

Lab 4 Submission

Data Wrangler Script and Screenshot: CMSC

Section No.	Course No.	Instructor	Waitlist	Open	Seats	Days	Time
CMSC100		Charles Kassir	0	4	45	M	4:00pm - 4:50pm
CMSC106		Ulamu Rong	5	0	45	TuTh	9:30am - 10:45am
CMSC131		Evan GoLub	0	0	31	MF	2:00pm - 2:50pm
CMSC131		Evan GoLub	0	0	31	MF	2:00pm - 2:50pm
CMSC131		Evan GoLub	0	1	31	MF	2:00pm - 2:50pm
CMSC131		Evan GoLub	0	1	31	MF	2:00pm - 2:50pm
CMSC131		Evan GoLub	0	1	31	MF	3:00pm - 3:50pm
CMSC131		Evan GoLub	0	1	31	MF	3:00pm - 3:50pm
CMSC131		Evan GoLub	0	0	31	MF	3:00pm - 3:50pm
CMSC131		Evan GoLub	1	0	31	MF	3:00pm - 3:50pm
CMSC131		Thomas Reinhardt	0	0	31	MF	11:00am - 11:50am
CMSC131		Thomas Reinhardt	0	0	31	MF	11:00am - 11:50am
CMSC131		Thomas Reinhardt	0	0	31	MF	11:00am - 11:50am
CMSC131		Thomas Reinhardt	0	0	31	MF	11:00am - 11:50am
CMSC131		Thomas Reinhardt	0	0	31	MF	12:00pm - 12:50pm
CMSC131		Thomas Reinhardt	0	7	31	MF	12:00pm - 12:50pm
CMSC131		Thomas Reinhardt	0	0	31	MF	12:00pm - 12:50pm
CMSC131		Thomas Reinhardt	0	7	31	MF	12:00pm - 12:50pm
CMSC132		Laurence Herman	2	0	34	MF	10:00am - 10:50am
CMSC132		Laurence Herman	0	0	34	MF	10:00am - 10:50am
CMSC132		Laurence Herman	0	0	34	MF	10:00am - 10:50am
CMSC132		Laurence Herman	0	1	34	MF	1:00pm - 1:50pm
CMSC132		Laurence Herman	0	0	34	MF	1:00pm - 1:50pm

```
from wrangler import dw
import sys
```

```
if(len(sys.argv) < 3):
    sys.exit('Error: Please include an input and output file. Example python script.py input.csv output.csv')
```

```
w = dw.DataWrangler()
```

```
# Split data repeatedly on newline into rows
w.add(dw.Split(column=["data"],
    table=0,
    status="active",
    drop=True,
    result="row",
    update=False,
    insert_position="right",
    row=None,
    on="\n",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=0,
    positions=None,
    quote_character=None))
```

```
# Extract from data on 'CMSC any number '
```

```
w.add(dw.Extract(column=["data"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=False,
    insert_position="right",
    row=None,
    on="CMSC\\d+",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None))
```

Cut from data on 'CMSC any number '

```
w.add(dw.Cut(column=["data"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=None,
    on="CMSC\\d+",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None))
```

Fill extract with values from above

```
w.add(dw.Fill(column=["extract"],
    table=0,
    status="active",
    drop=False,
    direction="down",
    method="copy",
    row=None))
```

Delete rows where data is null

```
w.add(dw.Filter(column=[],
    table=0,
    status="active",
    drop=False,
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
```

```
conditions=[dw.IsNull(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    lcol="data",  
    value=None,  
    op_str="is null")]]))
```

Extract from data on '{begin} any number {end}'

```
w.add(dw.Extract(column=["data"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=False,  
    insert_position="right",  
    row=None,  
    on="^\d+$",  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None))
```

Fill extract1 with values from above

```
w.add(dw.Fill(column=["extract1"],  
    table=0,  
    status="active",  
    drop=False,  
    direction="down",  
    method="copy",  
    row=None))
```

Cut from data on '{begin} any number {end}'

```
w.add(dw.Cut(column=["data"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=None,  
    on="^\d+$",  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None))
```

```
# Wrap rows where data is null
w.add(dw.Wrap(column=[],
    table=0,
    status="active",
    drop=False,
    row=dw.Row(column=[],
        table=0,
        status="active",
        drop=False,
        conditions=[dw.IsNull(column=[],
            table=0,
            status="active",
            drop=False,
            lcol="data",
            value=None,
            op_str="is null")]))))
```

```
# Drop wrap
w.add(dw.Drop(column=["wrap"],
    table=0,
    status="active",
    drop=True))
```

```
# Drop wrap13
w.add(dw.Drop(column=["wrap13"],
    table=0,
    status="active",
    drop=True))
```

```
# Drop wrap14
w.add(dw.Drop(column=["wrap14"],
    table=0,
    status="active",
    drop=True))
```

```
# Drop wrap11
w.add(dw.Drop(column=["wrap11"],
    table=0,
    status="active",
    drop=True))
```

```
# Drop wrap10
w.add(dw.Drop(column=["wrap10"],
    table=0,
    status="active",
    drop=True))
```

```
# Drop wrap8
w.add(dw.Drop(column=["wrap8"],
    table=0,
    status="active",
```

```
drop=True))
```

```
# Drop wrap7
```

```
w.add(dw.Drop(column=["wrap7"],  
             table=0,  
             status="active",  
             drop=True))
```

```
# Drop wrap5
```

```
w.add(dw.Drop(column=["wrap5"],  
             table=0,  
             status="active",  
             drop=True))
```

```
# Drop wrap4
```

```
w.add(dw.Drop(column=["wrap4"],  
             table=0,  
             status="active",  
             drop=True))
```

```
# Set wrap1 name to Section No.
```

```
w.add(dw.SetName(column=["wrap1"],  
               table=0,  
               status="active",  
               drop=True,  
               names=["Section No."],  
               header_row=None))
```

```
# Set wrap2 name to Course No.
```

```
w.add(dw.SetName(column=["wrap2"],  
               table=0,  
               status="active",  
               drop=True,  
               names=["Course No."],  
               header_row=None))
```

```
# Set wrap3 name to Instructor
```

```
w.add(dw.SetName(column=["wrap3"],  
               table=0,  
               status="active",  
               drop=True,  
               names=["Instructor"],  
               header_row=None))
```

```
# Extract from wrap6 on 'Total: any number '
```

```
w.add(dw.Extract(column=["wrap6"],  
               table=0,  
               status="active",  
               drop=False,  
               result="column",  
               update=False,
```

```
insert_position="right",
row=None,
on="Total: \\d+",
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None))
```

```
# Extract from wrap6 on 'Open: any number '
```

```
w.add(dw.Extract(column=["wrap6"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=False,
    insert_position="right",
    row=None,
    on="Open: \\d+",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None))
```

```
# Extract from wrap6 on 'Waitlist: any number '
```

```
w.add(dw.Extract(column=["wrap6"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=False,
    insert_position="right",
    row=None,
    on="Waitlist: \\d+",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None))
```

```
# Drop wrap6
```

```
w.add(dw.Drop(column=["wrap6"],
    table=0,
    status="active",
    drop=True))
```

```
# Extract from extract3 on ' any number '
```

```
w.add(dw.Extract(column=["extract3"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=False,
    insert_position="right",
    row=None,
    on="\d+",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None))
```

Drop extract3

```
w.add(dw.Drop(column=["extract3"],
    table=0,
    status="active",
    drop=True))
```

Set extract4 name to Waitlist

```
w.add(dw.SetName(column=["extract4"],
    table=0,
    status="active",
    drop=True,
    names=["Waitlist"],
    header_row=None))
```

Extract from extract2 on ' any number '

```
w.add(dw.Extract(column=["extract2"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=False,
    insert_position="right",
    row=None,
    on="\d+",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None))
```

Drop extract2

```
w.add(dw.Drop(column=["extract2"],
    table=0,
    status="active",
```

```
drop=True))
```

```
# Set extract5 name to Open
```

```
w.add(dw.SetName(column=["extract5"],  
    table=0,  
    status="active",  
    drop=True,  
    names=["Open"],  
    header_row=None))
```

```
# Extract from extract on ' any number '
```

```
w.add(dw.Extract(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=False,  
    insert_position="right",  
    row=None,  
    on="\d+",  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None))
```

```
# Drop extract
```

```
w.add(dw.Drop(column=["extract"],  
    table=0,  
    status="active",  
    drop=True))
```

```
# Set extract6 name to Seats
```

```
w.add(dw.SetName(column=["extract6"],  
    table=0,  
    status="active",  
    drop=True,  
    names=["Seats"],  
    header_row=None))
```

```
# Extract from wrap12 on ' any uppercase word '
```

```
w.add(dw.Extract(column=["wrap12"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=False,  
    insert_position="right",  
    row=None,  
    on="[A-Z]+",
```



```
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None))
```

```
# Extract from wrap12 on ' any number '
```

```
w.add(dw.Extract(column=["wrap12"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=False,  
    insert_position="right",  
    row=None,  
    on="\d+",  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None))
```

```
# Set extract7 name to Room No.
```

```
w.add(dw.SetName(column=["extract7"],  
    table=0,  
    status="active",  
    drop=True,  
    names=["Room No."],  
    header_row=None))
```

```
# Set extract name to Bldg.
```

```
w.add(dw.SetName(column=["extract"],  
    table=0,  
    status="active",  
    drop=True,  
    names=["Bldg."],  
    header_row=None))
```

```
# Drop wrap12
```

```
w.add(dw.Drop(column=["wrap12"],  
    table=0,  
    status="active",  
    drop=True))
```

```
# Extract from wrap9 after ' any word '
```

```
w.add(dw.Extract(column=["wrap9"],  
    table=0,  
    status="active",  
    drop=False,
```

```
result="column",
update=False,
insert_position="right",
row=None,
on=".*",
before=None,
after="[a-zA-Z]+ ",
ignore_between=None,
which=1,
max=1,
positions=None))
```

```
# Extract from wrap9 on ' any word '
w.add(dw.Extract(column=["wrap9"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=False,
    insert_position="right",
    row=None,
    on="[a-zA-Z]+",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None))
```

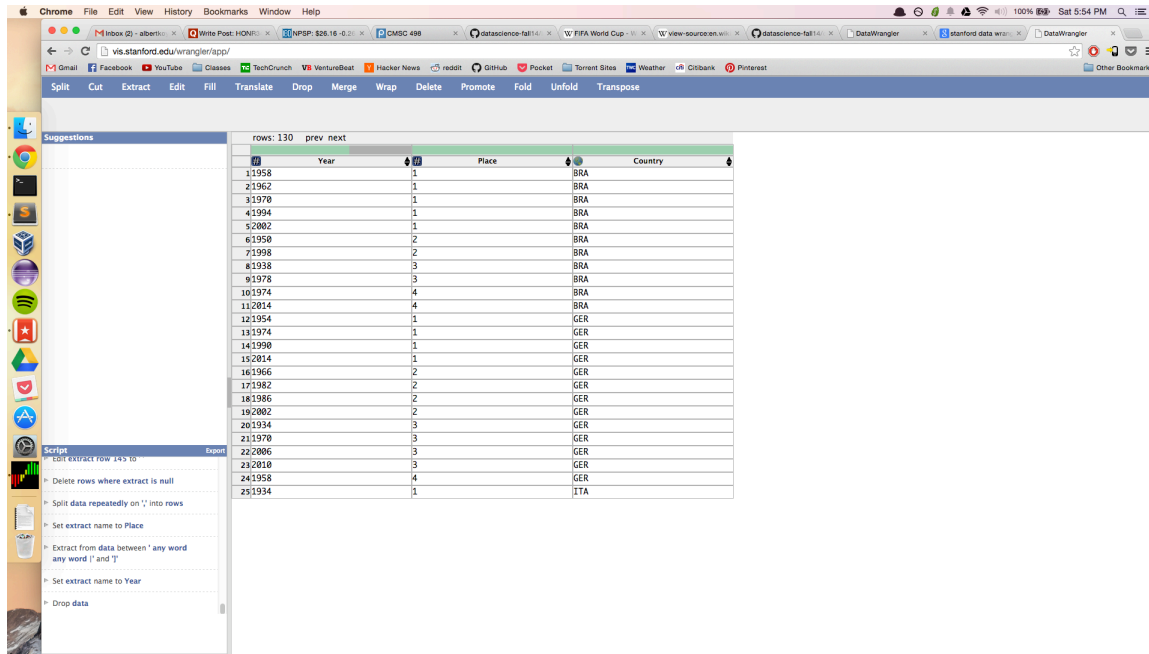
```
# Set extract8 name to Days
w.add(dw.SetName(column=["extract8"],
    table=0,
    status="active",
    drop=True,
    names=["Days"],
    header_row=None))
```

```
# Set extract name to Time
w.add(dw.SetName(column=["extract"],
    table=0,
    status="active",
    drop=True,
    names=["Time"],
    header_row=None))
```

```
# Drop wrap9
w.add(dw.Drop(column=["wrap9"],
    table=0,
    status="active",
    drop=True))
```

```
w.apply_to_file(sys.argv[1]).print_csv(sys.argv[2])
```

Data Wrangler Script and Screenshot: World Cup 1



The screenshot shows the Data Wrangler web application interface. The top navigation bar includes links for Split, Cut, Extract, Edit, Fill, Translate, Drop, Merge, Wrap, Delete, Promote, Fold, Unfold, and Transpose. The main area displays a table with 130 rows and 4 columns: Year, Place, Country, and an unnamed column. The table is sorted by Year in ascending order. The left sidebar contains a 'Suggestions' section with various data manipulation options like 'Delete rows where extract is null', 'Split data repeatedly on \', into rows', 'Set extract name to Place', 'Extract from data between any word and \', and 'Set extract name to Year'. The bottom section shows a list of scripts, including 'Extract row 145 to', 'Delete rows where extract is null', 'Split data repeatedly on \', into rows', 'Set extract name to Place', 'Extract from data between any word and \', and 'Set extract name to Year'.

Year	Place	Country	
11958	1	BRA	
21962	1	BRA	
31970	1	BRA	
41994	1	BRA	
52002	1	BRA	
61950	2	BRA	
71998	2	BRA	
81938	3	BRA	
91978	3	BRA	
101974	4	BRA	
112014	4	BRA	
121954	1	GER	
131974	1	GER	
141990	1	GER	
152014	1	GER	
161966	2	GER	
171982	2	GER	
181986	2	GER	
192002	2	GER	
201934	3	GER	
211970	3	GER	
222006	3	GER	
232010	3	GER	
241958	4	GER	
251934	1	ITA	

```
from wrangler import dw
import sys
```

```
if(len(sys.argv) < 3):
    sys.exit('Error: Please include an input and output file. Example python script.py input.csv output.csv')
```

```
w = dw.DataWrangler()
```

```
# Split data repeatedly on '\-' into rows
w.add(dw.Split(column=["data"],
    table=0,
    status="active",
    drop=True,
    result="row",
    update=False,
    insert_position="right",
    row=None,
    on="\|\\-",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=0,
    positions=None,
```

```
quote_character=None))
```

```
# Delete row 1
```

```
w.add(dw.Filter(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    indices=[0])]))))
```

```
# Extract from data on ' any uppercase word '
```

```
w.add(dw.Extract(column=["data"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=False,  
    insert_position="right",  
    row=None,  
    on="[A-Z]+",  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None))
```

```
# Set extract name to Country
```

```
w.add(dw.SetName(column=["extract"],  
    table=0,  
    status="active",  
    drop=True,  
    names=["Country"],  
    header_row=None))
```

```
# Split data repeatedly on newline into rows
```

```
w.add(dw.Split(column=["data"],  
    table=0,  
    status="active",  
    drop=True,  
    result="row",  
    update=False,  
    insert_position="right",  
    row=None,
```

```
on="\n",
before=None,
after=None,
ignore_between=None,
which=1,
max="0",
positions=None,
quote_character=None))
```

Delete rows where data is null

```
w.add(dw.Filter(column=[],
    table=0,
    status="active",
    drop=False,
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.IsNull(column=[],
    table=0,
    status="active",
    drop=False,
    lcol="data",
    value=None,
    op_str="is null")]))))
```

Extract from data between positions 0, 1

```
w.add(dw.Extract(column=["data"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=False,
    insert_position="right",
    row=None,
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=[0,1]))
```

Edit extract row 5 to '4'

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
```

```
row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[4])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))
```

Edit extract row 3 to ' 2 '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[2])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))
```

Edit extract row 2 to ' 1 '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
```

```

result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[1])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 4 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[3])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="3",
    update_method=None))

```

Edit extract row 1 to ' '

```

w.add(dw.Edit(column=["extract"],

```

```

table=0,
status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[0])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

```

# Edit extract row 6 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[5])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```



```

# Edit extract row 7 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[6])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

```

# Edit extract row 8 to ' 1 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[7])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,

```

```
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 9 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[8]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 10 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[9]])),  
on=None,  
before=None,  
after=None,
```

```
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 11 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[10])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 12 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[11])]),
```

```
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 13 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[12])]),  
    on=None,  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None,  
    to="",  
    update_method=None))
```

```
# Edit extract row 14 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,
```

```
        status="active",
        drop=False,
        indices=[13]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))
```

```
# Edit extract row 16 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[15]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))
```

```
# Edit extract row 15 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
```

```

drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[14]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 17 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[16]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

Edit extract row 18 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",

```

```
row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[17])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

Edit extract row 19 to ' '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[18])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

Edit extract row 20 to ' 1 '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
```

```

result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[19])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 21 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[20])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))

```

Edit extract row 22 to ' 3 '

```

w.add(dw.Edit(column=["extract"],

```



```

table=0,
status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[21])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 23 to '4'

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[22])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

```

# Edit extract row 24 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[23])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

```

# Edit extract row 25 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[24])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,

```

```
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 26 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[25]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 27 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[26]])),  
on=None,  
before=None,  
after=None,
```

```
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 28 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[27])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 29 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[28])]),
```

```
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 30 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[29]))],  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 31 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,
```

```
        status="active",
        drop=False,
        indices=[30]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

```
# Edit extract row 32 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[31]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))
```

```
# Edit extract row 33 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
```

```

drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[32]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 34 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[33]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="3",
    update_method=None))

```

Edit extract row 35 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",

```

```

row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[34])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

Edit extract row 36 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[35])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 37 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,

```



```

result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[36])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 38 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[37])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="1",
    update_method=None))

```

Edit extract row 39 to ' 2 '

```

w.add(dw.Edit(column=["extract"],

```

```

table=0,
status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[38])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 40 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[39])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

```

# Edit extract row 41 to ' 4 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[40])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

```

# Edit extract row 42 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[41])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,

```

```
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 43 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[42]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 45 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[44]])),  
on=None,  
before=None,  
after=None,
```

```
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 44 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[43])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 46 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[45])]),
```

```
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 47 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[46])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 48 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,
```

```
        status="active",
        drop=False,
        indices=[47]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

```
# Edit extract row 49 to ' '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[48]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

```
# Edit extract row 50 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
```

```

drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[49]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 51 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[50]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))

```

Edit extract row 52 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",

```



```

row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[51]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 53 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[52]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

Edit extract row 54 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,

```

```

result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[53])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 55 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[54])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 56 to ' 1 '

```

w.add(dw.Edit(column=["extract"],

```

```

table=0,
status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[55])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 57 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[56])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

```
# Edit extract row 58 to ' 3 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[57])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="3",
    update_method=None))
```

```
# Edit extract row 59 to ' 4 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[58])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
```

```
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 60 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[59]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 61 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[60]])),  
on=None,  
before=None,  
after=None,
```

```
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 62 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[61])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 63 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[62])]),
```

```
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 64 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[63])]),  
    on=None,  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None,  
    to="3",  
    update_method=None))
```

```
# Edit extract row 65 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,
```

```
        status="active",
        drop=False,
        indices=[64]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))
```

```
# Edit extract row 66 to ' '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[65]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

```
# Edit extract row 67 to ' '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
```



```

drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[66]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 68 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[67]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="1",
    update_method=None))

```

Edit extract row 69 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",

```

```

row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[68])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 70 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[69])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 71 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,

```

```

result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[70])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

Edit extract row 72 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[71])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 73 to ' '

```

w.add(dw.Edit(column=["extract"],

```

```

table=0,
status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[72])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 74 to '1'

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[73])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="1",
    update_method=None))

```

```
# Edit extract row 75 to ' 2 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[74])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))
```

```
# Edit extract row 76 to ' 3 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[75])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
```

```
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 77 to '4'
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[76]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 78 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[77]])),  
on=None,  
before=None,  
after=None,
```

```
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 79 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[78])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 80 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[79])]),
```

```
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 81 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[80])]),  
    on=None,  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None,  
    to="2",  
    update_method=None))
```

```
# Edit extract row 82 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,
```



```

        status="active",
        drop=False,
        indices=[81]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 83 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[82]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

Edit extract row 84 to ' '

```

w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",

```

```

drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[83]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 85 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[84]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 86 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",

```

```

row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[85])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 87 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[86])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 88 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,

```

```

result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[87])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 89 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[88])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

Edit extract row 90 to ' '

```

w.add(dw.Edit(column=["extract"],

```

```

table=0,
status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[89])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 91 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[90])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

```
# Edit extract row 92 to ' 1 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[91]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="1",
    update_method=None))
```

```
# Edit extract row 93 to ' 2 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[92]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
```

```
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 94 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[93]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 95 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[94]])),  
on=None,  
before=None,  
after=None,
```

```
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 96 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[95])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 97 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[96])]),
```



```
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 98 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[97])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 99 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,
```

```
        status="active",
        drop=False,
        indices=[98]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))
```

```
# Edit extract row 100 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[99]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))
```

```
# Edit extract row 101 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
```

```

drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[100]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

Edit extract row 102 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[101]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 103 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",

```

```

row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[102]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 104 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[103]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 105 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,

```

```

result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[104])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 106 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[105])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="3",
    update_method=None))

```

Edit extract row 107 to ' 4 '

```

w.add(dw.Edit(column=["extract"],

```

```

table=0,
status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[106])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

Edit extract row 108 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[107])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

```

# Edit extract row 109 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[108])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

```

# Edit extract row 110 to ' 1 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[109])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,

```

```
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 111 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[110]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 112 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[111]])),  
on=None,  
before=None,  
after=None,
```



```
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 113 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[112])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 114 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[113])]),
```

```
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 115 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[114])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 116 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,
```

```
        status="active",
        drop=False,
        indices=[115]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))
```

Edit extract row 117 to ' 2 '

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[116]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))
```

Edit extract row 118 to ' 3 '

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
```

```

drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[117]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 119 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[118]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

Edit extract row 120 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",

```

```
row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[119])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

Edit extract row 121 to ' '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[120])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

Edit extract row 122 to ' 1 '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
```

```

result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[121])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 123 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[122])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))

```

Edit extract row 124 to ' 3 '

```

w.add(dw.Edit(column=["extract"],

```

```

table=0,
status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[123])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 125 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[124])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

```

# Edit extract row 126 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[125])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

```

# Edit extract row 127 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[126])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,

```



```
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 128 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[127]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 129 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[128]])),  
on=None,  
before=None,  
after=None,
```

```
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 130 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[129])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 131 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[130])]),
```

```
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 132 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[131])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 133 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,
```

```
        status="active",
        drop=False,
        indices=[132]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

Edit extract row 134 to ' 1 '

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[133]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))
```

Edit extract row 135 to ' 2 '

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
```

```
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[134]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))
```

Edit extract row 136 to ' 3 '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[135]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="3",
    update_method=None))
```

Edit extract row 137 to ' 4 '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
```

```

row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[136])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

Edit extract row 138 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[137])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 139 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,

```

```

result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[138])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 140 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[139])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="1",
    update_method=None))

```

Edit extract row 141 to ' 2 '

```

w.add(dw.Edit(column=["extract"],

```

```

table=0,
status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[140])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 142 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[141])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```



```

# Edit extract row 143 to ' 4 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[142])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

```

# Edit extract row 144 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[143])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,

```

```
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 145 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[144]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Delete rows where extract is null
```

```
w.add(dw.Filter(column=[],  
table=0,  
status="active",  
drop=False,  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.IsNull(column=[]),  
table=0,  
status="active",  
drop=False,  
lcol="extract",  
value=None,  
op_str="is null"])))
```

```
# Split data repeatedly on ',' into rows
```

```
w.add(dw.Split(column=["data"],  
table=0,
```

```
status="active",
drop=True,
result="row",
update=False,
insert_position="right",
row=None,
on="",
before=None,
after=None,
ignore_between=None,
which=1,
max="0",
positions=None,
quote_character=None))
```

Set extract name to Place

```
w.add(dw.SetName(column=["extract"],
    table=0,
    status="active",
    drop=True,
    names=["Place"],
    header_row=None))
```

Extract from data between ' any word any word |' and '|'

```
w.add(dw.Extract(column=["data"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=False,
    insert_position="right",
    row=None,
    on=".*",
    before="]",
    after="[a-zA-Z]+[a-zA-Z]+\\|",
    ignore_between=None,
    which=1,
    max=1,
    positions=None))
```

Set extract name to Year

```
w.add(dw.SetName(column=["extract"],
    table=0,
    status="active",
    drop=True,
    names=["Year"],
    header_row=None))
```

Drop data

```
w.add(dw.Drop(column=["data"],
    table=0,
```

```
status="active",
drop=True))
```

```
# Delete rows where Year is null
```

```
w.add(dw.Filter(column=[],
    table=0,
    status="active",
    drop=False,
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.IsNull(column=[],
    table=0,
    status="active",
    drop=False,
    lcol="Year",
    value=None,
    op_str="is null")]))))
```

```
w.apply_to_file(sys.argv[1]).print_csv(sys.argv[2])
```

Data Wrangler Script and Screenshot: World Cup 2

The screenshot shows the Data Wrangler web application interface. On the left, a 'Script' panel contains a list of operations: 'Split data repeatedly on - into rows', 'Set extract name to Place', 'Extract from data between any word and T', 'Set extract name to Year', 'Drop data', 'Unfold Year on Place', and 'Drop'. The main area displays a data table with 24 rows and 13 columns. The columns are Country, 1958, 1962, 1970, 1974, 1978, 1982, 1986, 1990, 1994, 1998, 2002, and 2006. The rows list countries and their corresponding scores for each year.

Country	1958	1962	1970	1974	1978	1982	1986	1990	1994	1998	2002	2006
1BRA	1	1	1	1	1	1	1	1	1	1	1	1
2GER	4	3	2	2	2	2	2	2	2	2	2	2
3ITA												
4ARG												
5URU												
6FRA	3											
7ENG												
8ESP												
9NED												
10TCH		2										
11HUN												
12SWE	2											
13POL												
14AUT												
15POR												
16USA												
17CHI		3										
18CRO												
19TUR												
20YUG		4										
21URS												
22BEL												
23BUL												
24KOR												

```
from wrangler import dw
import sys
```

```
if(len(sys.argv) < 3):
```

```
sys.exit('Error: Please include an input and output file. Example python script.py input.csv output.csv')
```

```
w = dw.DataWrangler()
```

```
# Split data repeatedly on '|' into rows
```

```
w.add(dw.Split(column=["data"],
    table=0,
    status="active",
    drop=True,
    result="row",
    update=False,
    insert_position="right",
    row=None,
    on="\\|\\|-",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=0,
    positions=None,
    quote_character=None))
```

```
# Delete row 1
```

```
w.add(dw.Filter(column=[],
    table=0,
    status="active",
    drop=False,
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[0])]))))
```

```
# Extract from data on ' any uppercase word '
```

```
w.add(dw.Extract(column=["data"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=False,
    insert_position="right",
    row=None,
    on="[A-Z]+",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
```

```
max=1,  
positions=None))
```

```
# Set extract name to Country  
w.add(dw.SetName(column=["extract"],  
    table=0,  
    status="active",  
    drop=True,  
    names=["Country"],  
    header_row=None))
```

```
# Split data repeatedly on newline into rows  
w.add(dw.Split(column=["data"],  
    table=0,  
    status="active",  
    drop=True,  
    result="row",  
    update=False,  
    insert_position="right",  
    row=None,  
    on="\n",  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max="0",  
    positions=None,  
    quote_character=None))
```

```
# Delete rows where data is null  
w.add(dw.Filter(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.IsNull(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    lcol="data",  
    value=None,  
    op_str="is null")]))))
```

```
# Extract from data between positions 0, 1  
w.add(dw.Extract(column=["data"],  
    table=0,  
    status="active",  
    drop=False,
```

```
result="column",
update=False,
insert_position="right",
row=None,
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=[0,1]))
```

```
# Edit extract row 5 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[4]])),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))
```

```
# Edit extract row 3 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
```

```

conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[2]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 2 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[],
            table=0,
            status="active",
            drop=False,
            indices=[1]))],
        on=None,
        before=None,
        after=None,
        ignore_between=None,
        which=1,
        max=1,
        positions=None,
        to="1",
        update_method=None))

```

Edit extract row 4 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],

```



```

table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[3]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 1 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[0]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 6 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",

```

```

update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[5])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 7 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[6])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 8 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,

```

```

status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[7])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 9 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[8])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))

```

```
# Edit extract row 10 to ' 3 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[9])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="3",
    update_method=None))
```

```
# Edit extract row 11 to ' 4 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[10])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
```

```
to="4",  
update_method=None))
```

```
# Edit extract row 12 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[11]]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 13 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[12]]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,
```

```
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 14 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[13])]),  
    on=None,  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None,  
    to="1",  
    update_method=None))
```

```
# Edit extract row 16 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[15])]),  
    on=None,
```

```
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 15 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[14])]),  
    on=None,  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None,  
    to="2",  
    update_method=None))
```

```
# Edit extract row 17 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",
```

```
        drop=False,
        indices=[16]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))
```

```
# Edit extract row 18 to ' '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[17]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

```
# Edit extract row 19 to ' '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
```



```
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[18]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

Edit extract row 20 to ' 1 '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[19]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="1",
    update_method=None))
```

Edit extract row 21 to ' 2 '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
```

```

table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[20]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 22 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[21]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="3",
    update_method=None))

```

Edit extract row 23 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",

```

```

update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[22])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

Edit extract row 24 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[23])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 25 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,

```

```

status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[24])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 26 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[25])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="1",
    update_method=None))

```

```
# Edit extract row 27 to ' 2 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[26])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))
```

```
# Edit extract row 28 to ' 3 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[27])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
```

```
to="3",  
update_method=None))
```

```
# Edit extract row 29 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[28]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 30 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[29]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,
```

```
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 31 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[30])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 32 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[31])]),  
on=None,
```

```
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 33 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    indices=[32])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 34 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",
```



```
        drop=False,
        indices=[33]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))
```

```
# Edit extract row 35 to '4'
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[34]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))
```

```
# Edit extract row 36 to ' '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
```

```

conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[35]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 37 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[36]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 38 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],

```

```

table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[37]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 39 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[38]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))

```

Edit extract row 40 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",

```

```

update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[39])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 41 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[40])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

Edit extract row 42 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,

```

```

status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
            table=0,
            status="active",
            drop=False,
            indices=[41])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

```

# Edit extract row 43 to ' '
w.add(dw.Edit(column=["extract"],
            table=0,
            status="active",
            drop=False,
            result="column",
            update=True,
            insert_position="right",
            row=dw.Row(column=[]),
            table=0,
            status="active",
            drop=False,
            conditions=[dw.RowIndex(column=[]),
                        table=0,
                        status="active",
                        drop=False,
                        indices=[42])],
            on=None,
            before=None,
            after=None,
            ignore_between=None,
            which=1,
            max=1,
            positions=None,
            to="",
            update_method=None))

```

```
# Edit extract row 45 to ' 2 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[44])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))
```

```
# Edit extract row 44 to ' 1 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[43])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
```

```
to="1",  
update_method=None))
```

```
# Edit extract row 46 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[45]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 47 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[46]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,
```

```
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 48 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[47])]),  
    on=None,  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None,  
    to="",  
    update_method=None))
```

```
# Edit extract row 49 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[48])]),  
    on=None,
```



```
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 50 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    indices=[49])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 51 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",
```

```
        drop=False,
        indices=[50]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))
```

```
# Edit extract row 52 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[51]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))
```

```
# Edit extract row 53 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
```

```
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[52]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))
```

```
# Edit extract row 54 to ' '
```

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[],
            table=0,
            status="active",
            drop=False,
            indices=[53]))],
        on=None,
        before=None,
        after=None,
        ignore_between=None,
        which=1,
        max=1,
        positions=None,
        to="",
        update_method=None))
```

```
# Edit extract row 55 to ' '
```

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
```

```

table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[54]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 56 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[55]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="1",
    update_method=None))

```

Edit extract row 57 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",

```

```

update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[56])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 58 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[57])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 59 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,

```

```

status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[58])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

```

# Edit extract row 60 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[59])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

```
# Edit extract row 61 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[60])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))
```

```
# Edit extract row 62 to ' 1 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[61])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
```

```
to="1",  
update_method=None))
```

```
# Edit extract row 63 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[62]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 64 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[63]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,
```



```
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 65 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[64])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 66 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[65])]),  
on=None,
```

```
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 67 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[66])]),  
    on=None,  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None,  
    to="",  
    update_method=None))
```

```
# Edit extract row 68 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",
```

```
        drop=False,
        indices=[67]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))
```

```
# Edit extract row 69 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[68]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))
```

```
# Edit extract row 70 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
```

```

conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[69]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 71 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[],
            table=0,
            status="active",
            drop=False,
            indices=[70]))],
        on=None,
        before=None,
        after=None,
        ignore_between=None,
        which=1,
        max=1,
        positions=None,
        to="4",
        update_method=None))

```

Edit extract row 72 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],

```

```

table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[71]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 73 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[72]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 74 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",

```

```

update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[73])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 75 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[74])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))

```

Edit extract row 76 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,

```

```

status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[75])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 77 to '4'

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[76])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

```

# Edit extract row 78 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[77])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

```

# Edit extract row 79 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[78])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,

```



```
to="",  
update_method=None))
```

```
# Edit extract row 80 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[79]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 81 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[80]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,
```

```
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 82 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[81])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 83 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
table=0,  
status="active",  
drop=False,  
indices=[82])]),  
on=None,
```

```
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 84 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    indices=[83])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 85 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",
```

```
        drop=False,
        indices=[84]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

```
# Edit extract row 86 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[85]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))
```

```
# Edit extract row 87 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
```

```

conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[86]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 88 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[],
            table=0,
            status="active",
            drop=False,
            indices=[87]))],
        on=None,
        before=None,
        after=None,
        ignore_between=None,
        which=1,
        max=1,
        positions=None,
        to="3",
        update_method=None))

```

Edit extract row 89 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],

```

```

table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[88]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

Edit extract row 90 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[89]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 91 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",

```

```

update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[90])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 92 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[91])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="1",
    update_method=None))

```

Edit extract row 93 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,

```

```

status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[92]]]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 94 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[93]]]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```



```

# Edit extract row 95 to ' 4 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[94])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

```

# Edit extract row 96 to ' '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[95])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,

```

```
to="",  
update_method=None))
```

```
# Edit extract row 97 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[96]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 98 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[97]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,
```

```
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 99 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[98])]),  
    on=None,  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None,  
    to="2",  
    update_method=None))
```

```
# Edit extract row 100 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[99])]),  
    on=None,
```

```
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 101 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    indices=[100])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 102 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",
```

```
        drop=False,
        indices=[101]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

```
# Edit extract row 103 to ' '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[102]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

```
# Edit extract row 104 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
```

```
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[103]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))
```

Edit extract row 105 to ' 2 '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[104]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))
```

Edit extract row 106 to ' 3 '

```
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
```

```

table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[105]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 107 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[106]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

Edit extract row 108 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",

```

```

update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[107])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 109 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[108])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 110 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,

```



```

status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[109])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 111 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[110])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

```

# Edit extract row 112 to ' 3 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[111])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="3",
    update_method=None))

```

```

# Edit extract row 113 to ' 4 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[112])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,

```

```
to="4",  
update_method=None))
```

```
# Edit extract row 114 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[113]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 115 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[114]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,
```

```
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 116 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[115])]),  
    on=None,  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None,  
    to="1",  
    update_method=None))
```

```
# Edit extract row 117 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[116])]),  
    on=None,
```

```
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 118 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    indices=[117])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="3",  
update_method=None))
```

```
# Edit extract row 119 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",
```

```
        drop=False,
        indices=[118]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))
```

```
# Edit extract row 120 to ' '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[119]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))
```

```
# Edit extract row 121 to ' '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
```

```

conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[120]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 122 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[],
            table=0,
            status="active",
            drop=False,
            indices=[121]))],
        on=None,
        before=None,
        after=None,
        ignore_between=None,
        which=1,
        max=1,
        positions=None,
        to="1",
        update_method=None))

```

Edit extract row 123 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],

```

```

table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[122]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="2",
update_method=None))

```

Edit extract row 124 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[123]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="3",
    update_method=None))

```

Edit extract row 125 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",

```



```

update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[124])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))

```

Edit extract row 126 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[125])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="",
    update_method=None))

```

Edit extract row 127 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,

```

```

status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[126])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 128 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[127])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

```
# Edit extract row 129 to ' 2 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[128])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))
```

```
# Edit extract row 130 to ' 3 '
w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[129])]),
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
```

```
to="3",  
update_method=None))
```

```
# Edit extract row 131 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[130]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="4",  
update_method=None))
```

```
# Edit extract row 132 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
table=0,  
status="active",  
drop=False,  
result="column",  
update=True,  
insert_position="right",  
row=dw.Row(column=[]),  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[]),  
table=0,  
status="active",  
drop=False,  
indices=[131]])),  
on=None,  
before=None,  
after=None,  
ignore_between=None,
```

```
which=1,  
max=1,  
positions=None,  
to="",  
update_method=None))
```

```
# Edit extract row 133 to ' '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[132])]),  
    on=None,  
    before=None,  
    after=None,  
    ignore_between=None,  
    which=1,  
    max=1,  
    positions=None,  
    to="",  
    update_method=None))
```

```
# Edit extract row 134 to ' 1 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    conditions=[dw.RowIndex(column=[],  
        table=0,  
        status="active",  
        drop=False,  
        indices=[133])]),  
    on=None,
```

```
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="1",  
update_method=None))
```

```
# Edit extract row 135 to ' 2 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",  
    drop=False,  
    indices=[134])]),  
on=None,  
before=None,  
after=None,  
ignore_between=None,  
which=1,  
max=1,  
positions=None,  
to="2",  
update_method=None))
```

```
# Edit extract row 136 to ' 3 '
```

```
w.add(dw.Edit(column=["extract"],  
    table=0,  
    status="active",  
    drop=False,  
    result="column",  
    update=True,  
    insert_position="right",  
    row=dw.Row(column=[],  
table=0,  
status="active",  
drop=False,  
conditions=[dw.RowIndex(column=[],  
    table=0,  
    status="active",
```

```
        drop=False,
        indices=[135]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))
```

```
# Edit extract row 137 to ' 4 '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[136]])),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="4",
update_method=None))
```

```
# Edit extract row 138 to ' '
```

```
w.add(dw.Edit(column=["extract"],
        table=0,
        status="active",
        drop=False,
        result="column",
        update=True,
        insert_position="right",
        row=dw.Row(column=[]),
        table=0,
        status="active",
        drop=False,
```

```

conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[137]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 139 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],
        table=0,
        status="active",
        drop=False,
        conditions=[dw.RowIndex(column=[],
            table=0,
            status="active",
            drop=False,
            indices=[138]))],
        on=None,
        before=None,
        after=None,
        ignore_between=None,
        which=1,
        max=1,
        positions=None,
        to="",
        update_method=None))

```

Edit extract row 140 to ' 1 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[],

```



```

table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[],
    table=0,
    status="active",
    drop=False,
    indices=[139]))],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="1",
update_method=None))

```

Edit extract row 141 to ' 2 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[],
        table=0,
        status="active",
        drop=False,
        indices=[140]))],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="2",
    update_method=None))

```

Edit extract row 142 to ' 3 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",

```

```

update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[141])],
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="3",
update_method=None))

```

Edit extract row 143 to ' 4 '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[142])],
    on=None,
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max=1,
    positions=None,
    to="4",
    update_method=None))

```

Edit extract row 144 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,

```

```

status="active",
drop=False,
result="column",
update=True,
insert_position="right",
row=dw.Row(column=[]),
table=0,
status="active",
drop=False,
conditions=[dw.RowIndex(column=[]),
    table=0,
    status="active",
    drop=False,
    indices=[143])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Edit extract row 145 to ' '

```

w.add(dw.Edit(column=["extract"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=True,
    insert_position="right",
    row=dw.Row(column=[]),
    table=0,
    status="active",
    drop=False,
    conditions=[dw.RowIndex(column=[]),
        table=0,
        status="active",
        drop=False,
        indices=[144])]),
on=None,
before=None,
after=None,
ignore_between=None,
which=1,
max=1,
positions=None,
to="",
update_method=None))

```

Delete rows where extract is null

```
w.add(dw.Filter(column=[],
    table=0,
    status="active",
    drop=False,
    row=dw.Row(column=[],
    table=0,
    status="active",
    drop=False,
    conditions=[dw.IsNull(column=[],
    table=0,
    status="active",
    drop=False,
    lcol="extract",
    value=None,
    op_str="is null")]))))
```

Split data repeatedly on ',' into rows

```
w.add(dw.Split(column=["data"],
    table=0,
    status="active",
    drop=True,
    result="row",
    update=False,
    insert_position="right",
    row=None,
    on=", ",
    before=None,
    after=None,
    ignore_between=None,
    which=1,
    max="0",
    positions=None,
    quote_character=None))
```

Set extract name to Place

```
w.add(dw.SetName(column=["extract"],
    table=0,
    status="active",
    drop=True,
    names=["Place"],
    header_row=None))
```

Extract from data between ' any word any word |' and '|'

```
w.add(dw.Extract(column=["data"],
    table=0,
    status="active",
    drop=False,
    result="column",
    update=False,
    insert_position="right",
```

```

        row=None,
        on=".*",
        before="]",
        after="[a-zA-Z]+[a-zA-Z]+\\|",
        ignore_between=None,
        which=1,
        max=1,
        positions=None))

# Set extract name to Year
w.add(dw.SetName(column=["extract"],
        table=0,
        status="active",
        drop=True,
        names=["Year"],
        header_row=None))

# Drop data
w.add(dw.Drop(column=["data"],
        table=0,
        status="active",
        drop=True))

# Unfold Year on Place
w.add(dw.Unfold(column=["Year"],
        table=0,
        status="active",
        drop=False,
        measure="Place"))

# Drop
w.add(dw.Drop(column=["_"],
        table=0,
        status="active",
        drop=True))

w.apply_to_file(sys.argv[1]).print_csv(sys.argv[2])

```

UNIX Tools Command: CMSC

```

cat cmsc.txt | grep -v '^$' | sed 's/^Seats (Total: \([0-9]*\), Open: \([0-9]*\), Waitlist: \([0-9]*\)).*/\1,\2,\3/' | sed
's/^\([MWFTh]*\) \(. *m\)\/\1,\2/' | sed 's/\([A-Z]*\) \([0-9]*\)\/\1,\2/' | awk '/^CMSC[0-9]+$/ {print course; course = $0}
/^ [0-9]+$/ {print combined; combined = $0}
!/^ [0-9]+$/ {combined = combined " " $0}
END {print combined}' | grep -v '^$' | awk '/^CMSC[0-9]+$/ {course = $0} !/^CMSC[0-9]+$/ {print
course, " $0}'

```

UNIX Tools Command: World Cup 1

```
cat worldcup.txt | grep -v '^[-\|!|\|d*|\| |\|]' | sed 's/^.*{{fb|\|([A-Z]*\|).*/\1/' | awk '/^[A-Z]+$/ {country = $0; place = 0} !/^([A-Z]+$/ {place = place + 1} /\|[0-9]+\|\\|/ {len = split($0,a,""); for (i = 1; i <= len; i++) { print country","a[i]","place} }' | sed 's/^\\([A-Z]*\\).*\\([0-9]*\\)\\|\\|\\|.*/\\([1-4]\\)$\\|\\1,\\2,\\3/'
```

Python Script: CMSC

```
import sys
import re
```

```
if len(sys.argv) is not 2:
    print "Invalid number of arguments. Usage: 'python part3_cmesc.py cmesc.txt'"
    sys.exit(1)
```

```
file = open(sys.argv[1], 'r')
```

```
current_line = ""
```

```
for line in file:
    # current course
    course_match = re.match(r"^(CMSC\d+)$", line)
    section_match = re.match(r"^(d{4})$", line)
    instructor_match = re.match(r"^(a-zA-Z\s:]+\n$", line)
    seats_match = re.match(r"^Seats.*?(d+),.*?(d+),.*?(d+)", line)
    time_match = re.match(r"^(MWFTuh+)\s+(.*)$", line)
    building_match = re.match(r"^(A-Z+)\s+(d+)$", line)
```

```

if course_match:
    course = course_match.group(1)
# current section
elif section_match:
    current_line = course + "," + section_match.group(1) + ","
elif instructor_match:
    current_line += instructor_match.group(1).strip() + ","
elif seats_match:
    current_line += seats_match.group(1) + "," + seats_match.group(2) + "," + seats_match.group(3) + ","
elif time_match:
    current_line += time_match.group(1) + "," + time_match.group(2) + ","
elif building_match:
    current_line += building_match.group(1) + "," + building_match.group(2)
print current_line

```

```
import sys
import re

if len(sys.argv) is not 2:
    print "Invalid number of arguments. Usage: 'python part3_worldcup1.py worldcup.txt'"

file = open(sys.argv[1], 'r')

current_line = ""

for line in file:
    junk_match = re.match(r"^[-|!|\||\d*\||\||\\|]", line)
    country_match = re.match(r"^\.*\{\fb\|([A-Z]*).*$", line)

    if not junk_match:
        if country_match:
            country = country_match.group(1)
            place = 0
        else:
            place += 1
        for result in line.split(','):
            year_match = re.match(r"^\.*?\|(\d{4})\|$", result)
            if year_match:
                print country + "," + year_match.group(1) + "," + str(place)
```

```
import sys
import re
import pandas as pd

if len(sys.argv) is not 2:
    print "Invalid number of arguments. Usage: 'python part3_worldcup1.py worldcup.txt'"

file = open(sys.argv[1], 'r')

data = []

current_line = ""

for line in file:
    junk_match = re.match(r"^\|-\|!\|\\d*\|\\||\\}", line)
    country_match = re.match(r"^\.*\\{\fb\\|([A-Z]*).*$", line)

    if not junk_match:
        if country_match:
            country = country_match.group(1)
            place = 0
```

```
else:
    place += 1
    for result in line.split(','):
        year_match = re.match(r"^.*?\\[(\\d{4})\\]\\]", result)
        if year_match:
            data.append({"Country": country, "Year": int(year_match.group(1)), "Place": place})

pd.set_option('display.max_columns', None)
pd.set_option('display.max_rows', None)

table = pd.DataFrame(data).pivot('Year', 'Country')
print table
```