Polars cheat sheet



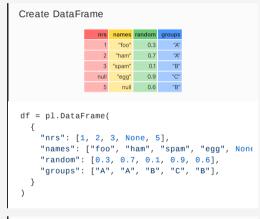


General



import import polars as pl

```
Creating/reading DataFrames
```




```
Read parquet

df = pl.read_parquet("path.parquet")
```

Expressions

Polars expressions can be performed in sequence. This improves readability of code.

```
df \
    .filter(pl.col("nrs") < 4) \
    .groupby("groups") \
    .agg(pl.all().sum())</pre>
```

Subset Observations - rows



```
Filter: Extract rows that meet logical criteria.

df.filter(pl.col("random") > 0.5)

df.filter(
   (pl.col("groups") == "B")
   & (pl.col("random") > 0.5)
)
```

```
Sample

# Randomly select fraction of rows.

df.sample(frac=0.5)

# Randomly select n rows.

df.sample(n=2)
```

```
Select first and last rows

# Select first n rows
df.head(n=2)

# Select last n rows.
df.tail(n=2)
```

Subset Variables - columns



```
Select multiple columns with specific names

df.select(["nrs", "names"])

Select columns whose name matches regex

df.select(pl.col("^n.*$"))
```

Subsets - rows and columns



```
Select rows 2-4

df[2:4, :]

Select columns in positions 1 and 3 (first column is 0)

df[:, [1, 3]]
```

Select rows meeting logical condition, and only the specific columns

```
df[df["random"] > 0.5, ["names", "groups"]]
```

Reshaping Data – Change layout, sorting, renaming



