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Create an empty table and add columns
>>> from astropy.table import Table, Column
>>> t = Table()
>>> t.add_column(Column(data=["a", "b", "c"],
...                     name="source"))
>>> t.add_column(Column(data=[1.2, 3.3, 5.3],
...                     name="flux"))
>>> print t
source flux
------ ----
     a  1.2
     b  3.3
     c  5.3

Read a table from a file
>>> t1 = Table.read("catalog.vot")
>>> t1 = Table.read("catalog.tbl", format="ipac")
>>> t1 = Table.read("catalog.cds", format="cds")

Select all rows from t1 where the flux column
is greater than 5
>>> t2 = t1[t1["flux"] > 5.0]

Manipulate columns
>>> t2.remove_column("J_mag")
>>> t2.rename_column("Source", "sources")

Write a table to a file
>>> t2.write("new_catalog.hdf5", path='/table')
>>> t2.write("new_catalog.rdb")
>>> t2.write("new_catalog.tex")
```