Previous pmtables implemented with stable framework

Contents

1 Setup

```
units = ys_get_unit(ys_help$spec(), parens = TRUE)
```

```
data <- pmtables:::data("all") %>% filter(SEQ > 0)
d <- filter(data, SEQ==1)
```

2 Data inventory tables

2.1 Stacked by endpoint

```
x <- pt_data_inventory(
  data,
  by = vars(Study = "STUDYf"),
  panel = vars("Endpoint" = "SEQf"),
  stacked = TRUE
) %>% as_stable(
  wrapw = TRUE, r_file = "test.R", output_file = "test.tex",
  panel = rowpanel(c("Endpoint:" = "SEQf"), prefix_name = TRUE)
)
```

	Number				Percent	
Study	SUBJ	MISS	OBS	BQL	OBS	BQL
Endpoint: DEMO PK						
12-DEMO-001	30	8	427	15	13.9	0.5
12-DEMO-002	50	10	1152	38	37.4	1.2
11-DEMO-005	40	10	920	30	29.9	1.0
13-DEMO-001	40	7	582	11	18.9	0.4
Group Total	160	35	3081	94	100.0	3.1
Endpoint: ESTRDIOL						
11-DEMO-005	40	0	40	0	50.6	0.0
13-DEMO-001	40	1	39	0	49.4	0.0
Group Total	80	1	79	0	100.0	0.0
Endpoint: BMD						
11-DEMO-005	40	9	111	0	49.1	0.0
13-DEMO-001	40	5	115	0	50.9	0.0
Group Total	80	14	226	0	100.0	0.0

SUBJ: subjects
BQL: below quantitation limit
MISS: missing observations (not BQL)
OBS: observations
Source code: test.R
Source file: test.tex

2.2 Paneled

```
pt_data_inventory(
  d,
  by = vars(Study = "STUDYf"),
  panel = vars(Race = ASIANf)
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

	Number				Group percent		Overall percent	
Study	SUBJ	MISS	OBS	BQL	OBS	BQL	OBS	BQL
Asian								
12-DEMO-001	17	4	241	10	19.5	0.8	7.8	0.3
12-DEMO-002	18	4	414	14	33.4	1.1	13.4	0.5
11-DEMO-005	16	5	366	13	29.5	1.0	11.9	0.4
13-DEMO-001	15	3	218	4	17.6	0.3	7.1	0.1
non-Asian								
12-DEMO-001	13	4	186	5	10.1	0.3	6.0	0.2
12-DEMO-002	32	6	738	24	40.1	1.3	24.0	0.8
11-DEMO-005	24	5	554	17	30.1	0.9	18.0	0.6
13-DEMO-001	25	4	364	7	19.8	0.4	11.8	0.2
All data	160	35	3081	94	—	—	100.0	3.1

SUBJ: subjects
BQL: below quantitation limit
MISS: missing observations (not BQL)
OBS: observations
Source code: test.R
Source file: test.tex

```
out <- pt_data_inventory(
  d,
  by = vars(Study = "STUDYf"),
  panel = vars(Race = ASIANf)
) %>% as_stable(inspect = TRUE) %>% get_stable_data()

a <- group_by(d, ASIANf,STUDYf)
b <- summarize(
  a,
  NID = length(unique(SUBJ)),
  NMISS = sum(is.na(DV) & BQL==0),
  NBQL = sum(BQL !=0),
  NOBS = sum(!is.na(DV)),
  .groups = "drop"
)
dd <- b %>% mutate(TOBS = sum(NOBS), TBQL = sum(NBQL)) %>% ungroup()
ddd <- group_by(dd, ASIANf) %>% mutate(GOBS = sum(NOBS), GBQL = sum(NBQL)) %>% ungroup()
e <- mutate(
  ddd,
```

```
  POBS = 100*NOBS/TOBS,
  PBQL = 100*NBQL/TOBS,
  GPOBS = 100*NOBS/GOBS,
  GPBQL = 100*NBQL/GBQL
)
f <- mutate(e, across(c(POBS,PBQL), .fns = ~ifelse(is.nan(.x), 0, .x)))

g <- summarise_at(f, -c(1,2), sum)
h <- bind_rows(f,g)
i <- mutate(h, across(POBS:PBQL, pmtables:::digit1))


check <- list(
  c("NID", "Number.SUBJ"),
  c("NMISS", "Number.MISS"),
  c("NOBS", "Number.OBS"),
  c("NBQL", "Number.BQL"),
  c("POBS", "Overall percent.OBS"),
  c("PBQL", "Overall percent.BQL")
)

ans <- map_lgl(check, ~ identical(i[[.x[1]]], out$data[[.x[2]]]))
assert_that(all(ans))
```

```
## [1] TRUE
```

2.3 Grouped (by study)

```
pt_data_inventory(
  d,
  by = vars(Study = "STUDYf")
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

	Number				Percent	
Study	SUBJ	MISS	OBS	BQL	OBS	BQL
12-DEMO-001	30	8	427	15	13.9	0.5
12-DEMO-002	50	10	1152	38	37.4	1.2
11-DEMO-005	40	10	920	30	29.9	1.0
13-DEMO-001	40	7	582	11	18.9	0.4
All data	160	35	3081	94	100.0	3.1

SUBJ: subjects
BQL: below quantitation limit
MISS: missing observations (not BQL)
OBS: observations
Source code: test.R
Source file: test.tex

3 Wide categorical table

3.1 Basic

```
pt_cat_wide(
  data = data,
  cols = vars(Formulation = FORMf,Sex = SEXf,"Race group" = ASIANf)) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Formulation			Sex		Race group	
tablet	capsule	troche	male	female	Asian	non-Asian
130 (81.2)	15 (9.4)	15 (9.4)	80 (50.0)	80 (50.0)	66 (41.2)	94 (58.8)

Summary is count (percent)
Source code: test.R
Source file: test.tex

3.2 Paneled (limited utility, IMO)

```
out <- pt_cat_wide(
  data = data,
  cols = vars(Formulation = FORMf,Sex = SEXf,"Race group" = ASIANf),
  panel = c(Study = "STUDYf")) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Formulation			Sex		Race group	
tablet	capsule	troche	male	female	Asian	non-Asian
12-DEMO-001						
25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)
12-DEMO-002						
42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)
11-DEMO-005						
30 (75.0)	3 (7.5)	7 (17.5)	29 (72.5)	11 (27.5)	16 (40.0)	24 (60.0)
13-DEMO-001						
33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)
All data						
130 (81.2)	15 (9.4)	15 (9.4)	80 (50.0)	80 (50.0)	66 (41.2)	94 (58.8)

Summary is count (percent)
Source code: test.R
Source file: test.tex

3.3 Grouped (by male / female)

```
pt_cat_wide(
  data = data,
  by = vars(Sex = SEXf),
  cols = vars(Formulation = FORMf,"Race group" = ASIANf)) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

	Formulation			**Race group**	
Sex	tablet	capsule	troche	Asian	non-Asian
male	62 (77.5)	7 (8.8)	11 (13.8)	28 (35.0)	52 (65.0)
female	68 (85.0)	8 (10.0)	4 (5.0)	38 (47.5)	42 (52.5)
All data	130 (81.2)	15 (9.4)	15 (9.4)	66 (41.2)	94 (58.8)

Summary is count (percent)
Source code: test.R
Source file: test.tex

3.4 Paneled and grouped

```
pt_cat_wide(
  data = data,
  cols = vars(Formulation = FORMf, Sex = SEXf,"Race group" = ASIANf),
  panel = c(Study = "STUDYf"),
  by = c("RF Group" = "RFf")) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

	Formulation			**Sex**		**Race group**	
RF Group	tablet	capsule	troche	male	female	Asian	non-Asian
12-DEMO-001							
normal	25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)
12-DEMO-002							
normal	42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)
11-DEMO-005							
normal	9 (90.0)	0 (0.0)	1 (10.0)	7 (70.0)	3 (30.0)	3 (30.0)	7 (70.0)
mild	7 (70.0)	2 (20.0)	1 (10.0)	7 (70.0)	3 (30.0)	5 (50.0)	5 (50.0)
moderate	6 (60.0)	0 (0.0)	4 (40.0)	8 (80.0)	2 (20.0)	6 (60.0)	4 (40.0)
severe	8 (80.0)	1 (10.0)	1 (10.0)	7 (70.0)	3 (30.0)	2 (20.0)	8 (80.0)
13-DEMO-001							
normal	33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)
All data	130 (81.2)	15 (9.4)	15 (9.4)	80 (50.0)	80 (50.0)	66 (41.2)	94 (58.8)

Summary is count (percent)
Source code: test.R
Source file: test.tex

4 Long categorical table

4.1 Ungrouped

```
pt_cat_long(
  data = data,
  cols = vars(Study = STUDYf,Sex = SEXf,"Race group" = ASIANf, "Child-Pugh" = CPf)) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

	Summary
Study	
12-DEMO-001	30 (18.8)
12-DEMO-002	50 (31.2)
11-DEMO-005	40 (25.0)
13-DEMO-001	40 (25.0)
Sex	
male	80 (50.0)
female	80 (50.0)
Race group	
Asian	66 (41.2)
non-Asian	94 (58.8)
Child-Pugh	
Score=0	130 (81.2)
Score=1	10 (6.2)
Score=2	10 (6.2)
Score=3	10 (6.2)

Summary is count (percent)
Source code: test.R
Source file: test.tex

4.2 Gropued (by formulation)

```
pt_cat_long(
  data = data,
  cols = vars(Study = STUDYf,Sex = SEXf,"Race group" = ASIANf, "Child-Pugh" = CPf),
  by = c(Formulation = "FORMf")) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

	Formulation			
	tablet	capsule	troche	**All Groups**
Study				
12-DEMO-001	25 (19.2)	3 (20.0)	2 (13.3)	30 (18.8)
12-DEMO-002	42 (32.3)	6 (40.0)	2 (13.3)	50 (31.2)
11-DEMO-005	30 (23.1)	3 (20.0)	7 (46.7)	40 (25.0)
13-DEMO-001	33 (25.4)	3 (20.0)	4 (26.7)	40 (25.0)
Sex				
male	62 (47.7)	7 (46.7)	11 (73.3)	80 (50.0)
female	68 (52.3)	8 (53.3)	4 (26.7)	80 (50.0)
Race group				
Asian	53 (40.8)	7 (46.7)	6 (40.0)	66 (41.2)
non-Asian	77 (59.2)	8 (53.3)	9 (60.0)	94 (58.8)
Child-Pugh				
Score=0	106 (81.5)	12 (80.0)	12 (80.0)	130 (81.2)
Score=1	7 (5.4)	1 (6.7)	2 (13.3)	10 (6.2)
Score=2	8 (6.2)	1 (6.7)	1 (6.7)	10 (6.2)
Score=3	9 (6.9)	1 (6.7)	0 (0.0)	10 (6.2)

Summary is count (percent)
Source code: test.R
Source file: test.tex

5 Wide continuous table

5.1 Ungrouped

```
pt_cont_wide(
  data = data,
  cols = "WT,SCR,AGE,ALB,HT",
  units = units
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]

Summary is mean (sd) [count]
Source code: test.R
Source file: test.tex

5.2 Paneled

```
pt_cont_wide(
  data = data,
  cols = "WT,SCR,AGE,ALB,HT",
  panel = c(Study = "STUDYf"),
  units = units
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
12-DEMO-001				
72.2 (14.3) [29]	1.03 (0.155) [30]	32.0 (9.19) [30]	4.28 (0.474) [29]	180 (19.3) [30]
12-DEMO-002				
72.4 (11.5) [49]	0.971 (0.161) [50]	35.0 (8.20) [50]	4.47 (0.468) [50]	182 (15.4) [50]
11-DEMO-005				
68.9 (14.5) [39]	2.52 (1.43) [40]	32.8 (8.48) [40]	4.41 (0.537) [39]	175 (19.2) [40]
13-DEMO-001				
69.4 (11.6) [40]	0.950 (0.165) [40]	34.2 (9.67) [40]	3.58 (1.15) [38]	179 (17.2) [40]
All data				
70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]

Summary is mean (sd) [count]
Source code: test.R
Source file: test.tex

5.3 Grouped (by study)

```
pt_cont_wide(
  data = data,
  cols = "WT,SCR,AGE,ALB,HT",
  by = c(Study = "STUDYf"),
  units = units
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Study	WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
12-DEMO-001	72.2 (14.3) [29]	1.03 (0.155) [30]	32.0 (9.19) [30]	4.28 (0.474) [29]	180 (19.3) [30]
12-DEMO-002	72.4 (11.5) [49]	0.971 (0.161) [50]	35.0 (8.20) [50]	4.47 (0.468) [50]	182 (15.4) [50]
11-DEMO-005	68.9 (14.5) [39]	2.52 (1.43) [40]	32.8 (8.48) [40]	4.41 (0.537) [39]	175 (19.2) [40]
13-DEMO-001	69.4 (11.6) [40]	0.950 (0.165) [40]	34.2 (9.67) [40]	3.58 (1.15) [38]	179 (17.2) [40]
All data	70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]

Summary is mean (sd) [count]
Source code: test.R
Source file: test.tex

5.4 Paneled and grouped

```
pt_cont_wide(
  data = data,
  cols = "WT,SCR,AGE,ALB,HT",
  by = c(Study = "STUDYf"),
  panel = c(Formulation = "FORMf"),
  units = units
) %>% as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)
tablet				
71.0 (14.2) [24]	1.01 (0.157) [25]	32.6 (9.23) [25]	4.22 (0.459) [24]	179 (19.7) [25]
72.2 (11.8) [41]	0.966 (0.166) [42]	34.0 (7.93) [42]	4.49 (0.495) [42]	182 (15.9) [42]
68.8 (15.2) [29]	2.48 (1.47) [30]	33.2 (8.73) [30]	4.37 (0.568) [29]	173 (19.7) [30]
69.4 (11.0) [33]	0.967 (0.163) [33]	33.7 (9.67) [33]	3.53 (1.14) [31]	178 (16.5) [33]
capsule				
72.9 (17.3) [3]	1.12 (0.0700) [3]	32.2 (12.0) [3]	4.49 (0.593) [3]	184 (23.0) [3]
70.9 (10.3) [6]	1.03 (0.146) [6]	37.7 (7.59) [6]	4.38 (0.354) [6]	181 (15.4) [6]
73.9 (11.1) [3]	3.06 (2.19) [3]	31.8 (4.99) [3]	4.65 (0.240) [3]	181 (16.4) [3]
58.4 (4.04) [3]	0.973 (0.195) [3]	36.5 (6.69) [3]	3.09 (1.50) [3]	167 (8.88) [3]
troche				
85.3 (12.4) [2]	1.20 (0.0707) [2]	25.1 (3.28) [2]	4.74 (0.283) [2]	194 (0.163) [2]
79.7 (8.61) [2]	0.910 (0.0283) [2]	48.0 (1.79) [2]	4.49 (0.0354) [2]	182 (10.9) [2]
66.8 (13.9) [7]	2.45 (1.05) [7]	31.4 (9.34) [7]	4.49 (0.509) [7]	177 (19.8) [7]
77.4 (15.9) [4]	0.795 (0.0777) [4]	37.3 (12.9) [4]	4.32 (0.994) [4]	193 (22.4) [4]
All data				
70.7 (12.8) [157]	1.36 (0.986) [160]	33.7 (8.83) [160]	4.20 (0.793) [156]	179 (17.7) [160]

Summary is mean (sd) [count]
Source code: test.R
Source file: test.tex

6 Long continuous table

6.1 Ungrouped

```
pt_cont_long(
  data = data,
  cols = "WT,SCR,AGE",
  units = units) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Variable	n	Mean	Median	SD	Min / Max
WT (kg)	157	70.7	70.0	12.8	43.6 / 97.2
SCR (mg/dL)	160	1.36	1.04	0.986	0.710 / 5.59
AGE (years)	160	33.7	33.4	8.83	18.9 / 49.5

Source code: test.R
Source file: test.tex

```
pt_cont_long(
  data = data,
  cols = "WT,SCR,AGE",
  panel = vars(Study = STUDYf),
  units = units) %>%
  as_stable(wrapw = TRUE, r_file = "test.R", output_file = "test.tex")
```

Variable	n	Mean	Median	SD	Min / Max
12-DEMO-001					
WT (kg)	29	72.2	70.0	14.3	50.9 / 97.2
SCR (mg/dL)	30	1.03	1.04	0.155	0.740 / 1.30
AGE (years)	30	32.0	28.0	9.19	19.9 / 47.8
12-DEMO-002					
WT (kg)	49	72.4	72.1	11.5	51.5 / 96.6
SCR (mg/dL)	50	0.971	0.970	0.161	0.720 / 1.30
AGE (years)	50	35.0	36.0	8.20	20.3 / 49.2
11-DEMO-005					
WT (kg)	39	68.9	65.4	14.5	43.6 / 92.8
SCR (mg/dL)	40	2.52	2.33	1.43	0.720 / 5.59
AGE (years)	40	32.8	33.4	8.48	19.2 / 49.5
13-DEMO-001					
WT (kg)	40	69.4	68.1	11.6	50.7 / 96.6
SCR (mg/dL)	40	0.950	0.975	0.165	0.710 / 1.26
AGE (years)	40	34.2	35.2	9.67	18.9 / 49.5
All data					
WT (kg)	157	70.7	70.0	12.8	43.6 / 97.2
SCR (mg/dL)	160	1.36	1.04	0.986	0.710 / 5.59
AGE (years)	160	33.7	33.4	8.83	18.9 / 49.5

Source code: test.R
Source file: test.tex