Evaluation of the Australian Bureau of Statistics (ABS) RDF Data Sets

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 ${\bf Abstract.} \ \ {\bf Evaluation} \ \ {\bf of} \ \ {\bf the} \ \ {\bf Australian} \ \ {\bf Bureau} \ \ {\bf of} \ \ {\bf Statistics} \ \ ({\bf ABS}) \ \ {\bf RDF} \ \ \\ {\bf Data} \ \ {\bf Sets} \ \ \\$

Keywords: RDF Validation, RDF Constraints, DDI-RDF Discovery Vocabulary, Disco, RDF Data Cube Vocabulary, Linked Data, Semantic Web

1 Data Model Consistency

		Constraints	
Data Sets	DATA-MODEL-CONSISTENCY-01 DATA-MODEL-CONSISTENCY-02 DATA-MODEL-CONSISTENCY-03 DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05 DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07 DATA-MODEL-CONSISTENCY-08 DATA-MODEL-CONSISTENCY-09 DATA-MODEL-CONSISTENCY-10 (!) DATA-MODEL-CONSISTENCY-11
http://abs.270a.info/spar	$ql \checkmark \checkmark \checkmark $ (0	6) 6997098 (246) 🗸	✓ (8) ✓ ✓ - ✓

Table 1: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
POP_PROJ_REGION_2012_2061	✓	<u> </u>	✓	Х	Х	<u> </u>	Х	✓	✓	_	<u> </u>
$IIP_DSID5671$	✓	/	✓	X	X	✓	X	✓	✓	-	✓
$ABS_CENSUS2011_T32$	✓	/	✓	X	X	✓	X	✓	✓	-	✓
$ABS_CENSUS2011_T32_LGA$	✓	/	✓	/	X	✓	✓	/	✓	-	✓
$ABS_CENSUS2011_T31$	✓	/	✓	X	X	✓	X	✓	✓	-	\checkmark
$ABS_CENSUS2011_T31_LGA$	\checkmark	/	✓	/	X	✓	✓	/	✓	-	\checkmark
$ABS_CENSUS2011_B10$	\checkmark	/	✓	/	X	✓	✓	/	✓	-	\checkmark
$ABS_CENSUS2011_B10_LGA$	\checkmark	/	✓	✓	X	✓	✓	/	✓	-	\checkmark
$ABS_CENSUS2011_B10_SA1_SA$	\checkmark	✓	✓	/	X	✓	\checkmark	/	✓	-	\checkmark
$MERCH_EXP$	\checkmark	✓	✓	X	X	✓	X	\checkmark	✓	-	\checkmark
ABS_NRP9_ASGS	\checkmark	✓	\checkmark	/	X	✓	X	\checkmark	✓	-	\checkmark
$ABS_CENSUS2011_T29$	✓	/	\checkmark	✓	X	✓	X	✓	✓	-	\checkmark
$ABS_CENSUS2011_T29_LGA$	\checkmark	✓	✓	/	X	✓	\checkmark	✓	✓	-	✓
$MERCH_IMP$	✓	✓	✓	X	X	✓	X	✓	✓	-	✓
$ABS_CENSUS2011_B17$	\checkmark	✓	✓	/	X	✓	\checkmark	✓	✓	-	✓
$ABS_CENSUS2011_B17_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B17_SA1_SA	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓

Table 2: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	$DATA-MODEL-CONSISTENCY-\theta 7$	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_B12	<u> </u>	<u> </u>	<u> </u>	_	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>
$ABS_CENSUS2011_B12_LGA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B12_SA1_SA	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T30$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T30_LGA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B41$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B41_LGA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B41_SA1_SA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T12_LGA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T12$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T03$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T03_LGA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B45$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B45_LGA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B45_SA1_SA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B40$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B40_LGA	<u> </u>	✓	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	✓	<u> </u>	-	<u> </u>

Table 3: Evaluation of http://abs.270a.info/sparql

${\bf Constraints}$

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_B40_SA1_SA	<u> </u>	<u> </u>	✓	<u> </u>	X	<u> </u>	✓	✓	<u> </u>	_	<u> </u>
ABS_CENSUS2011_B04	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B04_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B04_SA1_SA	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
LF	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B23$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B23_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B23_SA1_SA$	✓	\checkmark	\checkmark	✓	X	✓	\checkmark	\checkmark	✓	-	✓
$ABS_CENSUS2011_T04$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T04_LGA$	✓	✓	✓	✓	X	✓	✓	\checkmark	\checkmark	-	✓
$ABS_CENSUS2011_B16$	✓	\checkmark	\checkmark	✓	X	✓	\checkmark	✓	✓	-	✓
$ABS_CENSUS2011_B16_LGA$	✓	\checkmark	\checkmark	✓	X	✓	\checkmark	✓	✓	-	✓
ABS_CENSUS2011_B16_SA1_SA	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B11$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B11_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B11_SA1_SA	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_T24	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u>~</u>

Table 4: Evaluation of http://abs.270a.info/sparql

DATA-MODEL-CONSISTENCY-0	DATA-MODEL-CONSISTENCY-0%	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10	DATA-MODEL-CONSISTENCY-11
<u> </u>	✓	✓	✓	Х	<u> </u>	✓	✓	✓	-	✓
✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
✓	✓	\checkmark	✓	X	✓	✓	✓	\checkmark	-	✓
✓	✓	\checkmark	✓	X	✓	✓	✓	\checkmark	-	✓
✓	✓	\checkmark	✓	X	✓	✓	✓	\checkmark	-	✓
✓	✓	\checkmark	✓	X	✓	✓	✓	\checkmark	-	✓
✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
✓	✓	\checkmark	✓	X	✓	✓	✓	\checkmark	-	✓
✓	\checkmark	\checkmark	✓	X	✓	\checkmark	✓	\checkmark	-	✓
✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
✓	\checkmark	✓	✓	X	✓	✓	\checkmark	✓	-	✓
✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
✓	\checkmark	✓	✓	X	✓	✓	\checkmark	✓	-	✓
✓	✓	\checkmark	✓	X	✓	✓	✓	\checkmark	-	✓
✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
<u> </u>	<u> </u>	✓	<u> </u>	X	<u> </u>	✓	<u> </u>	✓	-	<u> </u>
		7 7	7 7 7	<pre></pre>						

Table 5: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_B08_LGA	<u> </u>	✓	✓	✓	X	<u> </u>	<u> </u>	✓	<u> </u>	_	<u> </u>
ABS_CENSUS2011_B08_SA1_SA	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B07$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B07_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B07_SA1_SA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B05$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B05_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B05_SA1_SA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B44$	✓	\checkmark	\checkmark	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B44_LGA$	✓	\checkmark	\checkmark	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B44_SA1_SA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T05$	✓	\checkmark	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T05_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B18_LGA$	✓	✓	\checkmark	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B18$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B18_SA1_SA	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B42	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>

Table 6: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_B42_LGA	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>
$ABS_CENSUS2011_T25_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T25$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B13_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B13$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B13_SA1_SA$	✓	\checkmark	\checkmark	/	X	✓	\checkmark	✓	\checkmark	-	✓
$ABS_CENSUS2011_T14_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T14$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B24_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B24$	✓	✓	✓	✓	X	✓	\checkmark	\checkmark	✓	-	✓
$ABS_CENSUS2011_B24_SA1_SA$	✓	/	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B03_LGA$	✓	/	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B03$	✓	/	✓	/	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B03_SA1_SA	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T08_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T08$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B21_LGA	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>

Table 7: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_B21	✓	✓	✓	/	X	✓	✓	✓	✓	-	<u> </u>
$ABS_CENSUS2011_B21_SA1_SA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B19_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B19$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B19_SA1_SA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B06_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B06$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B06_SA1_SA$	✓	✓	\checkmark	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T10_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T10$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T15_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T15$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$LENDING_INDUSTRY$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T07$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T07_LGA$	✓	\checkmark	✓	/	X	✓	✓	✓	\checkmark	-	✓
$ABS_CENSUS2011_T19_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_T19	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>

Table 8: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_B01_LGA	✓	✓	✓	/	X	✓	✓	✓	✓	-	<u> </u>
$ABS_CENSUS2011_B01$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B01_SA1_SA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B09_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B09$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B09_SA1_SA$	✓	\checkmark	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B46_LGA$	✓	\checkmark	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B46$	✓	✓	\checkmark	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B46_SA1_SA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B36_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B36$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B36_SA1_SA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T13_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T13$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ERP_QUARTERLY$	✓	✓	✓	/	X	✓	✓	✓	\checkmark	-	✓
ABS_NRP9_LGA	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B14_LGA	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>

Table 9: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_B14	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>
ABS_CENSUS2011_B14_SA1_SA	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T20_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T20$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
POP_PROJ_2011	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
HF	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B34_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B34$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B34_SA1_SA$	\checkmark	✓	\checkmark	/	X	✓	\checkmark	✓	\checkmark	-	✓
$LENDING_BY_PURPOSE$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T18$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T18_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B26_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B26$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B26_SA1_SA$	✓	✓	✓	/	X	✓	✓	\checkmark	✓	-	✓
$ABS_CENSUS2011_T11_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_T11	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>

Table 10: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	$DATA\text{-}MODEL\text{-}CONSISTENCY\text{-}\theta7$	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_T22_LGA	<u> </u>	<u> </u>	<u> </u>	_	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>
$ABS_CENSUS2011_T22$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T23_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T23$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B15_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B15$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B15_SA1_SA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T01_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T01$	✓	✓	\checkmark	/	X	✓	\checkmark	✓	✓	-	✓
$ABS_CENSUS2011_T21_LGA$	✓	✓	\checkmark	/	X	✓	\checkmark	✓	✓	-	✓
$ABS_CENSUS2011_T21$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T33_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T33$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B33_LGA$	✓	✓	\checkmark	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B33$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B33_SA1_SA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_T28_LGA	<u> </u>	✓	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>

Table 11: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	$DATA-MODEL-CONSISTENCY-\theta 7$	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_T28	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	✓	_	<u> </u>
$ABS_CENSUS2011_B32_LGA$	✓	✓	/	/	X	✓	✓	✓	✓	_	✓
$ABS_CENSUS2011_B32$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B32_SA1_SA	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B28_LGA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B28$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B28_SA1_SA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B37_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B37$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B37_SA1_SA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
CPI	✓	✓	/	/	X	✓	\checkmark	✓	✓	-	✓
$ABS_CENSUS2011_B43_LGA$	✓	✓	/	/	X	✓	\checkmark	✓	✓	-	✓
$ABS_CENSUS2011_B38_LGA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B38$	✓	\checkmark	/	/	X	✓	\checkmark	✓	✓	-	✓
$ABS_CENSUS2011_B38_SA1_SA$	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B39_LGA$	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B39	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	✓	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>

Table 12: Evaluation of http://abs.270a.info/sparql

${\bf Constraints}$

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_B39_SA1_SA	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Х	<u> </u>	✓	<u> </u>	<u> </u>	_	<u> </u>
$ABS_ERP_COB_STATE$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B25_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B25$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B25_SA1_SA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T26_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T26$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
RT	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B35_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B35$	✓	✓	\checkmark	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B35_SA1_SA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T34_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T34$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B31_LGA$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B31$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_B31_SA1_SA	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
ABS_CENSUS2011_T27_LGA	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>

Table 13: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_T27	✓	✓	✓	/	X	<u> </u>	✓	✓	✓	_	<u> </u>
ERP_COB	✓	✓	✓	/	X	✓	✓	✓	✓	-	✓
BOP	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B30_LGA$	\checkmark	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B30$	\checkmark	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B30_SA1_SA$	\checkmark	✓	✓	/	X	✓	✓	\checkmark	\checkmark	-	✓
QBIS	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_ABORIGINAL_POPPROJ_INDREGION$	\checkmark	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABORIGINAL_POP_PROJ$	\checkmark	\checkmark	✓	✓	X	✓	✓	✓	✓	-	✓
$ABORIGINAL_POP_PROJ_REMOTE$	\checkmark	✓	✓	✓	X	✓	✓	\checkmark	\checkmark	-	✓
PPI_1	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T02_LGA$	✓	/	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_T02$	/	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B29_LGA$	\checkmark	✓	✓	✓	X	/	✓	✓	✓	-	✓
$ABS_CENSUS2011_B29$	\checkmark	✓			•			✓		-	✓
$ABS_CENSUS2011_B29_SA1_SA$	✓	•	-		•				\checkmark		✓
ABS_CENSUS2011_B27_LGA	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>

Table 14: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10	DATA-MODEL-CONSISTENCY-11
ABS_CENSUS2011_B27	✓	✓	/	/	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B27_SA1_SA$	✓	✓	/	✓	X	✓	✓	✓	✓	-	✓
NEWMVSALES	\checkmark	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B02_LGA$	✓	✓	/	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B02$	\checkmark	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_CENSUS2011_B02_SA1_SA$	✓	✓	/	✓	X	✓	✓	✓	✓	-	✓
$ABS_ANNUAL_ERP_ASGS$	✓	✓	/	✓	X	✓	✓	✓	✓	-	✓
$ITPI_IMPORT$	✓	✓	/	✓	X	✓	✓	✓	✓	-	✓
CAPEX	✓	✓	/	✓	X	✓	✓	✓	✓	-	✓
$ITPI_EXPORT$	✓	✓	/	✓	X	✓	✓	✓	✓	-	✓
$PETROLEUM_EXPLORATION$	✓	✓	/	✓	X	✓	✓	✓	✓	-	✓
PPI_SOP	✓	✓	/	✓	X	✓	✓	✓	✓	-	✓
$INTERSTATEMIGRATION_FY$	✓	\checkmark	/	✓	X	✓	✓	✓	\checkmark	-	✓
$INTERSTATEMIGRATION_CY$	✓	✓	/	✓	X	✓	✓	✓	✓	-	✓
$MINING_EXPLORATION$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$LABOUR_PRICE_INDEX$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
ABS_ANNUAL_ERP_LGA	<u> </u>	<u> </u>	<u> </u>	<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>

Table 15: Evaluation of http://abs.270a.info/sparql

Data Sets	DATA-MODEL-CONSISTENCY-01	DATA-MODEL-CONSISTENCY-02	DATA-MODEL-CONSISTENCY-03	DATA-MODEL-CONSISTENCY-04	DATA-MODEL-CONSISTENCY-05	DATA-MODEL-CONSISTENCY-06	DATA-MODEL-CONSISTENCY-07	DATA-MODEL-CONSISTENCY-08	DATA-MODEL-CONSISTENCY-09	DATA-MODEL-CONSISTENCY-10 (!)	DATA-MODEL-CONSISTENCY-11
$LENDING_FINANCE_SUMMARY$	✓	✓	✓	✓	×	✓	✓	✓	✓	-	✓
$NETOVERSEASMIGRATION_FY$	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$NETOVERSEASMIGRATION_CY$	\checkmark	✓	✓	✓	X	✓	✓	\checkmark	\checkmark	-	✓
$ABS_ERP_COB_MAG_SEXRATIO$	✓	✓	✓	\checkmark	X	✓	✓	✓	✓	-	✓
RES_PROP_INDEX	✓	✓	✓	✓	X	✓	✓	✓	✓	-	✓
$ABS_NOM_VISA_CY$	✓	✓	\checkmark	✓	X	✓	✓	✓	✓	-	\checkmark
$ABS_NOM_VISA_FY$	✓	✓	✓	\checkmark	X	✓	✓	\checkmark	✓	-	✓
RES_DWELL	✓	✓	✓	\checkmark	X	✓	✓	\checkmark	✓	-	✓
ALC	✓	✓	✓	\checkmark	3765282	✓	✓	\checkmark	✓	-	✓
$IAS_{-}2$	✓	✓	✓	✓	2547072	✓	✓	✓	✓	-	✓
RES_DWEL_ST	✓	✓	✓	\checkmark	341550	✓	✓	✓	✓	-	✓
IAS_4	✓	✓	✓	\checkmark	266064	✓	✓	✓	✓	-	✓
IAS_5	✓	✓	✓	✓	43374	✓	✓	✓	✓	-	✓
IAS_3	✓	✓	✓	✓	19500	✓	✓	✓	✓	-	✓
$POPULATION_CLOCK_FY$	✓	✓	✓	✓	14256	✓	✓	✓	✓	-	✓

Table 16: Evaluation of http://abs.270a.info/sparql

2 Existential Quantifications

Constraints
EXISTENTIAL-QUANTIFICATIONS-01 EXISTENTIAL-QUANTIFICATIONS-02 EXISTENTIAL-QUANTIFICATIONS-03 EXISTENTIAL-QUANTIFICATIONS-04

Table 17: Evaluation of http://abs.270a.info/sparql

3 Cardinality Restrictions

stas MINIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-02 MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 EXACT-UNQUALIFIED-CARDINALITY-RESTRICTIONS-01 EXACT-QUALIFIED-CARDINALITY-RESTRICTIONS-02				
	Data Sets	MINIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-02	MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01	EXACT-UNQUALIFIED-CARDINALITY-RESTRICTIONS-01 EXACT-QUALIFIED-CARDINALITY-RESTRICTIONS-02

Constraints

Table 18: Evaluation of http://abs.270a.info/sparql

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $POP_PROJ_REGION_2012_2061$ X X $IIP_DSID5671$ $ABS_CENSUS2011_T32$ $ABS_CENSUS2011_T32_LGA$ $ABS_CENSUS2011_T31$ $ABS_CENSUS2011_T31_LGA$ $ABS_CENSUS2011_B10$ $ABS_CENSUS2011_B10_LGA$ $ABS_CENSUS2011_B10_SA1_SA$ $MERCH_EXP$ ABS_NRP9_ASGS $ABS_CENSUS2011_T29$ $ABS_CENSUS2011_T29_LGA$ $MERCH_IMP$ $ABS_CENSUS2011_B17$ $ABS_CENSUS2011_B17_LGA$

Table 19: Evaluation of http://abs.270a.info/sparql

 $ABS_CENSUS2011_B17_SA1_SA$

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_B12$ $ABS_CENSUS2011_B12_LGA$ $ABS_CENSUS2011_B12_SA1_SA$ $ABS_CENSUS2011_T30$ $ABS_CENSUS2011_T30_LGA$ $ABS_CENSUS2011_B41$ $ABS_CENSUS2011_B41_LGA$ $ABS_CENSUS2011_B41_SA1_SA$ $ABS_CENSUS2011_T12_LGA$ $ABS_CENSUS2011_T12$ $ABS_CENSUS2011_T03$ $ABS_CENSUS2011_T03_LGA$ $ABS_CENSUS2011_B45$ $ABS_CENSUS2011_B45_LGA$ $ABS_CENSUS2011_B45_SA1_SA$ $ABS_CENSUS2011_B40$

Table 20: Evaluation of http://abs.270a.info/sparql

 $ABS_CENSUS2011_B40_LGA$

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_B40_SA1_SA$ $ABS_CENSUS2011_B04$ $ABS_CENSUS2011_B04_LGA$ $ABS_CENSUS2011_B04_SA1_SA$ LF $ABS_CENSUS2011_B23$ $ABS_CENSUS2011_B23_LGA$ $ABS_CENSUS2011_B23_SA1_SA$ $ABS_CENSUS2011_T04$ $ABS_CENSUS2011_T04_LGA$ $ABS_CENSUS2011_B16$ $ABS_CENSUS2011_B16_LGA$ $ABS_CENSUS2011_B16_SA1_SA$ $ABS_CENSUS2011_B11$ $ABS_CENSUS2011_B11_LGA$

Table 21: Evaluation of http://abs.270a.info/sparql

 $ABS_CENSUS2011_B11_SA1_SA$

 $ABS_CENSUS2011_T24$

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_T24_LGA$ $ABS_CENSUS2011_T09$ $ABS_CENSUS2011_T09_LGA$ $ABS_CENSUS2011_T06$ $ABS_CENSUS2011_T06_LGA$ $ABS_CENSUS2011_B20$ $ABS_CENSUS2011_B20_LGA$ $ABS_CENSUS2011_B20_SA1_SA$ $ABS_CENSUS2011_B22$ $ABS_CENSUS2011_B22_LGA$ $ABS_CENSUS2011_B22_SA1_SA$ $TOUR_ACCOM$ $ABS_CENSUS2011_T16$ $ABS_CENSUS2011_T16_LGA$ $ABS_CENSUS2011_T17$ $ABS_CENSUS2011_T17_LGA$

Table 22: Evaluation of http://abs.270a.info/sparql

 $ABS_CENSUS2011_B08$

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_B08_LGA$ $ABS_CENSUS2011_B08_SA1_SA$ $ABS_CENSUS2011_B07$ $ABS_CENSUS2011_B07_LGA$ $ABS_CENSUS2011_B07_SA1_SA$ $ABS_CENSUS2011_B05$ $ABS_CENSUS2011_B05_LGA$ $ABS_CENSUS2011_B05_SA1_SA$ $ABS_CENSUS2011_B44$ $ABS_CENSUS2011_B44_LGA$ $ABS_CENSUS2011_B44_SA1_SA$ $ABS_CENSUS2011_T05$ $ABS_CENSUS2011_T05_LGA$ $ABS_CENSUS2011_B18_LGA$ $ABS_CENSUS2011_B18$

Table 23: Evaluation of http://abs.270a.info/sparql

 $ABS_CENSUS2011_B18_SA1_SA$

 $ABS_CENSUS2011_B42$

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_B42_LGA$ $ABS_CENSUS2011_T25_LGA$ $ABS_CENSUS2011_T25$ $ABS_CENSUS2011_B13_LGA$ $ABS_CENSUS2011_B13$ $ABS_CENSUS2011_B13_SA1_SA$ $ABS_CENSUS2011_T14_LGA$ $ABS_CENSUS2011_T14$ $ABS_CENSUS2011_B24_LGA$ $ABS_CENSUS2011_B24$ $ABS_CENSUS2011_B24_SA1_SA$ $ABS_CENSUS2011_B03_LGA$ $ABS_CENSUS2011_B03$ $ABS_CENSUS2011_B03_SA1_SA$ $ABS_CENSUS2011_T08_LGA$ $ABS_CENSUS2011_T08$

Table 24: Evaluation of http://abs.270a.info/sparql

 $ABS_CENSUS2011_B21_LGA$

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_B21$ $ABS_CENSUS2011_B21_SA1_SA$ $ABS_CENSUS2011_B19_LGA$ $ABS_CENSUS2011_B19$ $ABS_CENSUS2011_B19_SA1_SA$ $ABS_CENSUS2011_B06_LGA$ $ABS_CENSUS2011_B06$ $ABS_CENSUS2011_B06_SA1_SA$ $ABS_CENSUS2011_T10_LGA$ $ABS_CENSUS2011_T10$ $ABS_CENSUS2011_T15_LGA$ $ABS_CENSUS2011_T15$ $LENDING_INDUSTRY$ $ABS_CENSUS2011_T07$ $ABS_CENSUS2011_T07_LGA$

Table 25: Evaluation of http://abs.270a.info/sparql

ABS_CENSUS2011_T19_LGA ABS_CENSUS2011_T19

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_B01_LGA$ $ABS_CENSUS2011_B01$ $ABS_CENSUS2011_B01_SA1_SA$ $ABS_CENSUS2011_B09_LGA$ $ABS_CENSUS2011_B09$ $ABS_CENSUS2011_B09_SA1_SA$ $ABS_CENSUS2011_B46_LGA$ $ABS_CENSUS2011_B46$ $ABS_CENSUS2011_B46_SA1_SA$ $ABS_CENSUS2011_B36_LGA$ $ABS_CENSUS2011_B36$ $ABS_CENSUS2011_B36_SA1_SA$ $ABS_CENSUS2011_T13_LGA$ $ABS_CENSUS2011_T13$ $ERP_QUARTERLY$

Table 26: Evaluation of http://abs.270a.info/sparql

 ABS_NRP9_LGA

 $ABS_CENSUS2011_B14_LGA$

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_B14$ $ABS_CENSUS2011_B14_SA1_SA$ $ABS_CENSUS2011_T20_LGA$ $ABS_CENSUS2011_T20$ POP_PROJ_2011 HF $ABS_CENSUS2011_B34_LGA$ $ABS_CENSUS2011_B34$ $ABS_CENSUS2011_B34_SA1_SA$ $LENDING_BY_PURPOSE$ $ABS_CENSUS2011_T18$ $ABS_CENSUS2011_T18_LGA$ $ABS_CENSUS2011_B26_LGA$ $ABS_CENSUS2011_B26$ $ABS_CENSUS2011_B26_SA1_SA$ $ABS_CENSUS2011_T11_LGA$

Table 27: Evaluation of http://abs.270a.info/sparql

 $ABS_CENSUS2011_T11$

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_T22_LGA$ $ABS_CENSUS2011_T22$ $ABS_CENSUS2011_T23_LGA$ $ABS_CENSUS2011_T23$ $ABS_CENSUS2011_B15_LGA$ $ABS_CENSUS2011_B15$ $ABS_CENSUS2011_B15_SA1_SA$ $ABS_CENSUS2011_T01_LGA$ $ABS_CENSUS2011_T01$ $ABS_CENSUS2011_T21_LGA$ $ABS_CENSUS2011_T21$ $ABS_CENSUS2011_T33_LGA$ $ABS_CENSUS2011_T33$ $ABS_CENSUS2011_B33_LGA$ $ABS_CENSUS2011_B33$ $ABS_CENSUS2011_B33_SA1_SA$

Table 28: Evaluation of http://abs.270a.info/sparql

 $ABS_CENSUS2011_T28_LGA$

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_T28$ $ABS_CENSUS2011_B32_LGA$ $ABS_CENSUS2011_B32$ $ABS_CENSUS2011_B32_SA1_SA$ $ABS_CENSUS2011_B28_LGA$ $ABS_CENSUS2011_B28$ $ABS_CENSUS2011_B28_SA1_SA$ $ABS_CENSUS2011_B37_LGA$ $ABS_CENSUS2011_B37$ $ABS_CENSUS2011_B37_SA1_SA$ CPI $ABS_CENSUS2011_B43_LGA$ $ABS_CENSUS2011_B38_LGA$ $ABS_CENSUS2011_B38$ $ABS_CENSUS2011_B38_SA1_SA$

Table 29: Evaluation of http://abs.270a.info/sparql

ABS_CENSUS2011_B39_LGA ABS_CENSUS2011_B39

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_B39_SA1_SA$ $ABS_ERP_COB_STATE$ $ABS_CENSUS2011_B25_LGA$ $ABS_CENSUS2011_B25$ $ABS_CENSUS2011_B25_SA1_SA$ $ABS_CENSUS2011_T26_LGA$ $ABS_CENSUS2011_T26$ RT $ABS_CENSUS2011_B35_LGA$ $ABS_CENSUS2011_B35$ $ABS_CENSUS2011_B35_SA1_SA$ $ABS_CENSUS2011_T34_LGA$ $ABS_CENSUS2011_T34$ $ABS_CENSUS2011_B31_LGA$ $ABS_CENSUS2011_B31$

Table 30: Evaluation of http://abs.270a.info/sparql

ABS_CENSUS2011_B31_SA1_SA ABS_CENSUS2011_T27_LGA

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $ABS_CENSUS2011_T27$ ERP_COB BOP $ABS_CENSUS2011_B30_LGA$ ABS_CENSUS2011_B30 $ABS_CENSUS2011_B30_SA1_SA$ QBIS $ABS_ABORIGINAL_POPPROJ_INDREGION$ $ABORIGINAL_POP_PROJ$ $ABORIGINAL_POP_PROJ_REMOTE$ PPI_1 $ABS_CENSUS2011_T02_LGA$ $ABS_CENSUS2011_T02$ $ABS_CENSUS2011_B29_LGA$ $ABS_CENSUS2011_B29$

Table 31: Evaluation of http://abs.270a.info/sparql

ABS_CENSUS2011_B29_SA1_SA ABS_CENSUS2011_B27_LGA

Constraints MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** ABS_CENSUS2011_B27 $ABS_CENSUS2011_B27_SA1_SA$ NEWMVSALES $ABS_CENSUS2011_B02_LGA$ $ABS_CENSUS2011_B02$ $ABS_CENSUS2011_B02_SA1_SA$ $ABS_ANNUAL_ERP_ASGS$ $ITPI_IMPORT$ CAPEX $ITPI_EXPORT$ $PETROLEUM_EXPLORATION$ PPI_SOP $INTERSTATEMIGRATION_FY$ $INTERSTATEMIGRATION_CY$ $MINING_EXPLORATION$

Table 32: Evaluation of http://abs.270a.info/sparql

LABOUR_PRICE_INDEX
ABS_ANNUAL_ERP_LGA

${\bf Constraints}$ | MAXIMUM-QUALIFIED-CARDINALITY-RESTRICTIONS-01 **Data Sets** $LENDING_FINANCE_SUMMARY$ $NETOVERSEASMIGRATION_FY$ $NETOVERSEASMIGRATION_CY$ $ABS_ERP_COB_MAG_SEXRATIO$ RES_PROP_INDEX $ABS_NOM_VISA_CY$ $ABS_NOM_VISA_FY$ RES_DWELL ALC $IAS_{-}2$ RES_DWEL_ST IAS_{-4} IAS_5 IAS_3 $POPULATION_CLOCK_FY$

Table 33: Evaluation of http://abs.270a.info/sparql

4 Structure

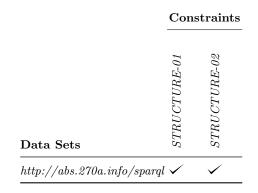


Table 34: Evaluation of http://abs.270a.info/sparql

5 Further Constraints