

*Exercise 1c**The FREQ Procedure*

How AIDS was transmitted		
Transmission_Category	Frequency	Percent
receipt of blood, blood components or tissue	94	3.31
haemophilia or coagulation disorder	46	1.62
heterosexual contact	41	1.44
male homosexual or bisexual contact	2465	86.70
male homosexual or bisexual contact and intravenous drug user	72	2.53
female or heterosexual male intravenous drug user	48	1.69
mother with or at risk of HIV infection	7	0.25
other or unknown	70	2.46

The most prevalent method in the transmission of AIDS in this dataset is male homosexual or bisexual contact. The least prevalent method in the transmission of AIDS in this dataset is mother with or at risk of HIV infection. The most prominent method occurs in 86.70% of the data and the least prominent method occurs in .25% of the data.

*Exercise 1e**The FREQ Procedure*

Table of Origin by Transmission_Category			
Origin	Transmission_Category(How AIDS was transmitted)		
Frequency Percent	male homosexual or bisexual contact	male homosexual or bisexual contact and intravenous drug user	Total
New South Wales	62 60.78	10 9.80	72 70.59
Other	6 5.88	1 0.98	7 6.86
Queensland	8 7.84	0 0.00	8 7.84
Victoria	13 12.75	2 1.96	15 14.71
Total	89 87.25	13 12.75	102 100.00

Looking at the cross-tabulation frequency table between Origin and Transmission Category, we can see that the most common origin is New South Wales and most common Transmission Category is male homosexual or bisexual contact. We can also see that the most frequent observation are those who have an origin of New South Wales and a Transmission Category of male homosexual or bisexual contact.

Our least frequent observation are those who have an origin of Queensland and a Transmission Category of male homosexual or bisexual contact and intravenous drug user.

Exercise 2b**The CONTENTS Procedure**

Data Set Name	HW03.RUSHING_JOSHLJ2	Observations	1890
Member Type	DATA	Variables	8
Engine	V9	Indexes	0
Created	10/07/2019 12:29:44	Observation Length	88
Last Modified	10/07/2019 12:29:44	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Alphabetic List of Variables and Attributes				
#	Variable	Type	Len	Label
4	Avg_Rushing_Yds_Per_Att	Num	8	Average rushing yards per game, rounded to nearest 0.01
5	Avg_Rushing_Yds_Per_Game	Num	8	Average rushing yards per game, rounded to nearest 0.1
6	Longest_Rushing_Att	Num	8	Longest rushing attempt
7	Number_Rushing_Touchdowns	Num	8	Number of rushing touchdowns (i.e., scores, goals)
2	Player	Char	29	
8	Rushing_First_Downs	Num	8	
1	Season	Num	8	
3	Team	Char	4	

Exercise 2c

Obs	Season	Player	Number_Rushing_Touchdowns
1	2014	DeMarco Murray	13
2	2014	Marshawn Lynch	13
3	2013	Jamaal Charles	12
4	2013	Marshawn Lynch	12
5	2013	Eddie Lacy	11
6	2015	Devonta Freeman	11
7	2015	Jeremy Hill	11
8	2015	Adrian Peterson	11
9	2015	DeAngelo Williams	11
10	2013	Knowshon Moreno	10

*Exercise 2e**The CONTENTS Procedure*

Data Set Name	HW03.LOCALNFL_JOSHLJ2	Observations	221
Member Type	DATA	Variables	8
Engine	V9	Indexes	0
Created	10/07/2019 12:29:44	Observation Length	80
Last Modified	10/07/2019 12:29:44	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Alphabetic List of Variables and Attributes				
#	Variable	Type	Len	Label
5	Avg_Rushing_Yds_Per_Game	Num	8	Average rushing yards per game, rounded to nearest 0.1
4	Avg_rushing_Yds_Per_Att	Num	8	Average rushing yards per game, rounded to nearest 0.01
6	Longest_Rushing_Att	Num	8	Longest rushing attempt
7	Number_Rushing_Touchdowns	Num	8	Number of rushing touchdowns (i.e., scores, goals)
2	Player	Char	27	
8	Rushing_First_Downs	Num	8	
1	Season	Num	8	
3	Team	Char	4	

Exercise 2f

Obs	Season	Player	Team	Avg_Rushing_Yds_Per_Game
1	2015	Todd Gurley	Stl	85.1
2	2013	Matt Forte	Chi	83.7
3	2011	Matt Forte	Chi	83.1
4	2013	Eddie Lacy	GB	78.5
5	2010	Steven Jackson	Stl	77.6
6	2011	Steven Jackson	Stl	76.3
7	2012	Matt Forte	Chi	72.9
8	2014	Eddie Lacy	GB	71.2
9	2013	Zac Stacy	Stl	69.5
10	2015	Matt Forte	Chi	69.1

Exercise 3b**The CONTENTS Procedure**

Data Set Name	HW03.LOW_EARNERS4_JOSHLJ2	Observations	1
Member Type	DATA	Variables	13
Engine	V9	Indexes	0
Created	10/07/2019 12:29:44	Observation Length	200
Last Modified	10/07/2019 12:29:44	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Label
11	Birth_Date	Num	8	MMDDYY10.	
4	Company	Char	24		
3	Country	Char	2		
5	Department	Char	24		
9	Gender	Char	1	\$SEX.	
12	Hire_Date	Num	8	MMDDYY10.	
1	ID	Num	8		
8	Job_Title	Char	28		
2	Name	Char	24		
7	Organization_Group	Char	28		
10	Salary	Num	8		
6	Section	Char	28		
13	Termination_Date	Num	8	MMDDYY10.	Termination Date. If missing, employee still employed.

Exercise 3c

Obs	Name	Gender	Department	Job_Title	Salary
1	Tulsidas Ould	Male	Sales	Sales Rep. I	22710