# Previous pmtables implemented with stable framework

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	6.1 Ungrouped	
1	Setup	
un	nits = ys_get_unit(ys_help\$spec(), parens = TRUE)	
da	ata <- pmt_first ata_pk <- pmt_pk ata all <- pmt obs	

# 2 Data inventory tables

- Count number of
  - individuals
  - observations
  - BQL observations
  - missing values
- Calculate the percent of observations or BQL in different sub groups

#### 2.1 Stacked by endpoint

• The stacked plot creates multiple independent tables to summarize different endpoints; there is no single overall summary for the table because we are summarizing different endpoints

```
x <- pt_data_inventory(
  data_all,
  by = c(Study = "STUDYf"),
  panel = as.panel("SEQf", prefix = "Endpoint: "),
  stacked = TRUE
) %>% stable(r_file = "test.R", output_file = "test.tex") %>% st_wrap()
```

		Num	Perc	Percent		
Study	SUBJ	MISS	OBS	BQL	OBS	BQL
<b>Endpoint: DEM</b>	IO 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
<b>Endpoint: EST</b>	RDIOL					
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: BMI	)					
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

• Just summarize a single endpoint

```
pt_data_inventory(
  data_pk,
  by = c(Study = "STUDYf"),
  panel = "ASIANf"
) %>%stable(r_file = "test.R", output_file = "test.tex") %>% st_wrap()
```

		Number			Group percent		Overall percent	
Study	SUBJ	MISS	OBS	BQL	OBS	BQL	OBS	BQL
Asian								
12-DEMO-001	17	4	241	10	19.5	8.0	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	8.0
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

## 2.3 Grouped (by study)

```
pt_data_inventory(
  data_pk,
  by = c(Study = "STUDYf")
) %>% stable(r_file = "test.R", output_file = "test.tex") %>% st_wrap()
```

		Num	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

- Summary of categorical data in wide format
- The summary is number (percent within group)
- Wide refers to the fact that the covariates go across the table

#### 3.1 Ungrouped

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

	Formulation			Se	ex	Race	group
n	tablet capsule troche		tablet capsule troche ma		female	Asian	non-Asian
160	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) n: number of records summarized

#### 3.2 Paneled (limited utility, IMO)

• Provided here for completeness

```
out <- pt_cat_wide(
  data = data,
  cols = vars(Formulation = FORMf, Sex = SEXf, "Race group" = ASIANf),
  panel = as.panel("STUDYf", prefix = "Study: ")) %>%
  stable(r_file = "test.R", output_file = "test.tex") %>% st_wrap()
```

	Fo	rmulation	1	Se	ex	Race group			
n	tablet	capsule	troche	male	female	Asian	non-Asian		
Stud	y: 12-DEM(	)-001							
30	25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)		
Stud	Study: 12-DEMO-002								
50	42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)		
Stud	y: 11-DEM(	)-005							
40	30 (75.0)	3 (7.5)	7 (17.5)	29 (72.5)	11 (27.5)	16 (40.0)	24 (60.0)		
Stud	y: 13-DEM(	)-001							
40	33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)		
All d	ata		·						
160	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)

n: number of records summarized

## 3.3 Grouped (by male / female)

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

		Fo	rmulatio	n	Race	group
Sex n		tablet	capsule	troche	Asian	non-Asian
male	80	62 (77.5)	7 (8.8)	11 (13.8)	28 (35.0)	52 (65.0)
female	80	68 (85.0)	8 (10.0)	4 (5.0)	38 (47.5)	42 (52.5)
All data 160		130 (81.2)	15 (9.4)	15 (9.4)	66 (41.2)	94 (58.8)

Summary is count (percent)

n: number of records summarized

## 3.4 Paneled and grouped

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

		Fo	rmulation	ulation		ex	Race	group
RF Group	n	tablet	capsule	troche	male	female	Asian	non-Asian
Study: 12-DEMO-001								
normal	30	25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)
Study: 12-	DEMO	)-002						
normal	50	42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)
Study: 11-	DEMO	<b>)-005</b>						
normal	10	9 (90.0)	0 (0.0)	1 (10.0)	7 (70.0)	3 (30.0)	3 (30.0)	7 (70.0)
mild	10	7 (70.0)	2 (20.0)	1 (10.0)	7 (70.0)	3 (30.0)	5 (50.0)	5 (50.0)
moderate	10	6 (60.0)	0 (0.0)	4 (40.0)	8 (80.0)	2 (20.0)	6 (60.0)	4 (40.0)
severe	10	8 (80.0)	1 (10.0)	1 (10.0)	7 (70.0)	3 (30.0)	2 (20.0)	8 (80.0)
Study: 13-	DEMO	<b>)-001</b>						
normal	40	33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)
All data	160	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)

n: number of records summarized

#### 3.5 No summary

```
pt_cat_wide(
  data = data,
  summarize = "none",
  cols = vars(Formulation = FORMf, Sex = SEXf, "Race group" = ASIANf),
  panel = as.panel("STUDYf", prefix = "Study: "),
  by = c("RF Group" = "RFf")) %>%
  stable(r_file = "test.R", output_file = "test.tex") %>% st_wrap()
```

		Formulation		Sex		Race group		
RF Group	n	tablet	capsule	troche	male	female	Asian	non-Asian
Study: 12-	DEM	O-001						
normal	30	25 (83.3)	3 (10.0)	2 (6.7)	10 (33.3)	20 (66.7)	17 (56.7)	13 (43.3)
Study: 12-	DEM	O-002						
normal	50	42 (84.0)	6 (12.0)	2 (4.0)	18 (36.0)	32 (64.0)	18 (36.0)	32 (64.0)
Study: 11-	DEM	O-005						
normal	10	9 (90.0)	0 (0.0)	1 (10.0)	7 (70.0)	3 (30.0)	3 (30.0)	7 (70.0)
mild	10	7 (70.0)	2 (20.0)	1 (10.0)	7 (70.0)	3 (30.0)	5 (50.0)	5 (50.0)
moderate	10	6 (60.0)	0 (0.0)	4 (40.0)	8 (80.0)	2 (20.0)	6 (60.0)	4 (40.0)
severe	10	8 (80.0)	1 (10.0)	1 (10.0)	7 (70.0)	3 (30.0)	2 (20.0)	8 (80.0)
Study: 13-DEMO-001								
normal	40	33 (82.5)	3 (7.5)	4 (10.0)	23 (57.5)	17 (42.5)	15 (37.5)	25 (62.5)

Summary is count (percent)

n: number of records summarized

# 4 Long categorical table

- Categorical table in long format
- Long indicates that the covariates go down the table ## Ungrouped

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

	Summary $n = 160$
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) n: number of records sum-

marized

## 4.1 Grouped (by formulation)

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

	tablet n = 130	capsule n = 15	troche n = 15	$\begin{array}{c} Summary \\ n = 160 \end{array}$
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)

n: number of records summarized

## 4.2 Summary on bottom and right

```
pt_cat_long(
  data = data,
  summarize = "both",
  cols = vars(Formulation = FORMf, Sex = SEXf, "Race group" = ASIANf),
  span = vars(Study = STUDYf)
) %>% stable(r_file = "test.R", output_file = "test.tex") %>% st_wrap()
```

		Stu	ıdy		
	12-DEMO-001 n = 30	12-DEMO-002 n = 50	11-DEMO-005 n = 40	13-DEMO-001 n = 40	Summary $n = 160$
Formulatio	on				
tablet	25 (83.3)	42 (84.0)	30 (75.0)	33 (82.5)	130 (81.2)
capsule	3 (10.0)	6 (12.0)	3 (7.5)	3 (7.5)	15 (9.4)
troche	2 (6.7)	2 (4.0)	7 (17.5)	4 (10.0)	15 (9.4)
Sex					
male	10 (33.3)	18 (36.0)	29 (72.5)	23 (57.5)	80 (50.0)
female	20 (66.7)	32 (64.0)	11 (27.5)	17 (42.5)	80 (50.0)
Race group	•				
Asian	17 (56.7)	18 (36.0)	16 (40.0)	15 (37.5)	66 (41.2)
non-Asian	13 (43.3)	32 (64.0)	24 (60.0)	25 (62.5)	94 (58.8)

Summary is count (percent)

n: number of records summarized

## 4.3 No summary

```
pt_cat_long(
  data = data,
  summarize = "none",
  cols = vars(Formulation = FORMf, Sex = SEXf, "Race group" = ASIANf),
  span = vars(Study = STUDYf)
) %>% stable(r_file = "test.R", output_file = "test.tex") %>% st_wrap()
```

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

Summary is count (percent)

n: number of records summarized

#### 5 Wide continuous table

- Continuous table in wide format
- Wide means that the covariates go across the table

#### 5.1 Ungrouped

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

WT	SCR	AGE	ALB	HT
(kg)	(mg/dL)	(years)	(g/dL)	(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
) %>% stable(r_file = "test.R", output_file = "test.tex") %>% st_wrap()
```

WT (kg)	SCR (mg/dL)	AGE (years)	ALB (g/dL)	HT (cm)			
Study 12-DEMO	Study 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]			
Study 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]			
Study 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]			
Study 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]

## 5.3 Grouped (by study)

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

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]

## 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
) %>% stable(r_file = "test.R", output_file = "test.tex") %>% st_wrap()
```

	WT	SCR	AGE	ALB	HT		
Study	(kg)	(mg/dL)	(years)	(g/dL)	(cm)		
Formulation tablet							
12-DEMO-001	71.0 (14.2) [24]	1.01 (0.157) [25]	32.6 (9.23) [25]	4.22 (0.459) [24]	179 (19.7) [25]		
12-DEMO-002	72.2 (11.8) [41]	0.966 (0.166) [42]	34.0 (7.93) [42]	4.49 (0.495) [42]	182 (15.9) [42]		
11-DEMO-005	68.8 (15.2) [29]	2.48 (1.47) [30]	33.2 (8.73) [30]	4.37 (0.568) [29]	173 (19.7) [30]		
13-DEMO-001	69.4 (11.0) [33]	0.967 (0.163) [33]	33.7 (9.67) [33]	3.53 (1.14) [31]	178 (16.5) [33]		
Formulation ca	apsule						
12-DEMO-001	72.9 (17.3) [3]	1.12 (0.0700) [3]	32.2 (12.0) [3]	4.49 (0.593) [3]	184 (23.0) [3]		
12-DEMO-002	70.9 (10.3) [6]	1.03 (0.146) [6]	37.7 (7.59) [6]	4.38 (0.354) [6]	181 (15.4) [6]		
11-DEMO-005	73.9 (11.1) [3]	3.06 (2.19) [3]	31.8 (4.99) [3]	4.65 (0.240) [3]	181 (16.4) [3]		
13-DEMO-001	58.4 (4.04) [3]	0.973 (0.195) [3]	36.5 (6.69) [3]	3.09 (1.50) [3]	167 (8.88) [3]		
Formulation troche							
12-DEMO-001	85.3 (12.4) [2]	1.20 (0.0707) [2]	25.1 (3.28) [2]	4.74 (0.283) [2]	194 (0.163) [2]		
12-DEMO-002	79.7 (8.61) [2]	0.910 (0.0283) [2]	48.0 (1.79) [2]	4.49 (0.0354) [2]	182 (10.9) [2]		
11-DEMO-005	66.8 (13.9) [7]	2.45 (1.05) [7]	31.4 (9.34) [7]	4.49 (0.509) [7]	177 (19.8) [7]		
13-DEMO-001	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]

# 6 Long continuous table

- Continuous summary table in long format
- Long indicates that covariates go down the table

#### 6.1 Ungrouped

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

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

n: number of records summarized

SD: standard deviation

Min: minimum; Max: maximum

#### 6.2 Paneled

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

Variable	n	Mean	Median	SD	Min / Max		
Study 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		
Study 12-DEM	10-00	2					
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		
Study 11-DEM	Study 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		
Study 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		

 $n\hbox{: } number of records summarized$ 

SD: standard deviation

Min: minimum; Max: maximum