

04/05/2016

Data Quality Report

PROCURA

2010-2015

Procura is a new software package for tracking home care clients. This software has data entry fields for many home care client variables and should provide more details on home care clients and service use than MSSP did.



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Summary

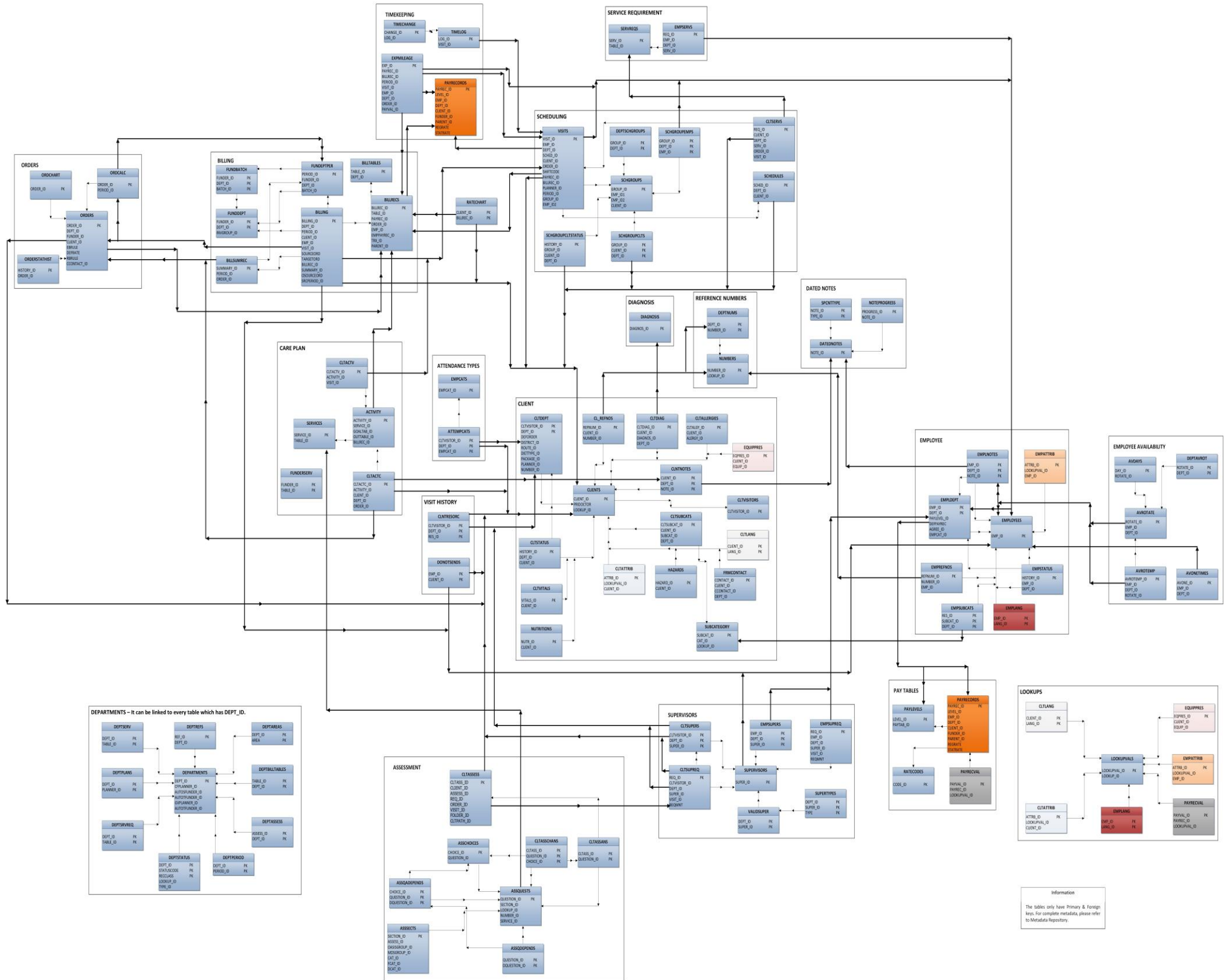
- 1) The **Clients** table has a field called **Attendance Type Flag**. It states whether the client is an attendance type or not. The values are ‘T’ for True and ‘F’ for False. So to setup the Datasets, one must have a filter for Attendance Type Flag = ‘F’.
- 2) Right now, we have data from all of Manitoba except Brandon.
- 3) DQ has been done on very few tables. Though, all the tables are present in Metadata Repository.
- 4) Certain free text fields, containing identifiable information, have been dropped from various tables. Please refer to [PROCURA Data Model](#) for complete list of fields in a particular table.
- 5) We received two set of databases: WRHA & Rest of Manitoba except Brandon. Count of records from each database can be found [here](#). This gives an idea of what data is present for WRHA and Rest of Manitoba.
- 6) Though data model gives an idea of which table can be joined with what other tables but a complete list of this can be found [here](#).
- 7) Linkability is around 85%.

Overview of Databases

Domain	SPDS Cluster Name	Cluster Members	Dataset Label	Number of Records	Number of Fields
HEALTH	WRHA_PROCURA_CLIENTS_2010	WRHAPROCCLIENTS1015	PROCURA - CLIENTS : 2010 Onwards	142,302	60
HEALTH	WRHA_PROCURA_CLTDEPT_2010	WRHAPROCCLTDEPT1015	PROCURA - CLTDEPT : 2010 Onwards	270,765	56
HEALTH	WRHA_PROCURA_CLTSTATUS_2010	WRHAPROCCLTSTATUS1015	PROCURA - CLTSTATUS : 2010 Onwards	655,227	14
HEALTH	WRHA_PROCURA_CROSSWALK_2010	WRHAPROCCROSSWALK1015	PROCURA - CROSSWALK : 2010 Onwards	142,302	8
HEALTH	WRHA_PROCURA_DEPARTMENTS_2010	WRHAPROCDEPARTMENTS1015	PROCURA - DEPARTMENTS : 2010 Onwards	144	94
HEALTH	WRHA_PROCURA_VISITS_2010	WRHAPROCVISITS1015	PROCURA - VISITS : 2010 Onwards	35,519,970	52

Data Model

PROCURA

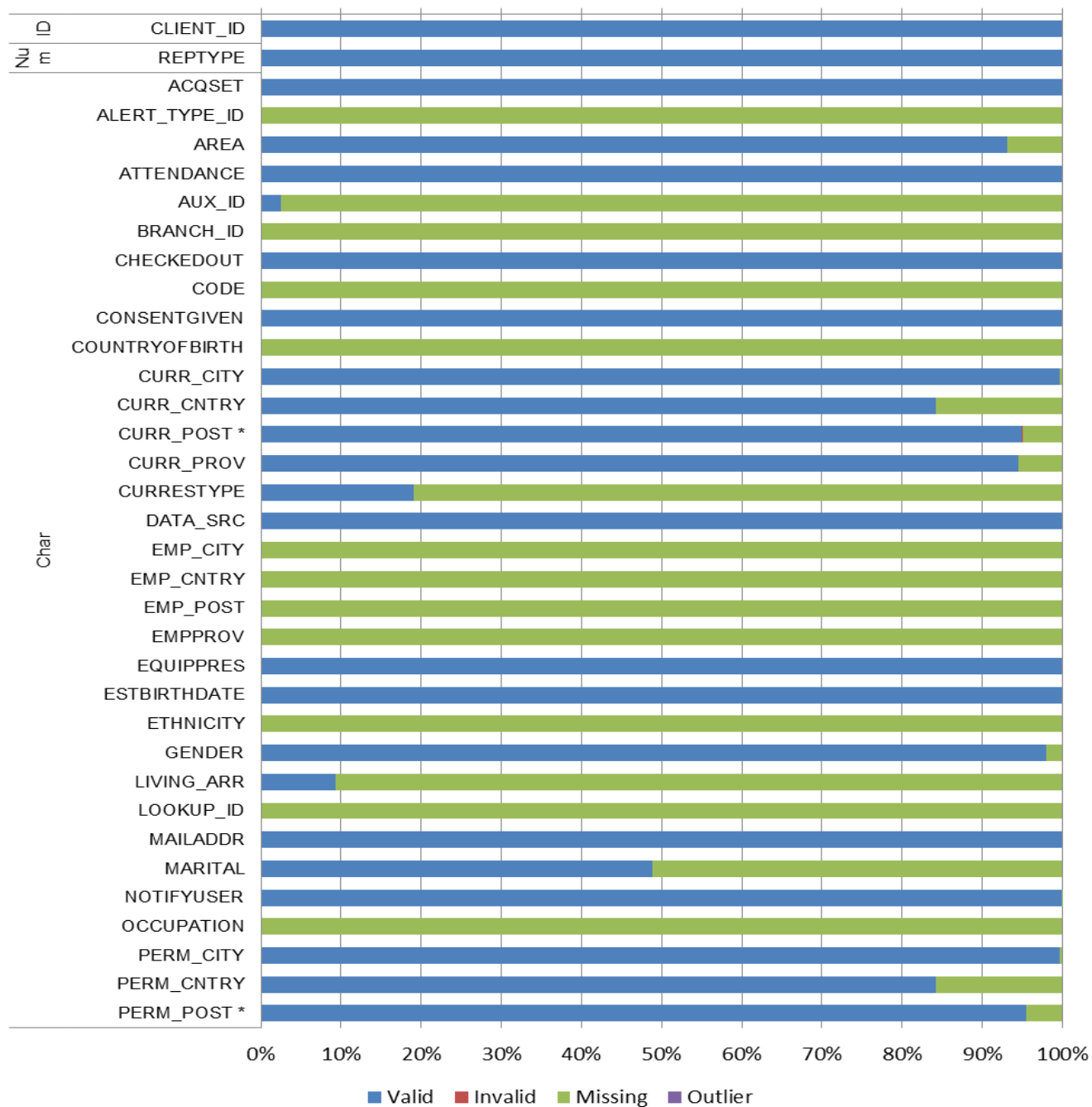


Accuracy: Completeness and Correctness (VIMO Table)

CLIENTS Table

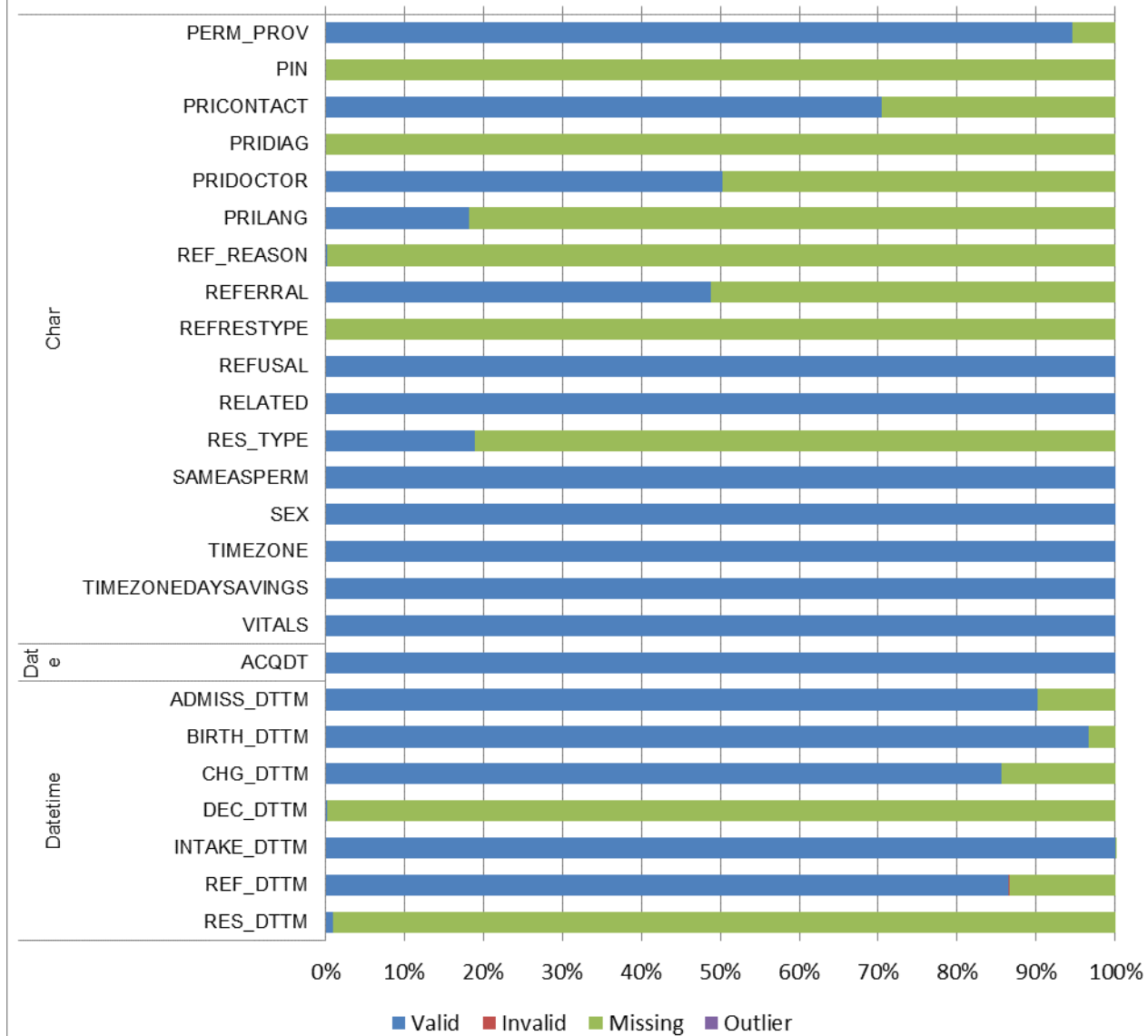
	Dataset Label: PROCURA - CLIENTS : 2010 Onwards			Records: 142302			Legend (Potential Data Quality Problems) :						
	Dataset Name: WRHA_PROCURA_CLIENTS_2010 (cluster me			Period: 2010-2015			None or Minimal < 5%	Moderate 5-30%	Significant > 30%	Unknown or N/A			
	* = All postal codes listed here have frequency count > 20												
	= No variance or 100% missing value						Legend for comment column						
							Blank = variables have not been tested (no formats have been specified for the variables)						
							✓ = Variables have been tested against the associated formats and no invalid values found						
Type	Variable Name	Variable Label	Valid	Invalid	Missing	Outlier	Min	Max	Mean	Median	STD	Comment	
ID	CLIENT_ID	Client Number	100.00		.00								
Num	REPTYPE	Report Type	100.00		.00	.00	0.00	0.00	.00	.00	.00		
							Top 10 Observed Values						
Char	ACQSET	MCHP most recent acquired year	100.00		.00		2015						
	ALERT_TYPE_ID	Alert Type ID	.00		100.00								
	AREA	Area	93.14		6.86		8*, 4GNC, ???Y1, 9J*, 4I*, 07Z, 11Z, 1B, 8????, 12Z						
	ATTENDANCE	Attendance Type	100.00		.00		F, T					✓	
	AUX_ID	Auxiliary ID	2.46		97.54		M11223, M12064, M12323, M12599, M12602, M12965, M142						
	BRANCH_ID	Branch Id	.00		100.00								
	CHECKEDOUT	Checked Out	100.00		.00		C						
	CODE	Code	.00		100.00								
	CONSENTGIVEN	Consent Given	100.00		.00		T, F					✓	
	COUNTRYOFBIRTH	Country of Birth	.02		99.98		Canada, England, CANADA, Canda, Hungary, SRI LANKA, c						
	CURR_CITY	Current City	99.70		.30		Winnipeg, WINNIPEG, PORTAGE LA PRAIRIE, Portage la P						
	CURR_CNTRY	Current Country	84.24		15.76		Canada, CAN, CANADA, CA, CAN., U.S.A., CANADA., CDA						
	CURR_POST *	Current Postal Code	94.93	.12	4.95		R3P 2M2, R3C 0G5, R3B 2W6, R3T 1R2, R3J 1A2, Z1Z 1Z1,					R3B 1W, 34234, 60515, 63130, ... (168 invalid obs. in total)	
	CURR_PROV	Current Province	94.52		5.48		MB, Wi, ON, AB, SK, BC, NU, NB, QC, WI						
	CURRESTYPE	Current Residence Type	19.03		80.97		House, Apartment, EPH, Assisted Living, Hospital, Supportiv						
	DATA_SRC	Data Source	100.00		.00		WPG, RoM						
	EMP_CITY	Employer City	.04		99.96		Winnipeg, Thompson, WINNIPEG, Gillam, Onanole, Otterbur						
	EMP_CNTRY	Employer Country	.03		99.97		Canada, CAN						
	EMP_POST	Employer Postal Code	.02	.00	99.98		Postal codes suppressed due to small frequency count					R1Z (1 invalid obs. in total)	
	EMPPROV	Employer Province	.03		99.97		MB, MB., NF						
	EQUIPPRES	Required Equipment Not Present	100.00		.00		F					✓	
	ESTBIRTHDATE	Birth Date Estimated	100.00		.00		F, T					✓	
	ETHNICITY	Ethnicity	.01		99.99		Italian, Aboriginal, Afghanistan, CANTONESE, CREE, Cantor						
	GENDER	Gender	98.07		1.93		Female, Male, FEMALE, MALE, UNK						
	LIVING_ARR	Living Arrangements	9.31		90.69		Alone, Spouse, Family, EPH, Parents, House, Relatives, Sup						
	LOOKUP_ID	Lookup Table	.02		99.98		M0000000019, VON63698695, M0000000020						
	MAILADDR	Mailing Address Indicator	100.00		.00		P, C						
	MARITAL	Marital	48.91		51.09		Married, Unknown, Widowed, Single, Divorced, Common-law,						
	NOTIFYUSER	Notify User	99.95		.05		F, T					✓	
	OCCUPATION	Occupation	.01		99.99		Pharmacist, Child Support Worker, Day Program, Director of						
PERM_CITY	Permanent City	99.69		.31		Winnipeg, WINNIPEG, PORTAGE LA PRAIRIE, STEINBACH							
PERM_CNTRY	Permanent Country	84.26		15.74		Canada, CAN, CANADA, CA, CAN., CDA, U.S.A., CANADA.							
PERM_POST *	Permanent Postal	95.44	.11	4.46		R3P 2M2, R3C 0G5, R3B 2W6, R3T 1R2, R3J 1A2, R2G 2H9					R3B 1W, 34234, 60515, 63130, ... (150 invalid obs. in total)		

WRHA_PROCURA_CLIENTS_2010



	Dataset Label: PROCURA - CLIENTS : 2010 Onwards			Records: 142302		Legend (Potential Data Quality Problems) :							
	Dataset Name: WRHA_PROCURA_CLIENTS_2010 (cluster members		Period: 2010-2015				None or Minimal < 5%	Moderate 5-30%	Significant > 30%	Unknown or N/A			
	= No variance or 100% missing value												
	= Min, Max values based on valid range						Legend for comment column						
							Blank = variables have not been tested (no formats have been specified for the variables)						
							✓ = Variables have been tested against the associated formats and no invalid values found						
Type	Variable Name	Variable Label	Valid	Invalid	Missing	Outlier	Min	Max	Mean	Median	STD	Comment	
							Top 10 Observed Values						
Char	PERM_PROV	Permanent State	94.57		5.43		MB, ON, Wi, NU, SK, AB, BC, NB, QC, WI						
	PIN	Pin	.00		100.00								
	PRICONTACT	Primary Contact	70.45		29.55		A0000000270, A0000000271, A0000000276, A0000000279, A0000000285, A00000002						
	PRIDIAG	Primary Diagnosis	.00		100.00								
	PRIDOCTOR	Primary Physican	50.25		49.75		A0000000207, A0000000212, A0000000214, A0000000219, A0000000220, A00000002						
	PRILANG	Primary Language	18.24		81.76		F7, F0, FN, VON937159188, FJ, FA, VON485486187, F4, VON715324531, WRHA466						
	REF_REASON	Referral Reason	.24		99.76		Hospital Discharge, Physician Request, RIVERVIEW 3, H/MAKER, Other, HCA, HH &						
	REFERRAL	Referral	48.74		51.26		H.S.C. H.C., ST.BONIFACE H.C, GRACE H.C., VICTORIA H.C, CC, CONCORDIA H.C						
	REFRESTYPE	REFRESTYPE	.02		99.98		House, Apartment, Assisted Living, EPH, Cottage, Trailer Park						
	REFUSAL	Refusal	100.00		.00		F, T					✓	
	RELATED	Related	100.00		.00		F, T					✓	
	RES_TYPE	Type of Residence	18.97		81.03		House, Apartment, EPH, Assisted Living, Supportive Housing, Trailer Park, Hospital, H						
	SAMEASPERM	Same as Permanent Address	100.00		.00		T, F					✓	
	SEX	Sex of Client	100.00		.00		2, 1, 3					✓	
	TIMEZONE	TIMEZONE	100.00		.00		-5						
TIMEZONEDAYSAVINGS	TIMEZONEDAYSAVINGS	100.00		.00		F, T							
VITALS	Vitals Client	100.00		.00		F					✓		
Date	ACQDT	Date Record was Acquired at MCHP	100.00		.00		2016-01-16	2016-01-16					
Datetime	ADMISS_DTTM	Admission Date	90.10	.10	9.80		15JUL1970:12:00:00 AM	04JUN2015:12:00:00 AM				137 invalid obs. out of [01JAN1970:12:00:00PM, 31DEC2017:12:00:00PM]	
	BIRTH_DTTM	Date of Birth	96.62	.01	3.37		22MAR1895:12:00:00 AM	19APR2015:12:00:00 AM				14 invalid obs. out of [01JAN1870:12:00:00PM, 31DEC2015:12:00:00PM]	
	CHG_DTTM	Change Date	85.57		14.43		20FEB2004:08:06:47 AM	04JUN2015:05:28:26 PM					
	DEC_DTTM	Deceased Date	.28		99.72		03FEB2009:12:00:00 AM	02JUN2015:12:00:00 AM				✓	
	INTAKE_DTTM	Intake Date	99.96		.04		21SEP1999:12:00:00 AM	04JUN2015:04:22:02 PM					
	REF_DTTM	Referral Date	86.52	.04	13.44		26JUN1979:12:00:00 AM	09DEC2015:12:00:00 AM				59 invalid obs. out of [01JAN1970:12:00:00PM, 31DEC2017:12:00:00PM]	
	RES_DTTM	Province Residence Date	.91		99.09		05NOV1960:12:00:00 AM	24MAY2015:12:00:00 AM					

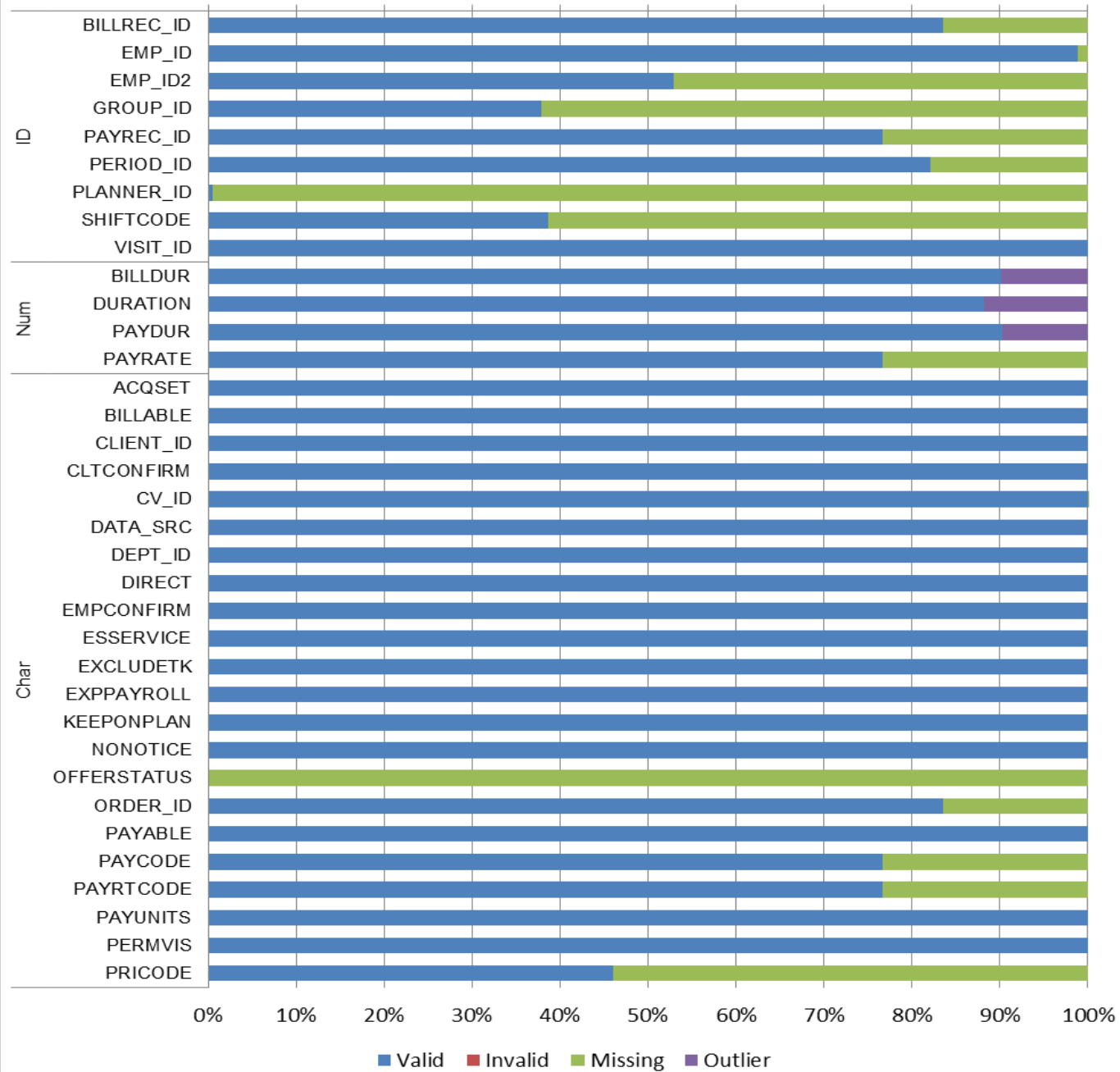
WRHA_PROCURA_CLIENTS_2010



VISITS Table

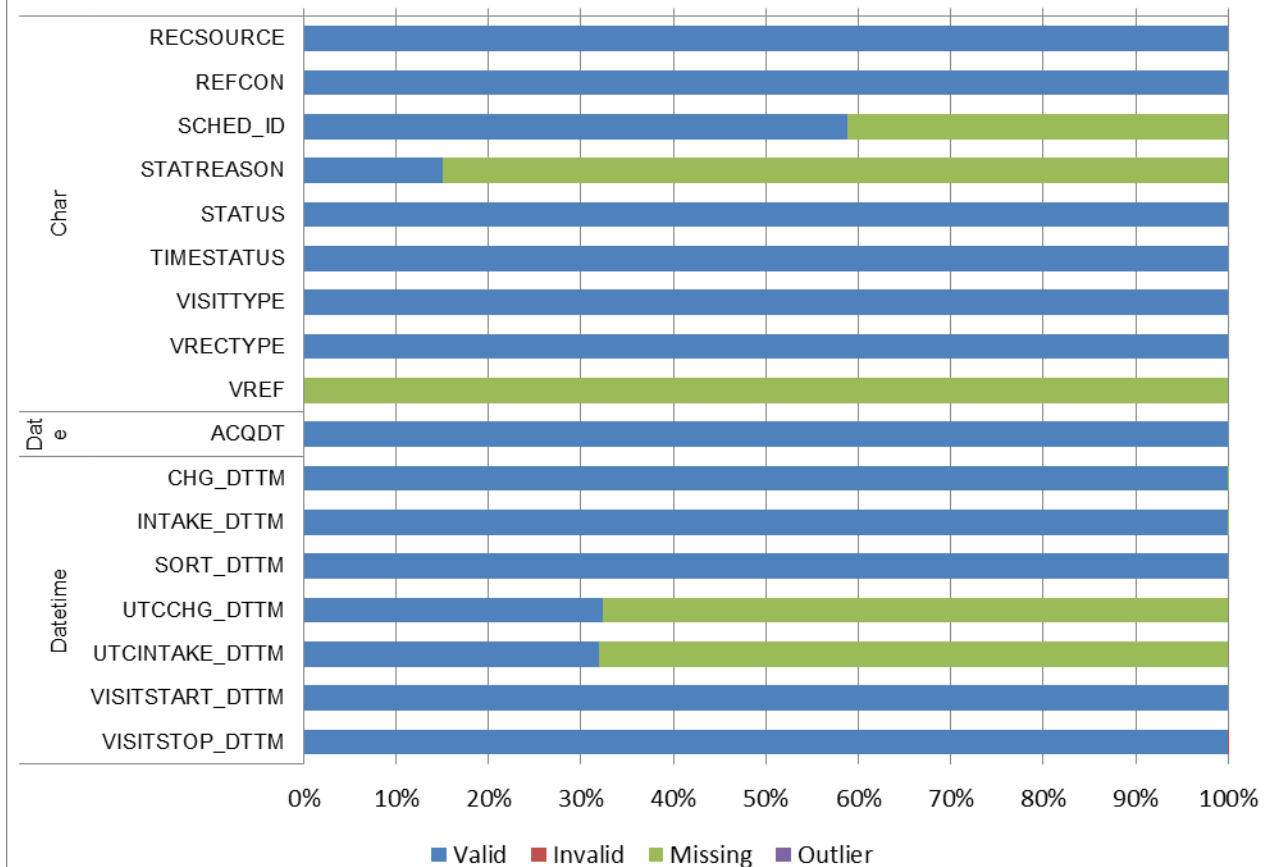
Dataset Label: PROCURA - VISITS : 2010 Onwards			Records: 35519970			Legend (Potential Data Quality Problems) :						
Dataset Name: WRHA_PROCURA_VISITS_2010 (cluster n			Period: 2010-2015			None or Minimal < 5%	Moderate 5-30%	Significant > 30%	Unknown or N/A			
= No variance or 100% missing value												
						Legend for comment column						
						Blank = variables have not been tested (no formats have been specified)						
						✓ = Variables have been tested against the associated formats and are valid						
Type	Variable Name	Variable Label	Valid	Invalid	Missing	Outlier	Min	Max	Mean	Median	STD	Comment
ID	BILLREC_ID	Billing Rec ID	83.57		16.43							
	EMP_ID	Emp ID	98.87		1.13							
	EMP_ID2	Employee Number 2	52.97		47.03							
	GROUP_ID	Group Id	37.88		62.12							
	PAYREC_ID	Pay Rec ID	76.71		23.29							
	PERIOD_ID	Period ID	82.07		17.93							✓
	PLANNER_ID	Planner ID	.52		99.48							✓
	SHIFTCODE	Shift Code ID	38.69		61.31							✓
	VISIT_ID	Visit ID	100.00		.00							
Num	BILLDUR	Billing Duration	90.22		.00	9.78	-16.08	2315.00	.76	.33	2.36	
	DURATION	Duration	88.27		.01	11.73	-52.00	7375.00	.90	.39	2.73	
	PAYDUR	Pay Duration	90.23		.00	9.77	-26.00	2315.00	.75	.33	2.25	
	PAYRATE	Pay Rate	76.61		23.39	.00	0.00	39.32	8.95	4.62	9.42	
Top 10 Observed Values												
Char	ACQSET	MCHP most recent acquired year	100.00		.00		2015					
	BILLABLE	Billable	100.00		.00		T, F					
	CLIENT_ID	Client Group Number	100.00		.00		WRHA591424970, D0000034751, M0000000035, M00000000					
	CLTCONFIRM	Confirmed with Client	100.00		.00		T, F					
	CV_ID	Captured Visit ID	99.99		.01		5195, 9946, 9560, 7262, 9123, 3406, 0777, 2518, 2316, 1202					
	DATA_SRC	Data Source	100.00		.00		WPG, RoM					
	DEPT_ID	Department Number	100.00		.00		M0000000027, VON123, M0000000044, M0000000011, M000					✓
	DIRECT	Direct or Indirect Visit	100.00		.00		T, F, O					
	EMPCONFIRM	Confirmed with Employee	100.00		.00		T, F					
	ESSERVICE	Essential Service	100.00		.00		F, T					
	EXCLUDETK	Exclude from Timekeeping	100.00		.00		F, T					
	EXPPAYROLL	Exported to payroll	100.00		.00		F, T					
	KEEPONPLAN	Keep on Planner	100.00		.00		F					
	NONOTICE	Cancel without Notice	100.00		.00		F, T					
	OFFERSTATUS	Offer Status	.00		100.00							
	ORDER_ID	Order Number	83.57		16.43		WRH471320679, D0000116947, M0000001139, WRHA15588					
	PAYABLE	Payable	100.00		.00		T, F					
	PAYCODE	Pay Code	76.61		23.39		00, 24, 11, 35, 04, 98, 28, 43, 14, 18					
	PAYRTCODE	Pay Rate Code	76.61		23.39		TEMP, HCA2Step 4, HCA2 Start, HCA2Step 2, HCA1Step 3					
	PAYUNITS	Pay Units	100.00		.00		Unit					
	PERMVIS	Permanent	100.00		.00		F					
	PRICODE	Priority Code	46.01		53.99		Code 2, Code 3, 2, Code 1, LPN, PC Nurse, 3, 1, RN, LCSP					

WRHA_PROCURA_VISITS_2010



	Dataset Label: PROCURA - VISITS : 2010 Onwards			Records: 35519970			Legend (Potential Data Quality Problems) :					
	Dataset Name: WRHA_PROCURA_VISITS_2010 (cluster member)			Period: 2010-2015			None or Minimal < 5%	Moderate 5-30%	Significant > 30%	Unknown or N/A		
	= No variance or 100% missing value											
	= Min, Max values based on valid range						Legend for comment column					
							Blank = variables have not been tested (no formats have been specified for the variables)					
							✓ = Variables have been tested against the associated formats and no invalid values found					
Type	Variable Name	Variable Label	Valid	Invalid	Missing	Outlier	Min	Max	Mean	Median	STD	Comment
Char	Top 10 Observed Values											
	RECSOURCE	Source	100.00		.00		S, T					
	REFCON	Refusal Conflict	100.00		.00		F					
	SCHED_ID	Schedule ID	58.84		41.16		C0002982727, D0005550780, D0006486117, D0005906805, D0005981311, D0005753					
	STATREASON	Status Reason	15.03		84.97		Hospital, Change in Care Plan, Client, Self Sick, Do Not Use, Family Visiting, Office C					
	STATUS	Visit Status	100.00		.00		A, C, H, R, I					
	TIMESTATUS	Timekeeping Status	100.00		.00		V, U					
	VISITTYPE	Visit Type	100.00		.00		OX, WX, DX, WD, WE, DM, MD					
	VRECTYPE	Record Type	100.00		.00		T, C, S, G					
VREF	Visit Reference	.02		99.98		-0.4, -0.1, 0, -.2, 9.4, 3.0, 1, -.3, 5, 10.1						
Date	ACQDT	Date Record was Acquired at MCHP	100.00		.00		2016-01-16	2016-01-16				
Datetime	CHG_DTTM	Change Date	100.00		.00		03JUN2007:12:43:05 AM	04JUN2015:10:15:45 PM				
	INTAKE_DTTM	Intake Date	100.00		.00		30DEC1899:12:00:00 AM	04JUN2015:09:45:27 PM				
	SORT_DTTM	Sort Date	100.00		.00		05MAR1998:12:00:00 AM	27OCT2016:12:00:00 AM				✓
	UTCCHG_DTTM	UTCCHGDATE	32.37		67.63		24MAR2013:12:56:29 PM	05JUN2015:02:45:38 AM				✓
	UTCINTAKE_DTTM	UTCINTAKE	31.98		68.02		14SEP2001:11:05:16 PM	05JUN2015:02:45:28 AM				✓
	VISITSTART_DTTM	Visit Start Date	100.00	.00	.00		05MAR1998:12:00:00 AM	27OCT2016:12:00:00 AM				30DEC1899:07:00:00 AM (
												1 Invalid Obs. in total)
	VISITSTOP_DTTM	Visit Stop Date	100.00	.00	.00		05MAR1998:12:00:00 AM	27OCT2016:12:00:00 AM				9 invalid obs. out of
											[01JAN1970:12:00:00PM,	
											31DEC2017:12:00:00PM]	

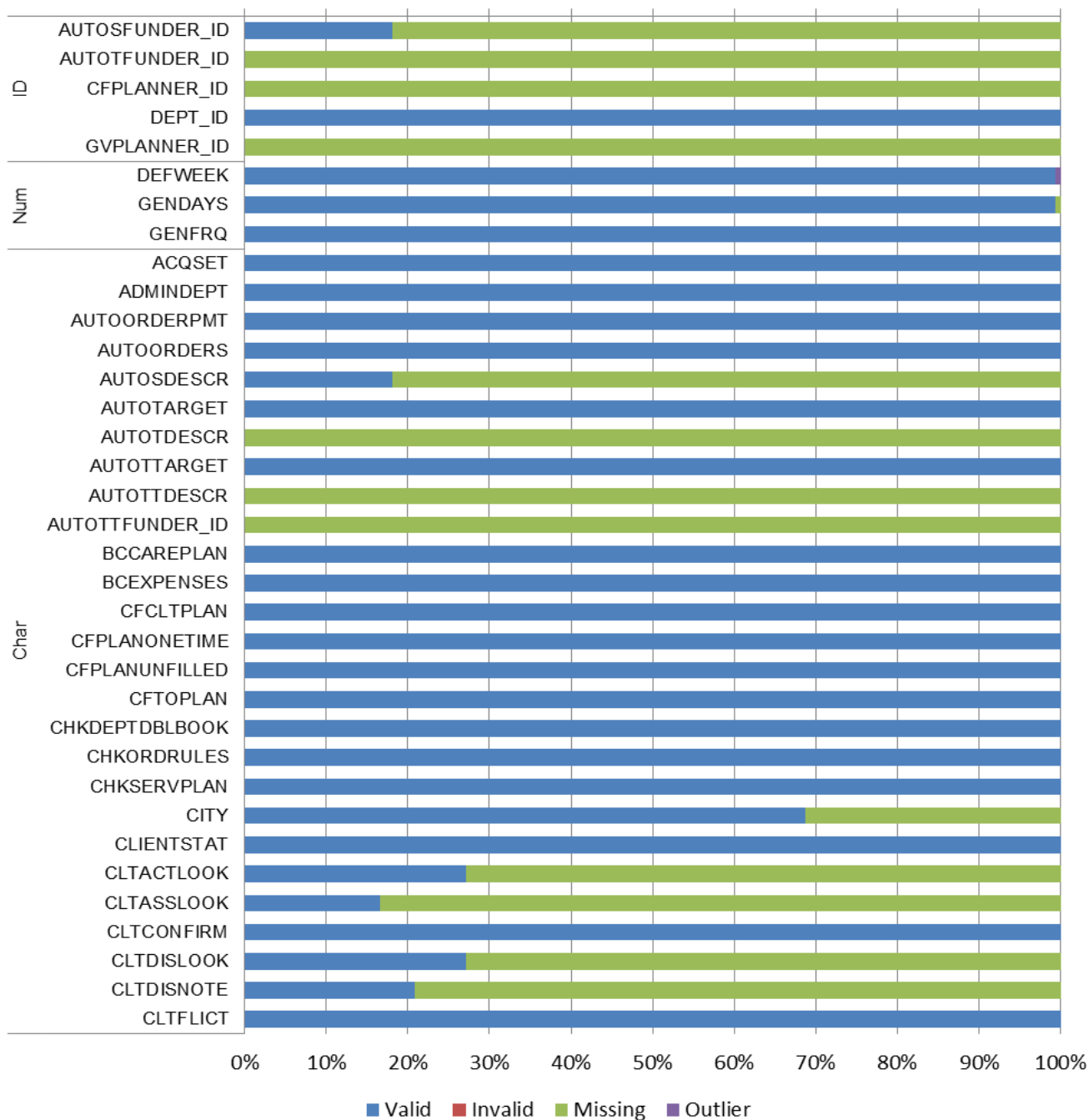
WRHA_PROCURA_VISITS_2010



DEPARTMENTS Table

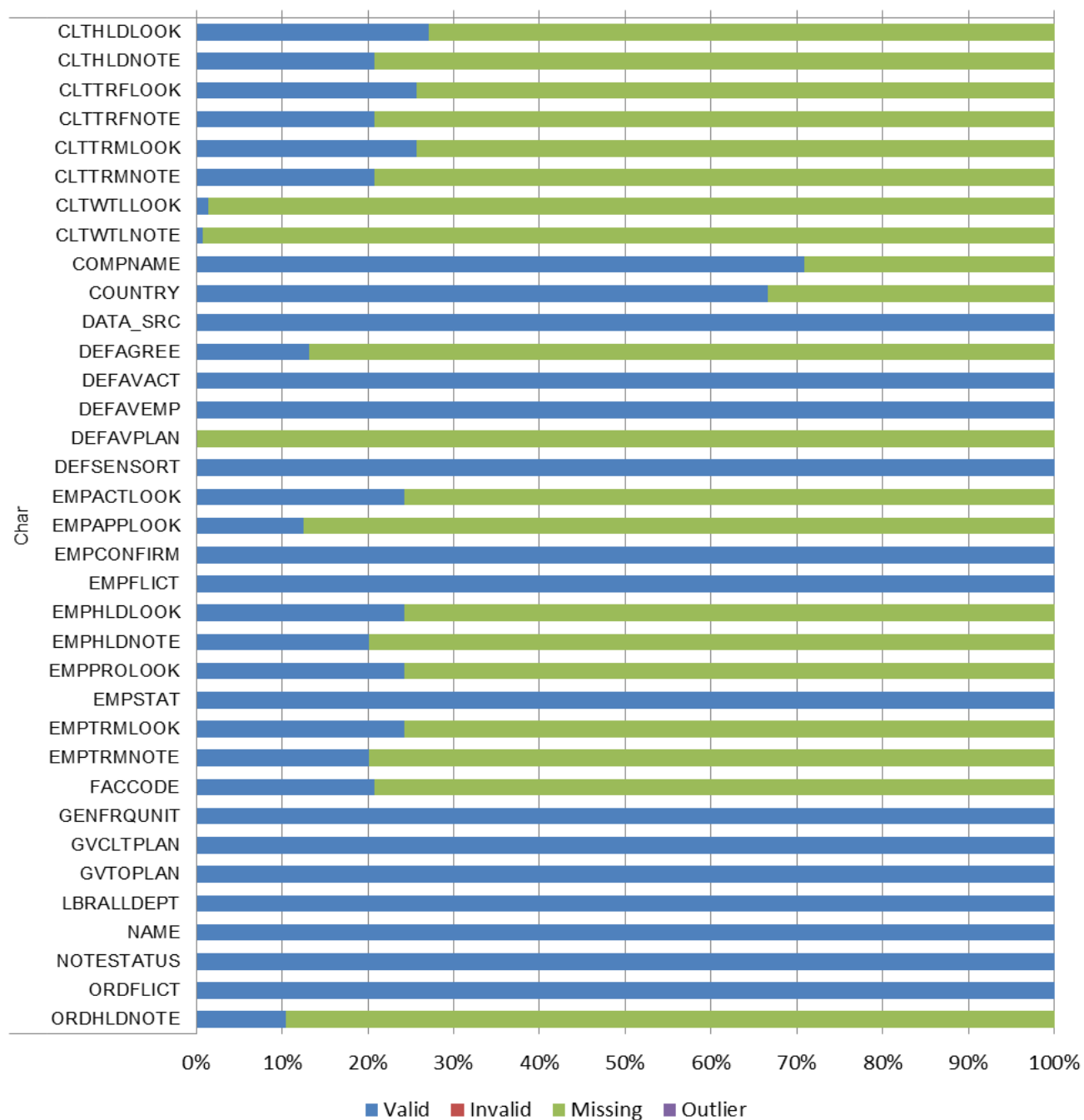
	Dataset Label: PROCURA - DEPARTMENTS : 2010 Onwards			Records: 144		Legend (Potential Data Quality Problems) :						
	Dataset Name: WRHA PROCURA DEPARTMENTS 2010 (cluster memb		Period: 2010-2015				None or Minimal < 5%	Moderate 5-30%	Significant > 30%	Unknown or N/A		
	= No variance or 100% missing value											
							Legend for comment column					
							Blank = variables have not been tested (no formats have been spe					
Type	Variable Name	Variable Label	Valid	Invalid	Missing	Outlier	Min	Max	Mean	Median	STD	Comment
ID	AUTOSFUNDER_ID	Auto Source Funder Id	18.06		81.94							
	AUTOTFUNDER_ID	Auto Target Funder Id	.00		100.00							
	CFPLANNER_ID	Conflicts Planner Id	.00		100.00							
	DEPT_ID	Department Number	100.00		.00							
	GVPLANNER_ID	Client Group Visit Planner ID	.00		100.00							
Num	DEFWEEK	Default Start of Week	99.31		.00	.69	1.00	6.00	1.03	1.00	.42	
	GENDAYS	Generation Days	99.31		.69	.00	7.00	7.00	7.00	7.00	.00	
	GENFRQ	Generation Fequency	100.00		.00	.00	0.00	14.00	6.76	2.01	6.41	
							Top 10 Observed Values					
Char	ACQSET	MCHP most recent acquired year	100.00		.00		2015					
	ADMINDEPT	Admin Department	100.00		.00		F					
	AUTOORDERPMT	Auto Orders Prompt	100.00		.00		F, T					
	AUTOORDERS	Auto Orders	100.00		.00		F, T					
	AUTOSDESCR	Auto Source Descr	18.06		81.94		Manitoba Health, Registration, MB Health, Manitoba Health N					
	AUTOTARGET	Auto Target	100.00		.00		F					
	AUTOTDESCR	Auto Target Descr	.00		100.00							
	AUTOTTARGET	Auto Target Target	100.00		.00		F					
	AUTOTTDESCR	Auto Target Target Descr	.00		100.00							
	AUTOTTFUNDER_ID	Auto Target Target Funder Id	.00		100.00							
	BCCAREPLAN	Bill Calc Careplan	100.00		.00		T, F					
	BCEXPENSES	Bill Calc Expenses	100.00		.00		T, F					
	CFCLTPLAN	Conflicts to Client Planner	100.00		.00		F					
	CFPLANONETIME	Conflicts to Planner Onetime	100.00		.00		F					
	CFPLANUNFILLED	Conflicts to Planner Unfilled	100.00		.00		T					
	CFTOPLAN	Conflicts to Planner	100.00		.00		F					
	CHKDEPTDBLBOOK	Check Double Bookings outside Department	100.00		.00		T, F					
	CHKORDRULES	CHKORDRULES	100.00		.00		F					
	CHKSERVPLAN	Check Order Service Plan	100.00		.00		F					
	CITY	City	68.75		31.25		Winnipeg, La Broquerie, Pinawa, Shoal Lake, Stonewall, Dau					
	CLIENTSTAT	Initial Client Status	100.00		.00		A, I					
	CLTACTLOOK	Client Active Status Lookup	27.08		72.92		WRHA789796690					
	CLTASSLOOK	Client Assessment Status Lookup	16.67		83.33		WRHA740071364					
	CLTCONFIRM	Confirm Client Visits	100.00		.00		F, T					
	CLTDISLOOK	Client Discharge Status Lookup	27.08		72.92		WRHA29613515, WRHA740071364					
	CLTDISNOTE	Client Discharge Note Type	20.83		79.17		WRHA188806568					
	CLTFLICT	Client Conflict Log Action	100.00		.00		T, F					

WRHA_PROCURA_DEPARTMENTS_2010

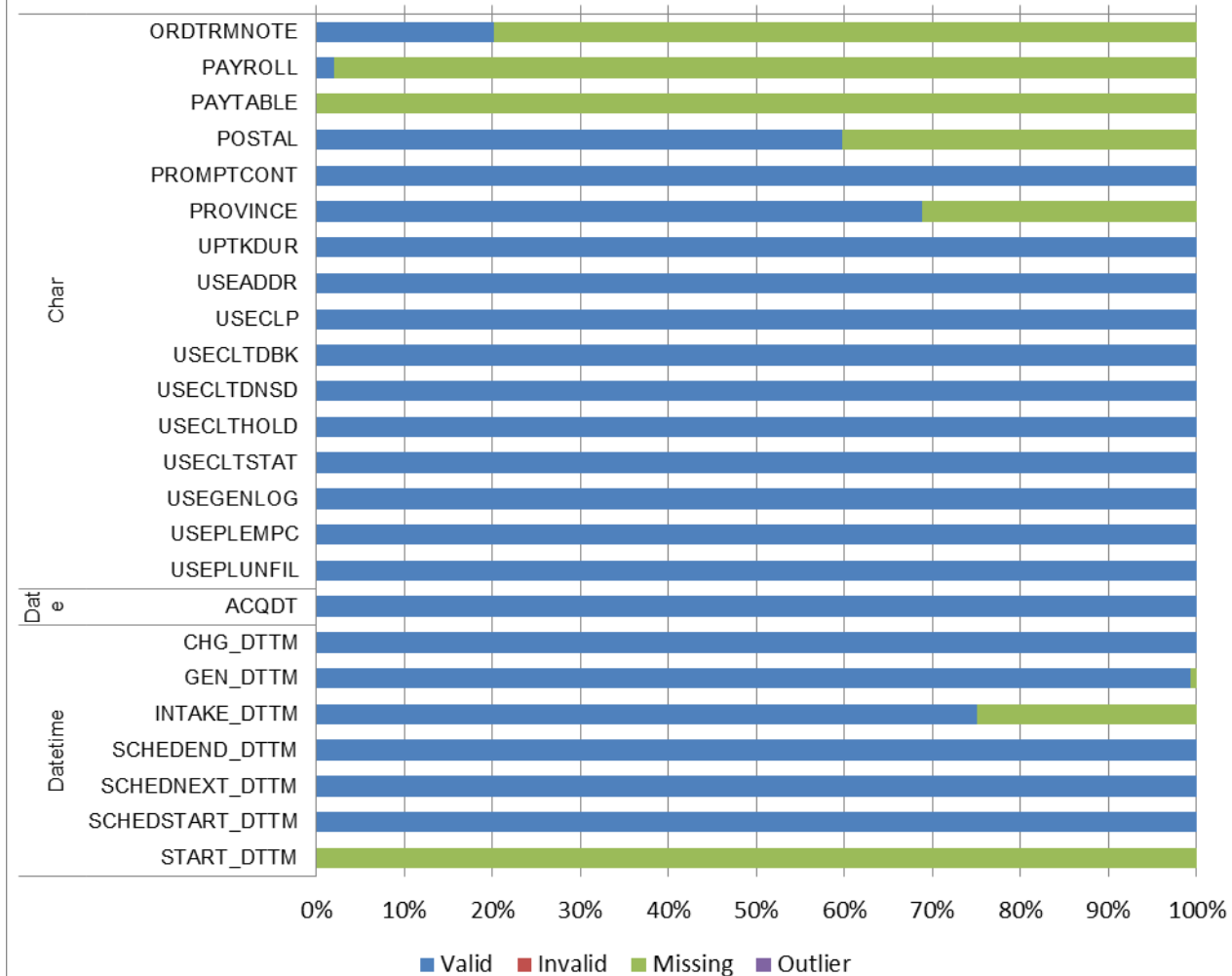


	Dataset Label: PROCURA - DEPARTMENTS : 2010 Onwards		Records: 144		Legend (Potential Data Quality Problems) :							
	Dataset Name: WRHA_PROCURA_DEPARTMENTS_2010 (cluster)		Period: 2010-2015		None or Minimal < 5%		Moderate 5-30%	Significant > 30%	Unknown or N/A			
	= No variance or 100% missing value											
						Legend for comment column						
						Blank = variables have not been tested (no formats have been specified)						
Type	Variable Name	Variable Label	Valid	Invalid	Missing	Outlier	Min	Max	Mean	Median	STD	Comment
Char							Top 10 Observed Values					
	CLTHLDLOOK	Client Hold Status Lookup	27.08		72.92		WRHA188469051, WRHA29613515					
	CLTHLDNOTE	Client Hold Note Type	20.83		79.17		WRHA188806568					
	CLTTRFLOOK	Client Transferred Status Lookup	25.69		74.31		WRHA480876410					
	CLTTRFNOTE	Client Transferred Note Type	20.83		79.17		WRHA188806568					
	CLTTRMLOOK	Client Terminated Status Lookup	25.69		74.31		WRHA608720882, WRHA286519567					
	CLTTRMNOTE	Client Terminated Note Type	20.83		79.17		WRHA188806568					
	CLTWTLLOOK	Client Wait List Status Lookup	1.39		98.61		D0000000005, WRHA608720882					
	CLTWTLNOTE	Order Wait List Note Type	.69		99.31		WRHA188806568					
	COMPNAME	Department Company Name	70.83		29.17		Winnipeg Regional Health Authority, Northern Regional Health					
	COUNTRY	Country	66.67		33.33		CAN, Canada, USA					
	DATA_SRC	Data Source	100.00		.00		RoM, WPG					
	DEFAGREE	Default Agreement Id	13.19		86.81		WRHA145076766, WRHA850675893					
	DEFAVACT	Default Availability Action	100.00		.00		B					
	DEFAVEMP	Default Availability Action No Employee	100.00		.00		F					
	DEFAVPLAN	Default Availability Action Planner	.00		100.00							
	DEFSENSORT	Default Seniority Sort	100.00		.00		N, L, W					
	EMPACTLOOK	Emp Active Status Lookup	24.31		75.69		WRHA595814120					
	EMPAPPLOOK	Emp Applicant Status Lookup	12.50		87.50		WRHA485933719					
	EMPCONFIRM	Confirm Employee Visits	100.00		.00		F, T					
	EMPFLICT	Employee Conflict Log Action	100.00		.00		T, F					
	EMPHLDLOOK	Emp Hold Status Lookup	24.31		75.69		WRHA163821155					
	EMPHLDNOTE	Employee Hold Note Type	20.14		79.86		WRHA493093740, WRHA188806568					
	EMPPROLOOK	Emp Probation Status Lookup	24.31		75.69		WRHA379402788					
	EMPSTAT	Initial Employee Status	100.00		.00		A, P, L					
	EMPTRMLOOK	Emp Terminated Status Lookup	24.31		75.69		WRHA286519567					
	EMPTRMNOTE	Employee Terminated Note Type	20.14		79.86		WRHA493093740, WRHA188806568					
	FACCODE	Faculty Code	20.83		79.17		22, 02, 08, 09, 10, 10A, 12345, 14, 20, 27					
	GENFRQUNIT	Generation Frequency Units	100.00		.00		M, D					
	GVCLTPLAN	Client Group Visit Use Client Planner	100.00		.00		F					
	GVTOPLAN	Client Group Visit to Planner	100.00		.00		F					
	LBRALLDEPT	Labor Rules Check All Dept	100.00		.00		F					
	NAME	Name	100.00		.00		1 EFT SHADOW XZ, 2 EFT SHADOW DT, 3 NURSING PILO					
	NOTESTATUS	Create Dated Notes for Statuses	100.00		.00		F, T					
	ORDFLICT	Order Conflict Log Action	100.00		.00		T, F					
	ORDHLDNOTE	Order Hold Note Type	10.42		89.58		WRHA188806568					

WRHA_PROCURA_DEPARTMENTS_2010



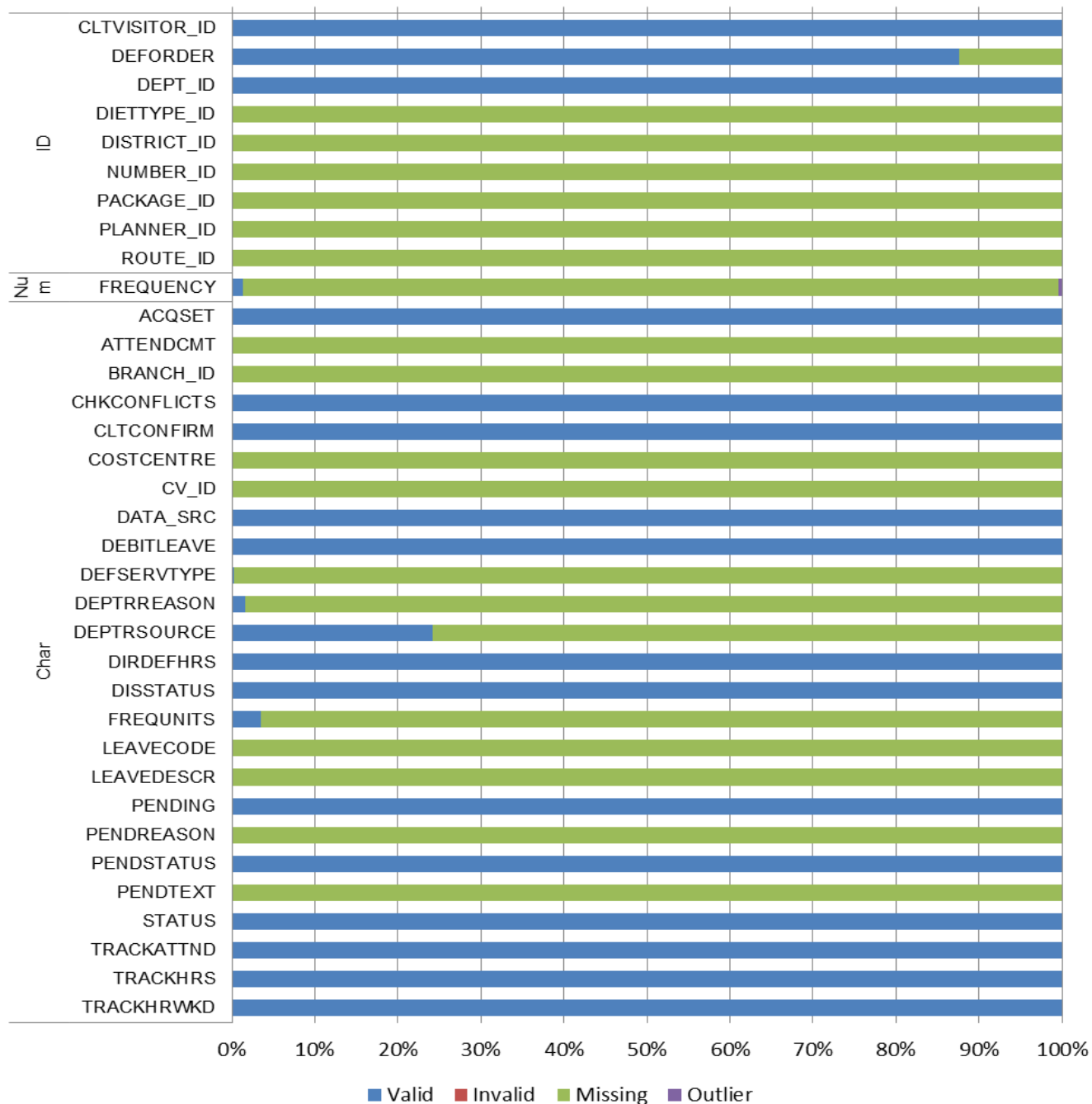
WRHA_PROCURA_DEPARTMENTS_2010



Client Department Table

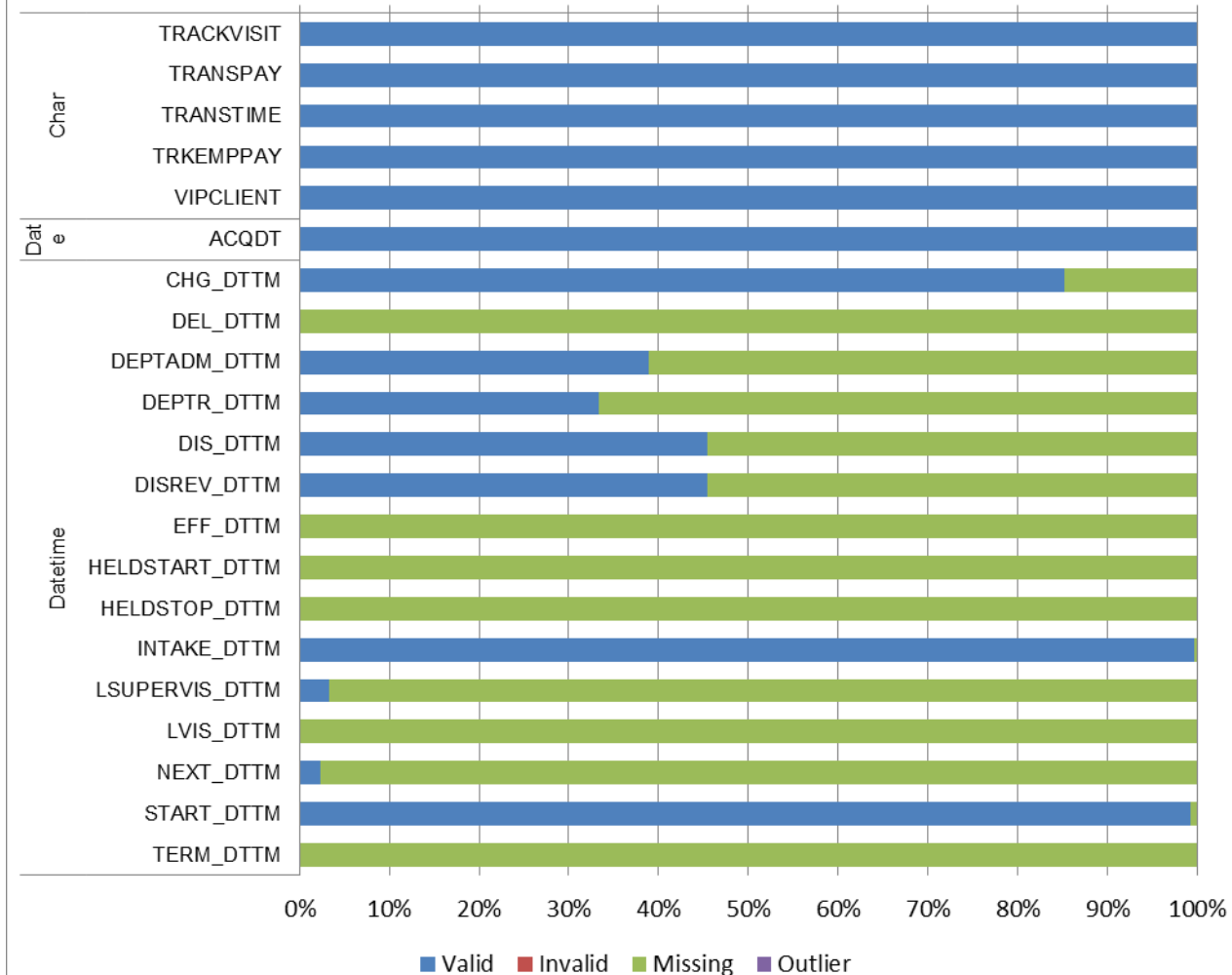
	Dataset Label: PROCURA - CLTDEPT : 2010 Onwards			Records: 270765			Legend (Potential Data Quality Problems) :						
	Dataset Name: WRHA_PROCURA_CLTDEPT_2010 (cluste			Period: 2010-2015			None or Minimal < 5%	Moderate 5-30%	Significant > 30%	Unknown or N/A			
	= No variance or 100% missing value												
							Legend for comment column						
							Blank = variables have not been tested (no formats have been spe						
							✓ = Variables have been tested against the associated formats and						
Type	Variable Name	Variable Label	Valid	Invalid	Missing	Outlier	Min	Max	Mean	Median	STD	Comment	
ID	CLTVISITOR_ID	Client Group Number	100.00		.00								
	DEFORDER	Default Order	87.59		12.41								
	DEPT_ID	Department Number	100.00		.00							✓	
	DIETTYPE_ID	Type ID	.00		100.00								
	DISTRICT_ID	District ID	.00		100.00								
	NUMBER_ID	Number Id	.04		99.96								
	PACKAGE_ID	Package ID	.00		100.00								
	PLANNER_ID	Planner ID	.00		100.00								
	ROUTE_ID	Route ID	.00		100.00								
Num	FREQUENCY	Supervisor Frequency	1.36		98.27	.38	0.00	12.00	2.14	1.00	2.13		
							Top 10 Observed Values						
Char	ACQSET	MCHP most recent acquired year	100.00		.00		2015						
	ATTENDCMT	Attendance Comment	.07		99.93		Do Not Use, Family Sick, Self Sick, Refused Assignment						
	BRANCH_ID	Branch Id	.00		100.00								
	CHKCONFLICTS	Check Conflicts	100.00		.00		T, F						
	CLTCONFIRM	Display Visit Confirmation	100.00		.00		T, F						
	COSTCENTRE	Cost Centre Expense Code	.16		99.84		TMPC02708, TMPC02705, TMPC02706, TMPC02455, TMPC						
	CV_ID	CV Id	.00		100.00								
	DATA_SRC	Data Source	100.00		.00		WPG, RoM						
	DEBITLEAVE	Debit Leave Entitlement	100.00		.00		F						
	DEFSERVTYPE	Default Service Type	.24		99.76		OT 1.5X, SP-SPLIT, AT-Admin, AT-In Serv, AT-Train, AT-Unio						
	DEPTRREASON	Referral Reason	1.61		98.39		Hospital Discharge, Physician Request, Long Term Referral,						
	DEPTRSOURCE	Referral	24.18		75.82		C, A, B, D, F, E, Concordia ER, SBGH ER, Z, Victoria ER						
	DIRDEFHRS	Hours Default Switch	100.00		.00		D, I, O						
	DISSTATUS	Discharge Status	100.00		.00		I, C						
	FREQUNITS	Frequency Units	3.48		96.52		Annually, Y, Monthly, Weekly, Month, Year						
	LEAVECODE	Leave Mgmt Code	.00		100.00								
	LEAVEDESCR	Leave Mgmt Description	.00		100.00								
	PENDING	Pending	100.00		.00		F						
	PENDREASON	Pending Reason	.00		100.00								
	PENDSTATUS	Pending Status	100.00		.00		A						
	PENDTEXT	Pending Comments	.00		100.00								
	STATUS	Status	100.00		.00		D, A, T, C, X, I, N, H						
	TRACKATTND	Track for Attendance	100.00		.00		S						
	TRACKHRS	Track Hours	100.00		.00		F, T						
	TRACKHRWKD	Track as Hours Worked	100.00		.00		F, T						

WRHA_PROCURA_CLTDEPT_2010



Dataset Label: PROCURA - CLTDEPT : 2010 Onward Records: 270765						Legend (Potential Data Quality Problems) :						
Dataset Name: WRHA_PROCURA_CLTDEPT_2010 (c Period: 2010-2015						None or Minimal < 5%	Moderate 5-30%	Significant > 30%	Unknown or N/A			
= No variance or 100% missing value												
= Min, Max values based on valid range						Legend for comment column						
						Blank = variables have not been tested (no formats have been specified for the variables)						
						✓ = Variables have been tested against the associated formats and no invalid values found						
Type	Variable Name	Variable Label	Valid	Invalid	Missing	Outlier	Min	Max	Mean	Median	STD	Comment
Char	Top 10 Observed Values											
	TRACKVISIT	Track Visits	100.00		.00		F					
	TRANSPAY	Transfer to Payroll	100.00		.00		F, T					
	TRANSTIME	Transfer to Timekeeping	100.00		.00		F, T					
	TRKEMPPAY	Track with Employee Payrate	100.00		.00		F, T					
	VIPCLIENT	VIP Client	100.00		.00		F					
Date	ACQDT	Date Record was Acquired at MCHP	100.00		.00		2016-01-16	2016-01-16				
Datetime	CHG_DTTM	Change Date	85.19		14.81		20FEB2004:08:03:34 AM	04JUN2015:05:44:29 PM				
	DEL_DTTM	Deletion Date	.00		100.00							
	DEPTADM_DTTM	Admission Date	38.96	.00	61.04		31OCT1976:12:00:00 AM	18DEC2015:12:00:00 AM				25MAR2040:12:00:00 AM, 29OCT2102:12:00:00 AM (2 Invalid Obs. in total)
	DEPTR_DTTM	Referral Date	33.32		66.68		24MAY1988:12:00:00 AM	18DEC2015:12:00:00 AM				✓
	DIS_DTTM	Discharge Date	45.50		54.50		04NOV1994:12:00:00 AM	04AUG2015:12:00:00 AM				✓
	DISREV_DTTM	Discharge Review Date	45.50		54.50		04NOV1994:12:00:00 AM	04AUG2015:12:00:00 AM				✓
	EFF_DTTM	Effective Date	.00		100.00							
	HELDSTART_DTTM	Held Start Date	.17		99.83		09MAR1994:12:00:00 AM	30DEC1999:12:00:00 AM				✓
	HELDSTOP_DTTM	Held Stop Date	.17		99.83		28FEB1986:12:00:00 AM	30DEC1999:12:00:00 AM				✓
	INTAKE_DTTM	Intake Date	99.72		.28		05OCT1999:02:33:35 PM	04JUN2015:04:23:06 PM				
	LSUPERVIS_DTTM	Last Supervisor Visit Date	3.25		96.75		23APR2000:12:00:00 AM	16SEP2015:12:00:00 AM				✓
	LVIS_DTTM	Last Visit Date	.00		100.00		01JUN2000:12:00:00 AM	09JAN2004:12:00:00 AM				✓
	NEXT_DTTM	Next Supervisor Date	2.37		97.63		21MAY2003:12:00:00 AM	24AUG2017:12:00:00 AM				✓
	START_DTTM	Start Date	99.31	.00	.69		15JUL1970:12:00:00 AM	04JUN2015:12:00:00 AM				31DEC1913:12:00:00 AM, 31OCT1919:12:00:00 AM, 25MAR2040:12:00:00 AM (3 Invalid Obs. in total)
	TERM_DTTM	Termination Date	.00		100.00		29OCT1999:12:00:00 AM	30DEC1999:12:00:00 AM				✓

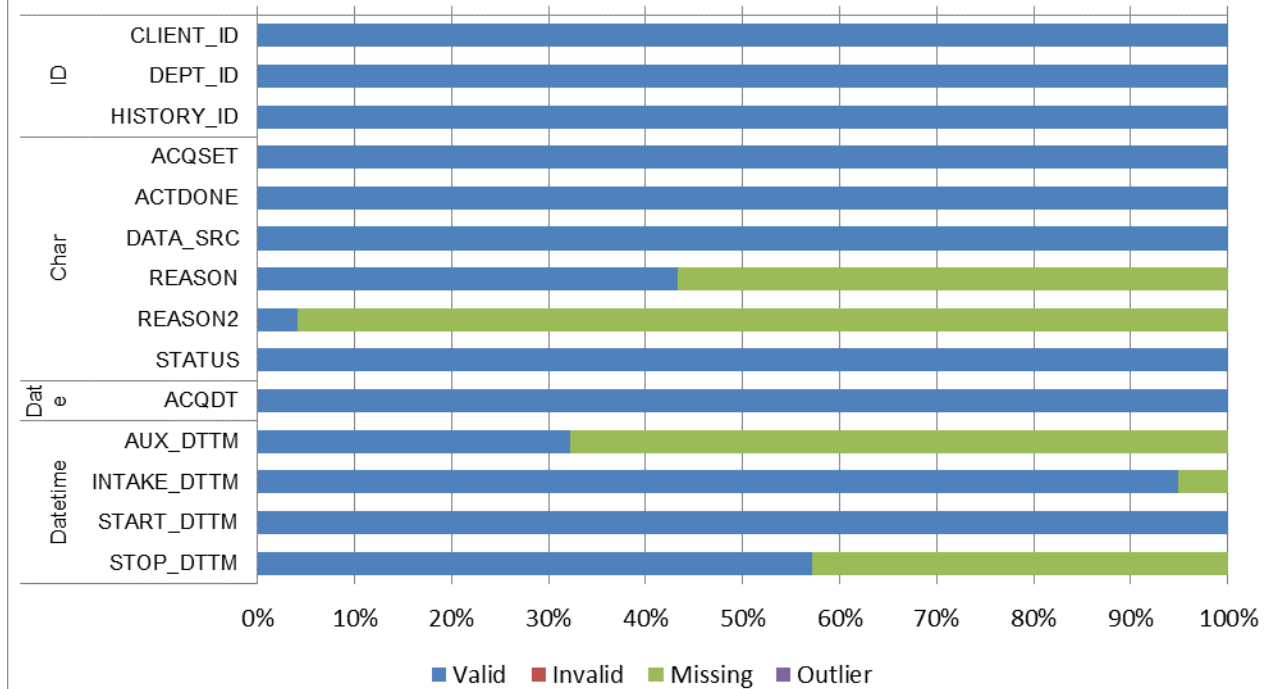
WRHA_PROCURA_CLTDEPT_2010



Client Status Table

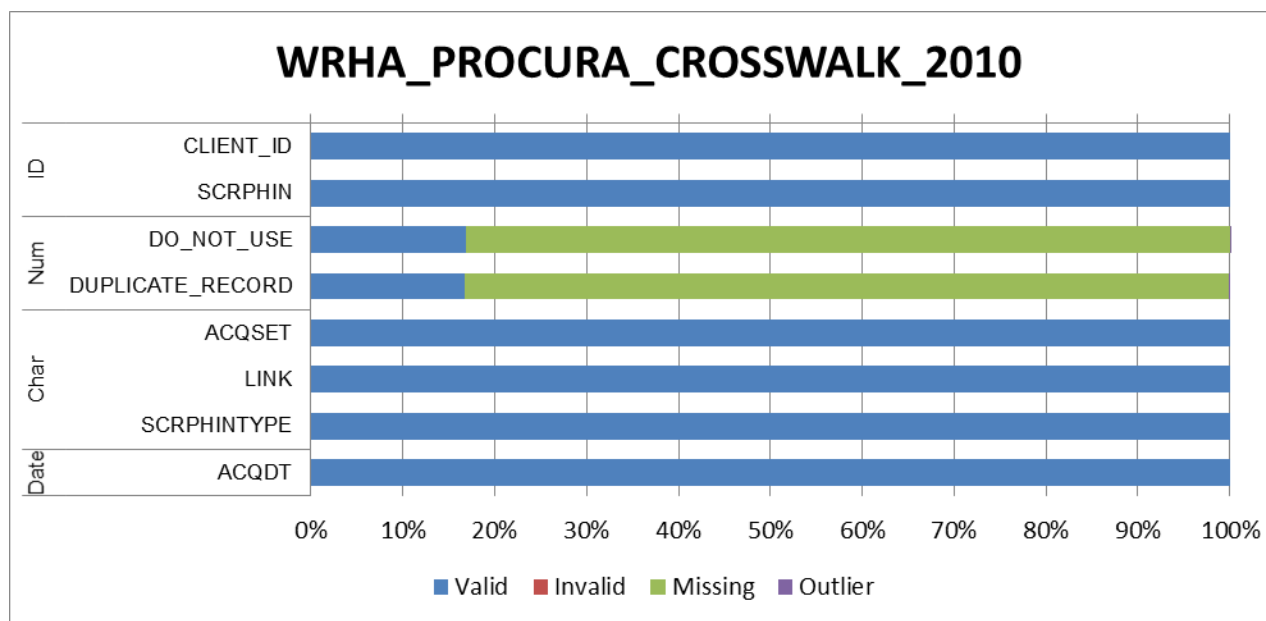
Dataset Label: PROCURA - CLTSTATUS : 2010 Onwards			Records: 655227			Legend (Potential Data Quality Problems) :						
Dataset Name: WRHA_PROCURA_CLTSTATUS_2010 (cluster)			Period: 2010-2015			None or Minimal < 5%	Moderate 5-30%	Significant > 30%	Unknown or N/A			
= No variance or 100% missing value												
						Legend for comment column						
						Blank = variables have not been tested (no formats have been specified for the variables)						
Type	Variable Name	Variable Label	Valid	Invalid	Missing	Outlier	Min	Max	Mean	Median	STD	Comment
ID	CLIENT_ID	Client Group Number	100.00		.00							
	DEPT_ID	Department Number	100.00		.00							
	HISTORY_ID	Client Status History	100.00		.00							
							Top 10 Observed Values					
Char	ACQSET	MCHP most recent acquired year	100.00		.00		2015					
	ACTDONE	Action Done	100.00		.00		T, F					
	DATA_SRC	Data Source	100.00		.00		WPG, RoM					
	REASON	Reason	43.33		56.67		01. Recovered-Serv Not Require, Eligible for Home Care, Client Deceased, WPGImport					
	REASON2	REASON2	4.15		95.85		DEPT_REORG					
	STATUS	Status	100.00		.00		A, D, T, H, C, I, X, N, W					
Date	ACQDT	Date Record was Acquired at MCHP	100.00		.00		2016-01-16	2016-01-16				
Datetime	AUX_DTTM	Auxiliary Date	32.22		67.78		04APR1994:12:00:00 AM	18JUN2015:12:00:00 AM				
	INTAKE_DTTM	Intake Date	94.91		5.09		15FEB2001:10:46:00 AM	04JUN2015:05:44:29 PM				
	START_DTTM	Start Date	100.00		.00		30DEC1899:12:00:00 AM	31DEC2099:12:00:00 AM				
	STOP_DTTM	Stop Date	57.14		42.86		16JAN1998:12:00:00 AM	03AUG2015:12:00:00 AM				

WRHA_PROCURA_CLTSTATUS_2010



CrossWalk Table

	Dataset Label: PROCURA - CROSSWALK : 2010 Onwards			Records: 142302			Legend (Potential Data Quality Problems) :						
	Dataset Name: WRHA_PROCURA_CROSSWALK_2010 (cluster member)			Period: 2010-2015			None or Minimal < 5%	Moderate 5-30%	Significant > 30%	Unknown or N/A			
	= No variance or 100% missing value												
							Legend for comment column						
							Blank = variables have not been tested (no formats have been specified)						
Type	Variable Name	Variable Label	Valid	Invalid	Missing	Outlier	Min	Max	Mean	Median	STD	Comment	
ID	CLIENT_ID	CLIENT_ID	100.00		.00								
	SCRPHIN	MCHP Scrambled Personal Health Information Number	100.00		.00								
Num	DO_NOT_USE	Last Name had the phrase DO NOT USE	16.82		83.14	.03	0.00	1.00	.00	.00	.04		
	DUPLICATE_RECORD	Last Name had the word DUPLICATE	16.74		83.14	.12	0.00	1.00	.01	.00	.08		
							Top 10 Observed Values						
Char	ACQSET	MCHP most recent acquired year	100.00		.00		2015						
	LINK	Description of linkage	100.00		.00		Link 1, No Link, Link 2, ADDRESS, NOT CASES, Link 3, Link 4						
	SCRPHINTYPE	MCHP method for assigning SCRPHIN	100.00		.00		0, 4						
Date	ACQDT	Date record was acquired by MCHP	100.00		.00		2016-01-16	2016-01-16					



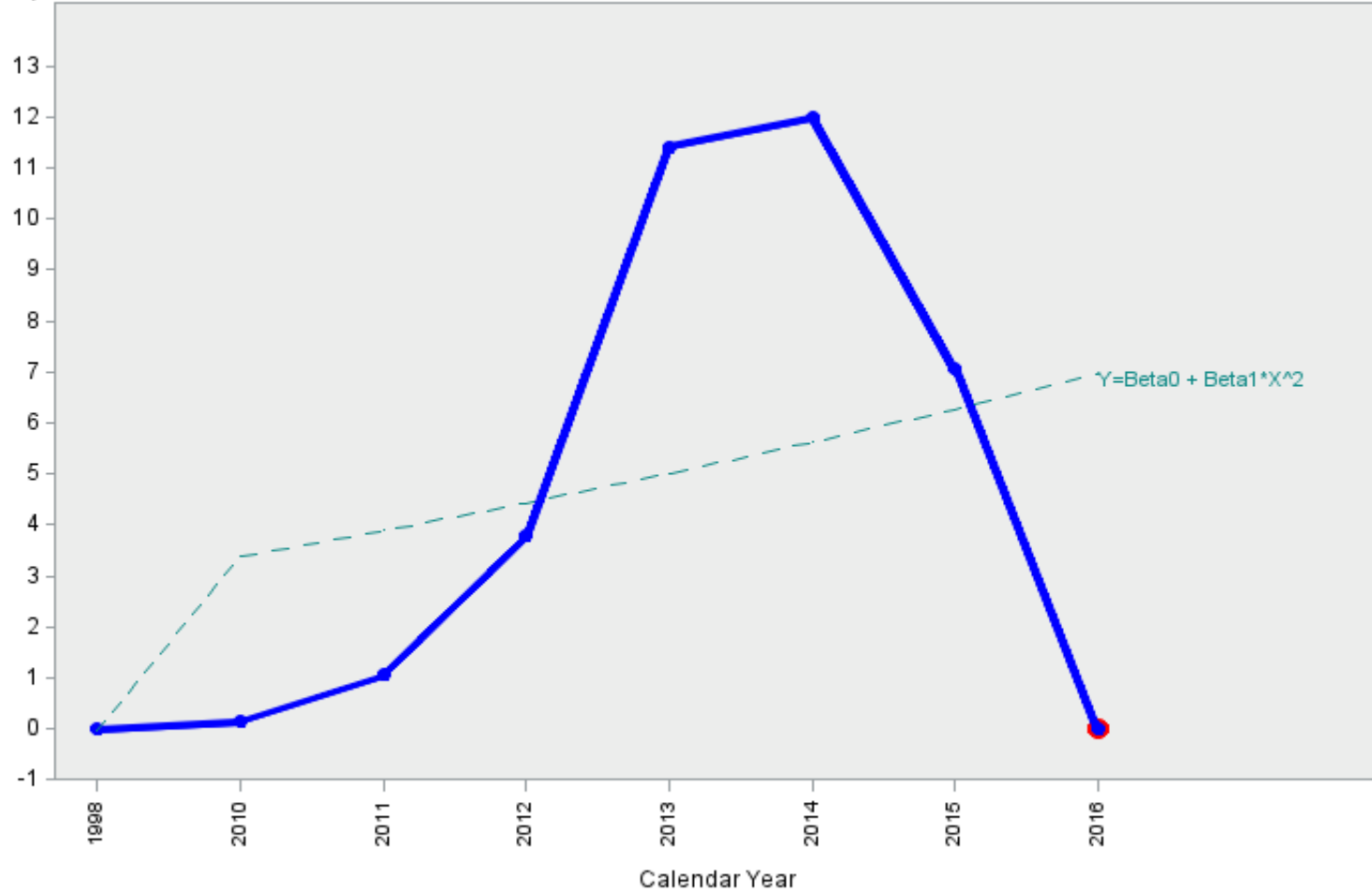
Internal Validity: Trend Analysis

Visit Start Date

Trend Analysis for Dataset: WRHA_PROCURA_VISITS_2010

Date Variable: VISITSTART_DTTM

Frequency(in millions)



Significant outliers
Identical Subsequent frequencies
Suppressed small frequencies (between 0 to 6)



Linkability

SPDS Cluster Name	Cluster Member	Total Number of Records	Number of Linkable Records	% Linkable Records	Number of Linkable Individuals
WRHA_PROCURA_CROSSWALK_2010	WRHAPROCCROSSWALK1015	142,302	120,403	84.61	117,698

PhinType

SCRPHINTYPE	WRHAPROCCROSSWALK1015
0 MH verified against concurrent registries	84.61
4 MCHP db specific ScrPHIN - No MH found	15.39

Referential Integrity

Primary Table	Duplicate	Missing	Total Records	Foreign Table	Orphan Values (Percent)	Orphan Values	Total Records
Primary Key: CLIENT_ID				Foreign Key: CLIENT_ID			
WRHA_PROCURA_CROSSWALK_2010	0	0	142,302	WRHA_PROCURA_CLTSTATUS_2010	0.00%	11	655,227
				WRHA_PROCURA_VISITS_2010	0.00%	0	35,519,970
				WRHA_PROCURA_CLIENTS_2010	0.00%	0	142,302
Primary Key: CLIENT_ID				Foreign Key: CLTVISITOR_ID			
WRHA_PROCURA_CROSSWALK_2010	0	0	904,903	WRHA_PROCURA_CLTDEPT_2010	0.02%	44	270,765