

PYSPARK TIP

CLEAN EVERY COLUMN NAME IN ONE LINE

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```
1 # Before
2 ["CustID", "trnxAmt", "ACCT-bal", "pmt$Status"]
3
4 # After
5 ["cust_id", "trnx_amt", "acct_bal", "pmt_status"]
```


THE MESS

EVERY SOURCE SYSTEM IS DIFFERENT

Vendor feeds, CSVs, APIs, legacy databases. Column names arrive in every format imaginable.

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```
1 # Source system column names
2 df.columns = [
3     "CustID", # PascalCase
4     "custName", # camelCase
5     "trnx_date", # abbreviated
6     "ACCT-bal", # UPPER + hyphen
7     "pmt$Status", # dollar sign
8     "addr.Line1", # dot notation
9 ]
```



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ONE LINE FIX

DICT COMPREHENSION + .WITHCOLUMNSRENAMED()

Loop over df.columns, apply a regex, pass the dict. One plan node, every column renamed.

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```
1 import re
2
3 # Strip special chars in one dict comprehension
4 df_clean = df.withColumnsRenamed(
5 {
6 c: re.sub(r'[$\-\@#!]', '_', c).lower()
7 for c in df.columns
8 }
9 )
```

"ACCT-bal" becomes "acct_bal", "pmt\$Status" becomes "pmt_status"

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MAKE
IT
GENERIC

A REUSABLE CLEAN_COLUMNS() FUNCTION

Strips special characters, splits camelCase, lowercases everything. Works on any DataFrame.

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```
1 def clean_columns(df):
2     return df.withColumnsRenamed({
3         c: re.sub(r'[$\-\@\#!]', '_',
4                 re.sub(r'([a-z])([A-Z])',
5                       r'\1_\2', c)).lower()
6     for c in df.columns
7     })
8
9     # Use it anywhere
10 df_clean = clean_columns(df)
```



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EXPAND ABBREV -IATIONS

CHAIN IT WITH ABBREVIATION EXPANSION

"trnx_amt" becomes "transaction_amount", "acct_bal" becomes "account_balance"

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```
1 ABBR = {"trnx": "transaction",
2 "cust": "customer",
3 "acct": "account",
4 "pmt": "payment",
5 "amt": "amount",
6 "bal": "balance"}
7
8 def expand(name):
9     return "_".join(ABBR.get(p, p)
10 for p in name.split("_"))
11
12 # Chain: clean then expand
13 df.withColumnsRenamed(
14 {c: expand(clean(c)) for c in df.columns})
```

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