pandas

copying pandas/conftest.py -> build/lib/linux-x86_64-cpython-311/pandas

copying pandas/testing.py -> build/lib/linux-x86_64-cpython-311/pandas

copying pandas/_version.py -> build/lib/linux-x86_64-cpython-311/pandas

copying pandas/__init__.py -> build/lib/linux-x86_64-cpython-311/pandas

copying pandas/_testing.py -> build/lib/linux-x86_64-cpython-311/pandas

creating build/lib/linux-x86_64-cpython-311/pandas/compat

copying pandas/compat/_optional.py -> build/lib/linux-x86_64-cpython-311/pandas/compat

copying pandas/compat/pickle_compat.py -> build/lib/linux-x86_64-cpython-311/pandas/compat

copying pandas/compat/chainmap.py -> build/lib/linux-x86_64-cpython-311/pandas/compat

copying pandas/compat/__init__.py -> build/lib/linux-x86_64-cpython-311/pandas/compat

creating build/lib/linux-x86_64-cpython-311/pandas/tseries

copying pandas/tseries/holiday.py -> build/lib/linux-x86_64-cpython-311/pandas/tseries

copying pandas/tseries/offsets.py -> build/lib/linux-x86_64-cpython-311/pandas/tseries

copying pandas/tseries/api.py -> build/lib/linux-x86_64-cpython-311/pandas/tseries

copying pandas/tseries/frequencies.py -> build/lib/linux-x86_64-cpython-311/pandas/tseries

copying pandas/tseries/__init__.py -> build/lib/linux-x86_64-cpython-311/pandas/tseries

creating build/lib/linux-x86_64-cpython-311/pandas/_config

copying pandas/_config/config.py -> build/lib/linux-x86_64-cpython-311/pandas/_config

copying pandas/_config/dates.py -> build/lib/linux-x86_64-cpython-311/pandas/_config

copying pandas/_config/display.py -> build/lib/linux-x86_64-cpython-311/pandas/_config

copying pandas/_config/localization.py -> build/lib/linux-x86_64-cpython-311/pandas/_config

copying pandas/_config/__init__.py -> build/lib/linux-x86_64-cpython-311/pandas/_config

creating build/lib/linux-x86_64-cpython-311/pandas/_libs

copying pandas/_libs/__init__.py -> build/lib/linux-x86_64-cpython-311/pandas/_libs

creating build/lib/linux-x86_64-cpython-311/pandas/util

copying pandas/util/_decorators.py -> build/lib/linux-x86_64-cpython-311/pandas/util

copying pandas/util/_test_decorators.py -> build/lib/linux-x86_64-cpython-311/pandas/util

copying pandas/util/_depr_module.py -> build/lib/linux-x86_64-cpython-311/pandas/util


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copying pandas/util/_exceptions.py -> build/lib.linux-x86_64-cpython-311/pandas/util
copying pandas/util/testing.py -> build/lib.linux-x86_64-cpython-311/pandas/util
copying pandas/util/_print_versions.py -> build/lib.linux-x86_64-cpython-311/pandas/util
copying pandas/util/_tester.py -> build/lib.linux-x86_64-cpython-311/pandas/util
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copying pandas/util/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/util
creating build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/nanops.py -> build/lib.linux-x86_64-cpython-311/pandas/core
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copying pandas/core/generic.py -> build/lib.linux-x86_64-cpython-311/pandas/core
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copying pandas/core/sorting.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/strings.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/shared_docs.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/indexers.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/algorithms.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/index.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/missing.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/config_init.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/resample.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/indexing.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/construction.py -> build/lib.linux-x86_64-cpython-311/pandas/core
copying pandas/core/frame.py -> build/lib.linux-x86_64-cpython-311/pandas/core
creating build/lib.linux-x86_64-cpython-311/pandas/arrays
copying pandas/arrays/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/arrays
creating build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/sql.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/gbq.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/stata.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/date_converters.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/html.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/common.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/pytables.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/pickle.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/feather_format.py -> build/lib.linux-x86_64-cpython-311/pandas/io
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copying pandas/io/spss.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/api.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/orc.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/parsers.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/parquet.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/io
copying pandas/io/clipboards.py -> build/lib.linux-x86_64-cpython-311/pandas/io
creating build/lib.linux-x86_64-cpython-311/pandas/api
copying pandas/api/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/api
creating build/lib.linux-x86_64-cpython-311/pandas/plotting
copying pandas/plotting/_core.py -> build/lib.linux-x86_64-cpython-311/pandas/plotting
copying pandas/plotting/_misc.py -> build/lib.linux-x86_64-cpython-311/pandas/plotting
copying pandas/plotting/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/plotting
creating build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_optional_dependency.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
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copying pandas/tests/test_multilevel.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_errors.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_sorting.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_algos.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_aggregation.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_strings.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_expressions.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_take.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_nanops.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_join.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_downstream.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
copying pandas/tests/test_common.py -> build/lib.linux-x86_64-cpython-311/pandas/tests
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creating build/lib.linux-x86_64-cpython-311/pandas/errors
copying pandas/errors/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/errors
creating build/lib.linux-x86_64-cpython-311/pandas/compat/numpy
copying pandas/compat/numpy/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/compat/numpy
copying pandas/compat/numpy/function.py -> build/lib.linux-x86_64-cpython-311/pandas/compat/numpy
creating build/lib.linux-x86_64-cpython-311/pandas/_libs/tslibs
copying pandas/_libs/tslibs/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/_libs/tslibs
creating build/lib.linux-x86_64-cpython-311/pandas/_libs/window
copying pandas/_libs/window/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/_libs/window
creating build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/numeric.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/multi.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
```

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copying pandas/core/indexes/datetimelike.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/base.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/interval.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/accessors.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/api.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/frozen.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/extension.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/category.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/range.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/timedeltas.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/datetimes.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
copying pandas/core/indexes/period.py -> build/lib.linux-x86_64-cpython-311/pandas/core/indexes
creating build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
copying pandas/core/dtypes/base.py -> build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
copying pandas/core/dtypes/concat.py -> build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
copying pandas/core/dtypes/common.py -> build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
copying pandas/core/dtypes/cast.py -> build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
copying pandas/core/dtypes/generic.py -> build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
copying pandas/core/dtypes/api.py -> build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
copying pandas/core/dtypes/inference.py -> build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
copying pandas/core/dtypes/missing.py -> build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
copying pandas/core/dtypes/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
copying pandas/core/dtypes/dtypes.py -> build/lib.linux-x86_64-cpython-311/pandas/core/dtypes
creating build/lib.linux-x86_64-cpython-311/pandas/core/internals
copying pandas/core/internals/blocks.py -> build/lib.linux-x86_64-cpython-311/pandas/core/internals
copying pandas/core/internals/ops.py -> build/lib.linux-x86_64-cpython-311/pandas/core/internals
copying pandas/core/internals/concat.py -> build/lib.linux-x86_64-cpython-311/pandas/core/internals
copying pandas/core/internals/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/internals
copying pandas/core/internals/managers.py -> build/lib.linux-x86_64-cpython-311/pandas/core/internals
copying pandas/core/internals/construction.py -> build/lib.linux-x86_64-cpython-311/pandas/core/inter
nals
creating build/lib.linux-x86_64-cpython-311/pandas/core/util
copying pandas/core/util/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/util
copying pandas/core/util/numba_.py -> build/lib.linux-x86_64-cpython-311/pandas/core/util
copying pandas/core/util/hashing.py -> build/lib.linux-x86_64-cpython-311/pandas/core/util
creating build/lib.linux-x86_64-cpython-311/pandas/core/reshape
copying pandas/core/reshape/pivot.py -> build/lib.linux-x86_64-cpython-311/pandas/core/reshape
copying pandas/core/reshape/concat.py -> build/lib.linux-x86_64-cpython-311/pandas/core/reshape
copying pandas/core/reshape/reshape.py -> build/lib.linux-x86_64-cpython-311/pandas/core/reshape
copying pandas/core/reshape/util.py -> build/lib.linux-x86_64-cpython-311/pandas/core/reshape
copying pandas/core/reshape/api.py -> build/lib.linux-x86_64-cpython-311/pandas/core/reshape

```

```

copying pandas/core/reshape/tile.py -> build/lib.linux-x86_64-cpython-311/pandas/core/reshape
copying pandas/core/reshape/melt.py -> build/lib.linux-x86_64-cpython-311/pandas/core/reshape
copying pandas/core/reshape/merge.py -> build/lib.linux-x86_64-cpython-311/pandas/core/reshape
copying pandas/core/reshape/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/reshape
creating build/lib.linux-x86_64-cpython-311/pandas/core/array_algos
copying pandas/core/array_algos/transforms.py -> build/lib.linux-x86_64-cpython-311/pandas/core/array
_algos
copying pandas/core/array_algos/masked_reductions.py -> build/lib.linux-x86_64-cpython-311/pandas/core/array_algos
copying pandas/core/array_algos/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/array_algos
creating build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/masked.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/datetimelike.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/categorical.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/base.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/interval.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/_mixins.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/boolean.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/_arrow_utils.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/integer.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/timedeltas.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/_ranges.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/datetime.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/string_.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/period.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
copying pandas/core/arrays/numpy_.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays
creating build/lib.linux-x86_64-cpython-311/pandas/core/computation
copying pandas/core/computation/expr.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computation
copying pandas/core/computation/parsing.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computation
copying pandas/core/computation/ops.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computation
copying pandas/core/computation/check.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computation
copying pandas/core/computation/common.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computation
copying pandas/core/computation/pytables.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computation
copying pandas/core/computation/api.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computation
copying pandas/core/computation/expressions.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computation

```

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copying pandas/core/computation/eval.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computation
copying pandas/core/computation/align.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computatio
n
copying pandas/core/computation/scope.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computatio
n
copying pandas/core/computation/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computa
tion
copying pandas/core/computation/engines.py -> build/lib.linux-x86_64-cpython-311/pandas/core/computat
ion
creating build/lib.linux-x86_64-cpython-311/pandas/core/window
copying pandas/core/window/rolling.py -> build/lib.linux-x86_64-cpython-311/pandas/core/window
copying pandas/core/window/common.py -> build/lib.linux-x86_64-cpython-311/pandas/core/window
copying pandas/core/window/expanding.py -> build/lib.linux-x86_64-cpython-311/pandas/core/window
copying pandas/core/window/indexers.py -> build/lib.linux-x86_64-cpython-311/pandas/core/window
copying pandas/core/window/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/window
copying pandas/core/window/ewm.py -> build/lib.linux-x86_64-cpython-311/pandas/core/window
copying pandas/core/window/numba_.py -> build/lib.linux-x86_64-cpython-311/pandas/core/window
creating build/lib.linux-x86_64-cpython-311/pandas/core/tools
copying pandas/core/tools/numeric.py -> build/lib.linux-x86_64-cpython-311/pandas/core/tools
copying pandas/core/tools/times.py -> build/lib.linux-x86_64-cpython-311/pandas/core/tools
copying pandas/core/tools/timedeltas.py -> build/lib.linux-x86_64-cpython-311/pandas/core/tools
copying pandas/core/tools/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/tools
copying pandas/core/tools/datetimes.py -> build/lib.linux-x86_64-cpython-311/pandas/core/tools
creating build/lib.linux-x86_64-cpython-311/pandas/core/ops
copying pandas/core/ops/mask_ops.py -> build/lib.linux-x86_64-cpython-311/pandas/core/ops
copying pandas/core/ops/invalid.py -> build/lib.linux-x86_64-cpython-311/pandas/core/ops
copying pandas/core/ops/array_ops.py -> build/lib.linux-x86_64-cpython-311/pandas/core/ops
copying pandas/core/ops/roperator.py -> build/lib.linux-x86_64-cpython-311/pandas/core/ops
copying pandas/core/ops/common.py -> build/lib.linux-x86_64-cpython-311/pandas/core/ops
copying pandas/core/ops/docstrings.py -> build/lib.linux-x86_64-cpython-311/pandas/core/ops
copying pandas/core/ops/methods.py -> build/lib.linux-x86_64-cpython-311/pandas/core/ops
copying pandas/core/ops/missing.py -> build/lib.linux-x86_64-cpython-311/pandas/core/ops
copying pandas/core/ops/dispatch.py -> build/lib.linux-x86_64-cpython-311/pandas/core/ops
copying pandas/core/ops/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/ops
creating build/lib.linux-x86_64-cpython-311/pandas/core/sparse
copying pandas/core/sparse/api.py -> build/lib.linux-x86_64-cpython-311/pandas/core/sparse
copying pandas/core/sparse/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/sparse
creating build/lib.linux-x86_64-cpython-311/pandas/core/groupby
copying pandas/core/groupby/ops.py -> build/lib.linux-x86_64-cpython-311/pandas/core/groupby
copying pandas/core/groupby/categorical.py -> build/lib.linux-x86_64-cpython-311/pandas/core/groupby
copying pandas/core/groupby/base.py -> build/lib.linux-x86_64-cpython-311/pandas/core/groupby
copying pandas/core/groupby/grouper.py -> build/lib.linux-x86_64-cpython-311/pandas/core/groupby
```

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copying pandas/core/groupby/generic.py -> build/lib.linux-x86_64-cpython-311/pandas/core/groupby
copying pandas/core/groupby/groupby.py -> build/lib.linux-x86_64-cpython-311/pandas/core/groupby
copying pandas/core/groupby/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/groupby
creating build/lib.linux-x86_64-cpython-311/pandas/core/arrays/sparse
copying pandas/core/arrays/sparse/scipy_sparse.py -> build/lib.linux-x86_64-cpython-311/pandas/core/a
rrays/sparse
copying pandas/core/arrays/sparse/accessor.py -> build/lib.linux-x86_64-cpython-311/pandas/core/array
s/sparse
copying pandas/core/arrays/sparse/array.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays/s
parse
copying pandas/core/arrays/sparse/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/core/array
s/sparse
copying pandas/core/arrays/sparse/dtype.py -> build/lib.linux-x86_64-cpython-311/pandas/core/arrays/s
parse
creating build/lib.linux-x86_64-cpython-311/pandas/io/sas
copying pandas/io/sas/sasreader.py -> build/lib.linux-x86_64-cpython-311/pandas/io/sas
copying pandas/io/sas/sas7bdatt.py -> build/lib.linux-x86_64-cpython-311/pandas/io/sas
copying pandas/io/sas/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/io/sas
copying pandas/io/sas/sas_xport.py -> build/lib.linux-x86_64-cpython-311/pandas/io/sas
copying pandas/io/sas/sas_constants.py -> build/lib.linux-x86_64-cpython-311/pandas/io/sas
creating build/lib.linux-x86_64-cpython-311/pandas/io/json
copying pandas/io/json/_table_schema.py -> build/lib.linux-x86_64-cpython-311/pandas/io/json
copying pandas/io/json/_json.py -> build/lib.linux-x86_64-cpython-311/pandas/io/json
copying pandas/io/json/_normalize.py -> build/lib.linux-x86_64-cpython-311/pandas/io/json
copying pandas/io/json/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/io/json
creating build/lib.linux-x86_64-cpython-311/pandas/io/excel
copying pandas/io/excel/_pyxlsb.py -> build/lib.linux-x86_64-cpython-311/pandas/io/excel
copying pandas/io/excel/_openpyxl.py -> build/lib.linux-x86_64-cpython-311/pandas/io/excel
copying pandas/io/excel/_odfreader.py -> build/lib.linux-x86_64-cpython-311/pandas/io/excel
copying pandas/io/excel/_xlrd.py -> build/lib.linux-x86_64-cpython-311/pandas/io/excel
copying pandas/io/excel/_xlsxwriter.py -> build/lib.linux-x86_64-cpython-311/pandas/io/excel
copying pandas/io/excel/_base.py -> build/lib.linux-x86_64-cpython-311/pandas/io/excel
copying pandas/io/excel/_xlwt.py -> build/lib.linux-x86_64-cpython-311/pandas/io/excel
copying pandas/io/excel/_odswriter.py -> build/lib.linux-x86_64-cpython-311/pandas/io/excel
copying pandas/io/excel/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/io/excel
copying pandas/io/excel/_util.py -> build/lib.linux-x86_64-cpython-311/pandas/io/excel
creating build/lib.linux-x86_64-cpython-311/pandas/io/clipboard
copying pandas/io/clipboard/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/io/clipboard
creating build/lib.linux-x86_64-cpython-311/pandas/io/formats
copying pandas/io/formats/info.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
copying pandas/io/formats/excel.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
copying pandas/io/formats/html.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
```

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copying pandas/io/formats/csvs.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
copying pandas/io/formats/printing.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
copying pandas/io/formats/latex.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
copying pandas/io/formats/style.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
copying pandas/io/formats/console.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
copying pandas/io/formats/css.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
copying pandas/io/formats/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
copying pandas/io/formats/format.py -> build/lib.linux-x86_64-cpython-311/pandas/io/formats
creating build/lib.linux-x86_64-cpython-311/pandas/api/extensions
copying pandas/api/extensions/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/api/extensions
creating build/lib.linux-x86_64-cpython-311/pandas/api/types
copying pandas/api/types/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/api/types
creating build/lib.linux-x86_64-cpython-311/pandas/api/indexers
copying pandas/api/indexers/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/api/indexers
creating build/lib.linux-x86_64-cpython-311/pandas/plotting/_matplotlib
copying pandas/plotting/_matplotlib/misc.py -> build/lib.linux-x86_64-cpython-311/pandas/plotting/_ma
tplotlib
copying pandas/plotting/_matplotlib/core.py -> build/lib.linux-x86_64-cpython-311/pandas/plotting/_ma
tplotlib
copying pandas/plotting/_matplotlib/style.py -> build/lib.linux-x86_64-cpython-311/pandas/plotting/_m
atplotlib
copying pandas/plotting/_matplotlib/hist.py -> build/lib.linux-x86_64-cpython-311/pandas/plotting/_ma
tplotlib
copying pandas/plotting/_matplotlib/boxplot.py -> build/lib.linux-x86_64-cpython-311/pandas/plotting/_
matplotlib
copying pandas/plotting/_matplotlib/converter.py -> build/lib.linux-x86_64-cpython-311/pandas/plottin
g/_matplotlib
copying pandas/plotting/_matplotlib/tools.py -> build/lib.linux-x86_64-cpython-311/pandas/plotting/_m
atplotlib
copying pandas/plotting/_matplotlib/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/plottin
g/_matplotlib
copying pandas/plotting/_matplotlib/compat.py -> build/lib.linux-x86_64-cpython-311/pandas/plotting/_
matplotlib
copying pandas/plotting/_matplotlib/timeseries.py -> build/lib.linux-x86_64-cpython-311/pandas/plotti
ng/_matplotlib
creating build/lib.linux-x86_64-cpython-311/pandas/tests/series
copying pandas/tests/series/test_alter_axes.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ser
ies
copying pandas/tests/series/test_timezones.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/seri
es
copying pandas/tests/series/test_period.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/series
copying pandas/tests/series/test_missing.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/series

```

```

ies      copying pandas/tests/series/test_timeseries.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ser
ies      copying pandas/tests/series/test_subclass.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/serie
s        copying pandas/tests/series/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/series
        copying pandas/tests/series/test_block_internals.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/series
        copying pandas/tests/series/test_datetime_values.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/series
        copying pandas/tests/series/test_dtypes.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/series
        copying pandas/tests/series/test_reductions.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ser
ies      copying pandas/tests/series/test_duplicates.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ser
ies      copying pandas/tests/series/test_operators.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/seri
es      copying pandas/tests/series/test_ufunc.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/series
        copying pandas/tests/series/test_analytics.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/seri
es      copying pandas/tests/series/test_cumulative.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ser
ies      copying pandas/tests/series/test_api.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/series
        copying pandas/tests/series/test_io.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/series
        copying pandas/tests/series/test_internals.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/seri
es      copying pandas/tests/series/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/series
        copying pandas/tests/series/test_repr.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/series
        copying pandas/tests/series/test_constructors.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/s
eries    copying pandas/tests/series/test_combine_concat.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/series
        copying pandas/tests/series/test_validate.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/serie
s        copying pandas/tests/series/test_arithmetic.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ser
ies      creating build/lib.linux-x86_64-cpython-311/pandas/tests/scalar
        copying pandas/tests/scalar/test_nat.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/scalar
        copying pandas/tests/scalar/test_na_scalar.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/scal
ar      copying pandas/tests/scalar/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/scalar
        creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexes
        copying pandas/tests/indexes/test_frozen.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/indexe

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s
    copying pandas/tests/indexes/datetimelike.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/index
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    copying pandas/tests/indexes/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/indexes
    copying pandas/tests/indexes/test_numpy_compat.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
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    copying pandas/tests/indexes/common.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/indexes
    copying pandas/tests/indexes/test_engines.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/index
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    copying pandas/tests/indexes/test_index_new.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ind
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    creating build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes
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    creating build/lib.linux-x86_64-cpython-311/pandas/tests/util
    copying pandas/tests/util/test_assert_index_equal.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
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        copying pandas/tests/util/test_deprecate.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/util
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        copying pandas/tests/util/test_assert_frame_equal.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/util
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    copying pandas/tests/base/test_drop_duplicates.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
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rrays
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    copying pandas/tests/arrays/test_numpy.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/arrays
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    creating build/lib.linux-x86_64-cpython-311/pandas/tests/computation
    copying pandas/tests/computation/test_compat.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/co
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    copying pandas/tests/tslibs/test_parse_iso8601.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
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s/tests/io
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copying pandas/tests/indexing/test_indexing_slow.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/indexing
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    copying pandas/tests/scalar/timedelta/test_formats.py -> build/lib.linux-x86_64-cpython-311/pandas/te
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    copying pandas/tests/scalar/timedelta/test_arithmetic.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/scalar/timedelta
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/scalar/period
    copying pandas/tests/scalar/period/test_period.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
scalar/period
    copying pandas/tests/scalar/period/test_asfreq.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
scalar/period
    copying pandas/tests/scalar/period/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/sca
lar/period
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/scalar/timestamp
    copying pandas/tests/scalar/timestamp/test_timezones.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/scalar/timestamp
    copying pandas/tests/scalar/timestamp/test_timestamp.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/scalar/timestamp
    copying pandas/tests/scalar/timestamp/test_comparisons.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/scalar/timestamp
    copying pandas/tests/scalar/timestamp/test_unary_ops.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/scalar/timestamp
    copying pandas/tests/scalar/timestamp/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
scalar/timestamp
    copying pandas/tests/scalar/timestamp/test_constructors.py -> build/lib.linux-x86_64-cpython-311/pand
as/tests/scalar/timestamp
```

```
    copying pandas/tests/scalar/timestamp/test_arithmetic.py -> build/lib.linux-x86_64-cpython-311/pandas/
s/tests/scalar/timestamp
    copying pandas/tests/scalar/timestamp/test_rendering.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/scalar/timestamp
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexes/interval
    copying pandas/tests/indexes/interval/test_interval_range.py -> build/lib.linux-x86_64-cpython-311/pa
ndas/tests/indexes/interval
    copying pandas/tests/indexes/interval/test_interval_tree.py -> build/lib.linux-x86_64-cpython-311/pan
das/tests/indexes/interval
    copying pandas/tests/indexes/interval/test_astype.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/interval
    copying pandas/tests/indexes/interval/test_indexing.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexes/interval
    copying pandas/tests/indexes/interval/test_setops.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/interval
    copying pandas/tests/indexes/interval/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
indexes/interval
    copying pandas/tests/indexes/interval/test_interval.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexes/interval
    copying pandas/tests/indexes/interval/test_constructors.py -> build/lib.linux-x86_64-cpython-311/pand
as/tests/indexes/interval
    copying pandas/tests/indexes/interval/test_base.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/interval
    copying pandas/tests/indexes/interval/test_formats.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/interval
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexes/ranges
    copying pandas/tests/indexes/ranges/test_indexing.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/ranges
    copying pandas/tests/indexes/ranges/test_range.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
indexes/ranges
    copying pandas/tests/indexes/ranges/test_setops.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/ranges
    copying pandas/tests/indexes/ranges/test_join.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
ndexes/ranges
    copying pandas/tests/indexes/ranges/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/in
dexes/ranges
    copying pandas/tests/indexes/ranges/test_constructors.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/ranges
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexes/datetime
    copying pandas/tests/indexes/datetime/test_fillna.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/datetime
    copying pandas/tests/indexes/datetime/test_ops.py -> build/lib.linux-x86_64-cpython-311/pandas/test
```



```
s/indexes/datetime
    copying pandas/tests/indexes/datetime/test_timezones.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/datetime
    copying pandas/tests/indexes/datetime/test_insert.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/datetime
    copying pandas/tests/indexes/datetime/test_delete.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/datetime
    copying pandas/tests/indexes/datetime/test_misc.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/datetime
    copying pandas/tests/indexes/datetime/test_astype.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/datetime
    copying pandas/tests/indexes/datetime/test_datetime.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/indexes/datetime
    copying pandas/tests/indexes/datetime/test_datetimelike.py -> build/lib.linux-x86_64-cpython-311/pan
das/tests/indexes/datetime
    copying pandas/tests/indexes/datetime/test_pickle.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/datetime
    copying pandas/tests/indexes/datetime/test_map.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/datetime
    copying pandas/tests/indexes/datetime/test_partial_slicing.py -> build/lib.linux-x86_64-cpython-311/
pandas/tests/indexes/datetime
    copying pandas/tests/indexes/datetime/test_indexing.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/indexes/datetime
    copying pandas/tests/indexes/datetime/test_to_period.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/datetime
    copying pandas/tests/indexes/datetime/test_date_range.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/datetime
    copying pandas/tests/indexes/datetime/test_snap.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/datetime
    copying pandas/tests/indexes/datetime/test_setops.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/datetime
    copying pandas/tests/indexes/datetime/test_join.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/datetime
    copying pandas/tests/indexes/datetime/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/datetime
    copying pandas/tests/indexes/datetime/test_constructors.py -> build/lib.linux-x86_64-cpython-311/pan
das/tests/indexes/datetime
    copying pandas/tests/indexes/datetime/test_shift.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/datetime
    copying pandas/tests/indexes/datetime/test_formats.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexes/datetime
    copying pandas/tests/indexes/datetime/test_scalar_compat.py -> build/lib.linux-x86_64-cpython-311/pa
```

```
ndas/tests/indexes/datetime
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexes/numeric
    copying pandas/tests/indexes/numeric/test_astype.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/numeric
    copying pandas/tests/indexes/numeric/test_indexing.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/numeric
    copying pandas/tests/indexes/numeric/test_join.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
indexes/numeric
    copying pandas/tests/indexes/numeric/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
ndexes/numeric
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_fillna.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_timedelta.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_ops.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_insert.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_delete.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_astype.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_searchsorted.py -> build/lib.linux-x86_64-cpython-311/pa
ndas/tests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_timedelta_range.py -> build/lib.linux-x86_64-cpython-31
1/pandas/tests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_partial_slicing.py -> build/lib.linux-x86_64-cpython-31
1/pandas/tests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_indexing.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_setops.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_join.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_constructors.py -> build/lib.linux-x86_64-cpython-311/pa
ndas/tests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_shift.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_formats.py -> build/lib.linux-x86_64-cpython-311/pandas/
```

```
tests/indexes/timedeltas
    copying pandas/tests/indexes/timedeltas/test_scalar_compat.py -> build/lib.linux-x86_64-cpython-311/p
andas/tests/indexes/timedeltas
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexes/period
    copying pandas/tests/indexes/period/test_fillna.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/period
    copying pandas/tests/indexes/period/test_factorize.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/period
    copying pandas/tests/indexes/period/test_ops.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/in
dexes/period
    copying pandas/tests/indexes/period/test_period.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/period
    copying pandas/tests/indexes/period/test_to_timestamp.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/period
    copying pandas/tests/indexes/period/test_asfreq.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/period
    copying pandas/tests/indexes/period/test_astype.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/period
    copying pandas/tests/indexes/period/test_searchsorted.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/period
    copying pandas/tests/indexes/period/test_tools.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
indexes/period
    copying pandas/tests/indexes/period/test_period_range.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/period
    copying pandas/tests/indexes/period/test_partial_slicing.py -> build/lib.linux-x86_64-cpython-311/pan
das/tests/indexes/period
    copying pandas/tests/indexes/period/test_indexing.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/period
    copying pandas/tests/indexes/period/test_setops.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/period
    copying pandas/tests/indexes/period/test_join.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
ndexes/period
    copying pandas/tests/indexes/period/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/in
dexes/period
    copying pandas/tests/indexes/period/test_monotonic.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/period
    copying pandas/tests/indexes/period/test_constructors.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/period
    copying pandas/tests/indexes/period/test_shift.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
indexes/period
    copying pandas/tests/indexes/period/test_formats.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/period
```

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    copying pandas/tests/indexes/period/test_scalar_compat.py -> build/lib.linux-x86_64-cpython-311/pandas/
s/tests/indexes/period
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexes/base_class
    copying pandas/tests/indexes/base_class/test_reshape.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/indexes/base_class
    copying pandas/tests/indexes/base_class/test_setops.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexes/base_class
    copying pandas/tests/indexes/base_class/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/base_class
    copying pandas/tests/indexes/base_class/test_constructors.py -> build/lib.linux-x86_64-cpython-311/pa
ndas/tests/indexes/base_class
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexes/categorical
    copying pandas/tests/indexes/categorical/test_fillna.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/indexes/categorical
    copying pandas/tests/indexes/categorical/test_reindex.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/categorical
    copying pandas/tests/indexes/categorical/test_astype.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/indexes/categorical
    copying pandas/tests/indexes/categorical/test_map.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/categorical
    copying pandas/tests/indexes/categorical/test_indexing.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/categorical
    copying pandas/tests/indexes/categorical/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/categorical
    copying pandas/tests/indexes/categorical/test_category.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/categorical
    copying pandas/tests/indexes/categorical/test_constructors.py -> build/lib.linux-x86_64-cpython-311/p
andas/tests/indexes/categorical
    copying pandas/tests/indexes/categorical/test_formats.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexes/categorical
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexes/multi
    copying pandas/tests/indexes/multi/test_isin.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/in
dexes/multi
    copying pandas/tests/indexes/multi/test_drop.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/in
dexes/multi
    copying pandas/tests/indexes/multi/test_names.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
ndexes/multi
    copying pandas/tests/indexes/multi/test_reindex.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/multi
    copying pandas/tests/indexes/multi/test_get_level_values.py -> build/lib.linux-x86_64-cpython-311/pan
das/tests/indexes/multi
    copying pandas/tests/indexes/multi/test_missing.py -> build/lib.linux-x86_64-cpython-311/pandas/test
```

```
s/indexes/multi
    copying pandas/tests/indexes/multi/test_reshape.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/multi
    copying pandas/tests/indexes/multi/test_copy.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/in
dexes/multi
    copying pandas/tests/indexes/multi/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ind
exes/multi
    copying pandas/tests/indexes/multi/test_sorting.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/multi
    copying pandas/tests/indexes/multi/test_compat.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
indexes/multi
    copying pandas/tests/indexes/multi/test_duplicates.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/multi
    copying pandas/tests/indexes/multi/test_get_set.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/multi
    copying pandas/tests/indexes/multi/test_astype.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
indexes/multi
    copying pandas/tests/indexes/multi/test_analytics.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/multi
    copying pandas/tests/indexes/multi/test_equivalence.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexes/multi
    copying pandas/tests/indexes/multi/test_take.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/in
dexes/multi
    copying pandas/tests/indexes/multi/test_indexing.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/multi
    copying pandas/tests/indexes/multi/test_integrity.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/multi
    copying pandas/tests/indexes/multi/test_setops.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
indexes/multi
    copying pandas/tests/indexes/multi/test_join.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/in
dexes/multi
    copying pandas/tests/indexes/multi/test_lexsort.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexes/multi
    copying pandas/tests/indexes/multi/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ind
exes/multi
    copying pandas/tests/indexes/multi/test_partial_indexing.py -> build/lib.linux-x86_64-cpython-311/pan
das/tests/indexes/multi
    copying pandas/tests/indexes/multi/test_monotonic.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexes/multi
    copying pandas/tests/indexes/multi/test_constructors.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/indexes/multi
    copying pandas/tests/indexes/multi/test_formats.py -> build/lib.linux-x86_64-cpython-311/pandas/test
```

```
s/indexes/multi
    copying pandas/tests/indexes/multi/test_conversion.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/indexes/multi
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/tseries/holiday
    copying pandas/tests/tseries/holiday/test_federal.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/tseries/holiday
    copying pandas/tests/tseries/holiday/test_observance.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/tseries/holiday
    copying pandas/tests/tseries/holiday/test_holiday.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/tseries/holiday
    copying pandas/tests/tseries/holiday/test_calendar.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/tseries/holiday
    copying pandas/tests/tseries/holiday/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/t
series/holiday
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/tseries/frequencies
    copying pandas/tests/tseries/frequencies/test_inference.py -> build/lib.linux-x86_64-cpython-311/pand
as/tests/tseries/frequencies
    copying pandas/tests/tseries/frequencies/test_freq_code.py -> build/lib.linux-x86_64-cpython-311/pand
as/tests/tseries/frequencies
    copying pandas/tests/tseries/frequencies/test_frequencies.py -> build/lib.linux-x86_64-cpython-311/pa
ndas/tests/tseries/frequencies
    copying pandas/tests/tseries/frequencies/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/tseries/frequencies
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/tseries/offsets
    copying pandas/tests/tseries/offsets/test_offsets.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/tseries/offsets
    copying pandas/tests/tseries/offsets/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/t
series/offsets
    copying pandas/tests/tseries/offsets/common.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/tse
ries/offsets
    copying pandas/tests/tseries/offsets/test_ticks.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/tseries/offsets
    copying pandas/tests/tseries/offsets/test_yqm_offsets.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/tseries/offsets
    copying pandas/tests/tseries/offsets/test_offsets_properties.py -> build/lib.linux-x86_64-cpython-31
1/pandas/tests/tseries/offsets
    copying pandas/tests/tseries/offsets/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/t
series/offsets
    copying pandas/tests/tseries/offsets/test_fiscal.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/tseries/offsets
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    copying pandas/tests/dtypes/cast/test_upcast.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dt
```

```

types/cast
    copying pandas/tests/dtypes/cast/test_promote.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    copying pandas/tests/dtypes/cast/test_construct_ndarray.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    copying pandas/tests/dtypes/cast/test_construct_object_arr.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    copying pandas/tests/dtypes/cast/test_infer_dtype.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    copying pandas/tests/dtypes/cast/test_downcast.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    copying pandas/tests/dtypes/cast/test_find_common_type.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    copying pandas/tests/dtypes/cast/test_convert_objects.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    copying pandas/tests/dtypes/cast/test_construct_from_scalar.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    copying pandas/tests/dtypes/cast/test_infer_datetimelike.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    copying pandas/tests/dtypes/cast/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/dtypes/cast
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/reshape/merge
    copying pandas/tests/reshape/merge/test_merge_asof.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/reshape/merge
    copying pandas/tests/reshape/merge/test_merge.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/reshape/merge
    copying pandas/tests/reshape/merge/test_merge_index_as_string.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/reshape/merge
    copying pandas/tests/reshape/merge/test_join.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/reshape/merge
    copying pandas/tests/reshape/merge/test_multi.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/reshape/merge
    copying pandas/tests/reshape/merge/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/reshape/merge
    copying pandas/tests/reshape/merge/test_merge_ordered.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/reshape/merge
    copying pandas/tests/reshape/merge/test_pivot_old.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/reshape/merge
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/arrays/boolean
    copying pandas/tests/arrays/boolean/test_function.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/arrays/boolean
    copying pandas/tests/arrays/boolean/test_ops.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/arrays/boolean

```

```
rays/boolean
    copying pandas/tests/arrays/boolean/test_logical.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/arrays/boolean
    copying pandas/tests/arrays/boolean/test_construction.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/arrays/boolean
    copying pandas/tests/arrays/boolean/test_astype.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/arrays/boolean
    copying pandas/tests/arrays/boolean/test_comparison.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/arrays/boolean
    copying pandas/tests/arrays/boolean/test_indexing.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/arrays/boolean
    copying pandas/tests/arrays/boolean/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ar
rays/boolean
    copying pandas/tests/arrays/boolean/test_reduction.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/arrays/boolean
    copying pandas/tests/arrays/boolean/test_repr.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/a
rrays/boolean
    copying pandas/tests/arrays/boolean/test_arithmetic.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/arrays/boolean
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/arrays/interval
    copying pandas/tests/arrays/interval/test_ops.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/a
rrays/interval
    copying pandas/tests/arrays/interval/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/a
rrays/interval
    copying pandas/tests/arrays/interval/test_interval.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/arrays/interval
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/arrays/masked
    copying pandas/tests/arrays/masked/test_arrow_compat.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/arrays/masked
    copying pandas/tests/arrays/masked/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/arr
ays/masked
    copying pandas/tests/arrays/masked/test_arithmetic.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/arrays/masked
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/arrays/integer
    copying pandas/tests/arrays/integer/test_function.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/arrays/integer
    copying pandas/tests/arrays/integer/test_concat.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/arrays/integer
    copying pandas/tests/arrays/integer/test_construction.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/arrays/integer
    copying pandas/tests/arrays/integer/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ar
rays/integer
```



```
    copying pandas/tests/arrays/integer/test_dtypes.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/arrays/integer
    copying pandas/tests/arrays/integer/test_comparison.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/arrays/integer
    copying pandas/tests/arrays/integer/test_indexing.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/arrays/integer
    copying pandas/tests/arrays/integer/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ar
rays/integer
    copying pandas/tests/arrays/integer/test_repr.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/a
rrays/integer
    copying pandas/tests/arrays/integer/test_arithmetic.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/arrays/integer
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/arrays/sparse
    copying pandas/tests/arrays/sparse/test_arithmetics.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/arrays/sparse
    copying pandas/tests/arrays/sparse/test_libsparse.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/arrays/sparse
    copying pandas/tests/arrays/sparse/test_dtype.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/a
rrays/sparse
    copying pandas/tests/arrays/sparse/test_array.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/a
rrays/sparse
    copying pandas/tests/arrays/sparse/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/arr
ays/sparse
    copying pandas/tests/arrays/sparse/test_combine_concat.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/arrays/sparse
    copying pandas/tests/arrays/sparse/test_accessor.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/arrays/sparse
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/arrays/categorical
    copying pandas/tests/arrays/categorical/test_missing.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/arrays/categorical
    copying pandas/tests/arrays/categorical/test_subclass.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/arrays/categorical
    copying pandas/tests/arrays/categorical/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/arrays/categorical
    copying pandas/tests/arrays/categorical/test_warnings.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/arrays/categorical
    copying pandas/tests/arrays/categorical/test_sorting.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/arrays/categorical
    copying pandas/tests/arrays/categorical/test_replace.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/arrays/categorical
    copying pandas/tests/arrays/categorical/common.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
arrays/categorical
```

```
    copying pandas/tests/arrays/categorical/test_dtypes.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/arrays/categorical
    copying pandas/tests/arrays/categorical/test_operators.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/arrays/categorical
    copying pandas/tests/arrays/categorical/test_algos.py -> build/lib.linux-x86_64-cpython-311/pandas/te
sts/arrays/categorical
    copying pandas/tests/arrays/categorical/test_analytics.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/arrays/categorical
    copying pandas/tests/arrays/categorical/test_api.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/arrays/categorical
    copying pandas/tests/arrays/categorical/test_indexing.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/arrays/categorical
    copying pandas/tests/arrays/categorical/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/arrays/categorical
    copying pandas/tests/arrays/categorical/test_repr.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/arrays/categorical
    copying pandas/tests/arrays/categorical/test_constructors.py -> build/lib.linux-x86_64-cpython-311/pa
ndas/tests/arrays/categorical
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/arrays/string_
    copying pandas/tests/arrays/string_/test_string.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/arrays/string_
    copying pandas/tests/arrays/string_/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/ar
rays/string_
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/io/pytables
    copying pandas/tests/io/pytables/test_timezones.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/io/pytables
    copying pandas/tests/io/pytables/test_store.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
pytables
    copying pandas/tests/io/pytables/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/py
tables
    copying pandas/tests/io/pytables/common.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/pyta
bles
    copying pandas/tests/io/pytables/test_compat.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/pytables
    copying pandas/tests/io/pytables/test_complex.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/pytables
    copying pandas/tests/io/pytables/test_pytables_missing.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/io/pytables
    copying pandas/tests/io/pytables/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/py
tables
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/io/sas
    copying pandas/tests/io/sas/test_xport.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/sas
```

```

        copying pandas/tests/io/sas/test_sas.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/sas
        copying pandas/tests/io/sas/test_sas7bdat.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/sa
S
        copying pandas/tests/io/sas/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/sas
        creating build/lib.linux-x86_64-cpython-311/pandas/tests/io/json
        copying pandas/tests/io/json/test_compression.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/json
        copying pandas/tests/io/json/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/json
        copying pandas/tests/io/json/test_json_table_schema.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/io/json
        copying pandas/tests/io/json/test_pandas.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/jso
n
        copying pandas/tests/io/json/test_ujson.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/json
        copying pandas/tests/io/json/test_readlines.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
json
        copying pandas/tests/io/json/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/json
        copying pandas/tests/io/json/test_deprecated_kwargs.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/io/json
        copying pandas/tests/io/json/test_normalize.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
json
        creating build/lib.linux-x86_64-cpython-311/pandas/tests/io/parser
        copying pandas/tests/io/parser/test_encoding.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/parser
        copying pandas/tests/io/parser/test_unsupported.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/io/parser
        copying pandas/tests/io/parser/test_skiprows.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/parser
        copying pandas/tests/io/parser/test_na_values.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/parser
        copying pandas/tests/io/parser/test_compression.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/io/parser
        copying pandas/tests/io/parser/test_converters.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
io/parser
        copying pandas/tests/io/parser/test_mangle_dupes.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/io/parser
        copying pandas/tests/io/parser/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/pars
er
        copying pandas/tests/io/parser/test_dialect.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
parser
        copying pandas/tests/io/parser/test_network.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
parser
        copying pandas/tests/io/parser/test_dtypes.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/p

```

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arser
    copying pandas/tests/io/parser/test_header.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/p
arser
    copying pandas/tests/io/parser/test_multi_thread.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/io/parser
    copying pandas/tests/io/parser/test_quoting.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
parser
    copying pandas/tests/io/parser/test_read_fwf.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/parser
    copying pandas/tests/io/parser/test_usecols.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
parser
    copying pandas/tests/io/parser/test_textreader.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/
io/parser
    copying pandas/tests/io/parser/test_parse_dates.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/io/parser
    copying pandas/tests/io/parser/test_comment.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
parser
    copying pandas/tests/io/parser/test_c_parser_only.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/io/parser
    copying pandas/tests/io/parser/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/pars
er
    copying pandas/tests/io/parser/test_common.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/p
arser
    copying pandas/tests/io/parser/test_python_parser_only.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/io/parser
    copying pandas/tests/io/parser/test_index_col.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/parser
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/io/excel
    copying pandas/tests/io/excel/test_xlrd.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/exce
l
    copying pandas/tests/io/excel/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/excel
    copying pandas/tests/io/excel/test_odswriter.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/excel
    copying pandas/tests/io/excel/test_openpyxl.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
excel
    copying pandas/tests/io/excel/test_xlwt.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/exce
l
    copying pandas/tests/io/excel/test_style.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/exc
el
    copying pandas/tests/io/excel/test_writers.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/e
xcel
    copying pandas/tests/io/excel/test_odf.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/excel

```

```
    copying pandas/tests/io/excel/test_xlsxwriter.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/excel
    copying pandas/tests/io/excel/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/excel
    copying pandas/tests/io/excel/test_readers.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/e
xcel
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/io/formats
    copying pandas/tests/io/formats/test_to_excel.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/formats
    copying pandas/tests/io/formats/test_css.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/for
mats
    copying pandas/tests/io/formats/test_to_markdown.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/io/formats
    copying pandas/tests/io/formats/test_to_latex.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/formats
    copying pandas/tests/io/formats/test_style.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/f
ormats
    copying pandas/tests/io/formats/test_eng_formatting.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/io/formats
    copying pandas/tests/io/formats/test_to_csv.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
formats
    copying pandas/tests/io/formats/test_format.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/
formats
    copying pandas/tests/io/formats/test_info.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/fo
rmats
    copying pandas/tests/io/formats/test_printing.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/formats
    copying pandas/tests/io/formats/test_console.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/formats
    copying pandas/tests/io/formats/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/io/for
mats
    copying pandas/tests/io/formats/test_to_html.py -> build/lib.linux-x86_64-cpython-311/pandas/tests/i
o/formats
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexing/interval
    copying pandas/tests/indexing/interval/test_interval_new.py -> build/lib.linux-x86_64-cpython-311/pan
das/tests/indexing/interval
    copying pandas/tests/indexing/interval/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexing/interval
    copying pandas/tests/indexing/interval/test_interval.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/indexing/interval
    creating build/lib.linux-x86_64-cpython-311/pandas/tests/indexing/multiindex
    copying pandas/tests/indexing/multiindex/test_insert.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/indexing/multiindex
```

```
    copying pandas/tests/indexing/multiindex/test_ix.py -> build/lib.linux-x86_64-cpython-311/pandas/test
s/indexing/multiindex
    copying pandas/tests/indexing/multiindex/conftest.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexing/multiindex
    copying pandas/tests/indexing/multiindex/test_getitem.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexing/multiindex
    copying pandas/tests/indexing/multiindex/test_slice.py -> build/lib.linux-x86_64-cpython-311/pandas/t
ests/indexing/multiindex
    copying pandas/tests/indexing/multiindex/test_datetime.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexing/multiindex
    copying pandas/tests/indexing/multiindex/test_indexing_slow.py -> build/lib.linux-x86_64-cpython-311/pa
ndas/tests/indexing/multiindex
    copying pandas/tests/indexing/multiindex/test_sorted.py -> build/lib.linux-x86_64-cpython-311/pandas/
tests/indexing/multiindex
    copying pandas/tests/indexing/multiindex/test_loc.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
ts/indexing/multiindex
    copying pandas/tests/indexing/multiindex/test_multiindex.py -> build/lib.linux-x86_64-cpython-311/pan
das/tests/indexing/multiindex
    copying pandas/tests/indexing/multiindex/test_setitem.py -> build/lib.linux-x86_64-cpython-311/panda
s/tests/indexing/multiindex
    copying pandas/tests/indexing/multiindex/__init__.py -> build/lib.linux-x86_64-cpython-311/pandas/tes
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    running build_ext
    building 'pandas._libs.algos' extension
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da/include/python3.11 -c pandas/_libs/algos.c -o build/temp.linux-x86_64-cpython-311/pandas/_libs/algos.o
    error: command 'gcc' failed: No such file or directory
[end of output]

```

note: This error originates from a subprocess, and is likely not a problem with pip.

ERROR: Failed building wheel for pandas
 ERROR: Could not build wheels for pandas, which is required to install pyproject.toml-based projects
 Done

```
In [6]: %sql sqlite:///my_data1.db
print("done")
```

done

```
In [7]: import pandas as pd
df = pd.read_csv("SpaceX.csv")
df.to_sql("SPACEXTBL", con, if_exists='replace', index=False, method="multi")
df.head(5)
```

```
Out [7]:
```

	Date	Time (UTC)	Booster_Version	Launch_Site	Payload	PAYLOAD_MASS__KG_	Orbit	Customer	Mission_Outcom
0	2010-06-04	18:45:00	F9 v1.0 B0003	CCAFS LC-40	Dragon Spacecraft Qualification Unit	0	LEO	SpaceX	Succes
1	2010-12-08	15:43:00	F9 v1.0 B0004	CCAFS LC-40	Dragon demo flight C1, two CubeSats, barrel of...	0	LEO (ISS)	NASA (COTS) NRO	Succes
2	2012-05-22	7:44:00	F9 v1.0 B0005	CCAFS LC-40	Dragon demo flight C2	525	LEO (ISS)	NASA (COTS)	Succes
3	2012-10-08	0:35:00	F9 v1.0 B0006	CCAFS LC-40	SpaceX CRS-1	500	LEO (ISS)	NASA (CRS)	Succes
4	2013-03-01	15:10:00	F9 v1.0 B0007	CCAFS LC-40	SpaceX CRS-2	677	LEO (ISS)	NASA (CRS)	Succes

Note: This below code is added to remove blank rows from table

```
In [8]: %sql create table SPACEXTABLE as select * from SPACEXTBL where Date is not null

* sqlite:///my_data1.db
(sqlite3.OperationalError) table SPACEXTABLE already exists
[SQL: create table SPACEXTABLE as select * from SPACEXTBL where Date is not null]
(Background on this error at: https://sqlalche.me/e/20/e3q8)
```

```
In [ ]:
```

Tasks

Now write and execute SQL queries to solve the assignment tasks.

Note: If the column names are in mixed case enclose it in double quotes For Example "Landing_Outcome" .

Task 1

Display the names of the unique launch sites in the space mission

```
In [9]: query = "SELECT DISTINCT(LAUNCH_SITE) FROM SPACEXTBL;"
result_df = pd.read_sql(query, con)
result_df.head(5)
```

```
Out[9]:
```

	Launch_Site
0	CCAFS LC-40
1	VAFB SLC-4E
2	KSC LC-39A
3	CCAFS SLC-40

Task 2

Display 5 records where launch sites begin with the string 'KSC'

```
In [10]: query = "SELECT * FROM SPACEXTBL WHERE LAUNCH_SITE LIKE 'KSC%' LIMIT 5;"
result_df = pd.read_sql(query, con)
```

```
result_df.head(5)
```

Out[10]:

	Date	Time (UTC)	Booster_Version	Launch_Site	Payload	PAYLOAD_MASS__KG_	Orbit	Customer	Mission_Outcome
0	2017-02-19	14:39:00	F9 FT B1031.1	KSC LC-39A	SpaceX CRS-10	2490	LEO (ISS)	NASA (CRS)	Success
1	2017-03-16	6:00:00	F9 FT B1030	KSC LC-39A	EchoStar 23	5600	GTO	EchoStar	Success
2	2017-03-30	22:27:00	F9 FT B1021.2	KSC LC-39A	SES-10	5300	GTO	SES	Success
3	2017-05-01	11:15:00	F9 FT B1032.1	KSC LC-39A	NROL-76	5300	LEO	NRO	Success
4	2017-05-15	23:21:00	F9 FT B1034	KSC LC-39A	Inmarsat-5 F4	6070	GTO	Inmarsat	Success

Task 3

Display the total payload mass carried by boosters launched by NASA (CRS)

```
In [11]: query = "SELECT SUM(PAYLOAD_MASS__KG_) FROM SPACEXTBL WHERE CUSTOMER='NASA (CRS)';"
result_df = pd.read_sql(query, con)
result_df
```

Out[11]:

	SUM(PAYLOAD_MASS__KG_)
0	45596

Task 4

Display average payload mass carried by booster version F9 v1.1

```
In [12]: query = "SELECT AVG(PAYLOAD_MASS__KG_) FROM SPACEXTBL WHERE Booster_Version LIKE 'F9 V1.1%';"  
result_df = pd.read_sql(query, con)  
result_df
```

```
Out[12]:
```

	AVG(PAYLOAD_MASS__KG_)
0	2534.666667

Task 5

List the date where the succesful landing outcome in drone ship was acheived.

Hint: Use min function

```
In [13]: query = "SELECT MIN DATE FROM SPACEXTBL WHERE LANDING_OUTCOME='Success';"  
result_df = pd.read_sql(query, con)  
result_df
```

```
Out[13]:
```

	MIN DATE
0	2018-07-22

Task 6

List the names of the boosters which have success in ground pad and have payload mass greater than 4000 but less than 6000

```
In [14]: query = "SELECT DISTINCT Landing_Outcome FROM SPACEXTBL;"  
result_df = pd.read_sql(query, con)  
result_df
```

Out [14]:

Landing_Outcome

0	Failure (parachute)
1	No attempt
2	Uncontrolled (ocean)
3	Controlled (ocean)
4	Failure (drone ship)
5	Precluded (drone ship)
6	Success (ground pad)
7	Success (drone ship)
8	Success
9	Failure
10	No attempt

Task 7

List the total number of successful and failure mission outcomes

```
In [19]: query = "SELECT MISSION_OUTCOME, COUNT(MISSION_OUTCOME) AS TOTAL_NUMBER FROM SPACEXTBL GROUP BY MISSION_OUTCOME"
result_df = pd.read_sql(query, con)
result_df
```

Out [19]:

	Mission_Outcome	TOTAL_NUMBER
0	Failure (in flight)	1
1	Success	98
2	Success	1
3	Success (payload status unclear)	1

Task 8

List the names of the booster_versions which have carried the maximum payload mass. Use a subquery

```
In [20]: query = "SELECT Booster_Version FROM SPACEXTBL WHERE PAYLOAD_MASS__KG_=(SELECT MAX(PAYLOAD_MASS__KG_) FROM
result_df = pd.read_sql(query, con)
result_df
```

Out [20]:

	Booster_Version
0	F9 B5 B1048.4
1	F9 B5 B1049.4
2	F9 B5 B1051.3
3	F9 B5 B1056.4
4	F9 B5 B1048.5
5	F9 B5 B1051.4
6	F9 B5 B1049.5
7	F9 B5 B1060.2
8	F9 B5 B1058.3
9	F9 B5 B1051.6
10	F9 B5 B1060.3
11	F9 B5 B1049.7

Task 9

List the records which will display the month names, succesful landing_outcomes in ground pad ,booster versions, launch_site for the months in year 2017

Note: SQLite does not support monthnames. So you need to use substr(Date,6,2) for month, substr(Date,9,2) for date, substr(Date,0,5),='2017' for year.

```
In [24]: query = "SELECT substr(Date,6,2) as month, DATE,BOOSTER_VERSION, LAUNCH_SITE, Landing_Outcome FROM SPACEXTI
result_df = pd.read_sql(query, con)
```

result_df

Out [24]:

	month	Date	Booster_Version	Launch_Site	Landing_Outcome
0	01	2015-01-10	F9 v1.1 B1012	CCAFS LC-40	Failure (drone ship)
1	04	2015-04-14	F9 v1.1 B1015	CCAFS LC-40	Failure (drone ship)

Task 10

Rank the count of landing outcomes (such as Failure (drone ship) or Success (ground pad)) between the date 2010-06-04 and 2017-03-20, in descending order

In [28]:

```
query = "SELECT Landing_Outcome, COUNT(*) FROM SPACEXTBL WHERE DATE BETWEEN '2010-06-04' AND '2017-03-20' ("
result_df = pd.read_sql(query, con)
result_df
```

Out [28]:

	Landing_Outcome	COUNT(*)
0	Success (ground pad)	3
1	Failure (drone ship)	5

Reference Links

- [Hands-on Lab : String Patterns, Sorting and Grouping](#)
- [Hands-on Lab: Built-in functions](#)
- [Hands-on Lab : Sub-queries and Nested SELECT Statements](#)
- [Hands-on Tutorial: Accessing Databases with SQL magic](#)
- [Hands-on Lab: Analyzing a real World Data Set](#)

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<!--## Change log | Date | Version | Changed by | Change Description | |-----|-----|-----|-----| | 2021-07-09 | 0.2
|Lakshmi Holla | Changes made in magic sql| | 2021-05-20 | 0.1 |Lakshmi Holla | Created Initial Version | --!>

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