

Table 1: The table shows the median of test generation timing.

Schema	RAGTAG	PostgreSQL			RAGTAG	SQLite		
		R ⁺	AVM-D	AVM-R		R ⁺	AVM-D	AVM-R
ArtistTerm	2.57	***43.90	***2.66	***3.13	0.33	***42.53	0.54	*0.89
BookTown	8.70	***78.73	***11.62	***10.87	2.01	***77.34	***5.45	***4.88
BrowserCookies	3.16	***68.65	***5.81	***16.77	0.42	***70.85	***3.05	***15.34
Cloc	1.13	***13.48	***1.19	***1.26	0.30	***12.58	0.43	0.40
DellStore	4.16	***143.52	***4.77	***4.92	0.48	***139.02	***1.14	***1.26
Flights	2.48	***106.58	***5.56	***24.29	0.45	***114.70	***3.73	***23.77
Inventory	0.68	***5.39	0.78	0.75	0.28	***5.22	0.44	0.35
iTrust	46.73	***4300.60	***55.48	***84.49	4.60	***4257.82	***13.99	***43.28
JWhoisServer	3.94	***240.70	***4.86	***5.16	0.54	***247.67	***1.54	***1.79
MozillaExtensions	6.33	***272.98	***7.30	***7.53	0.54	***269.52	***1.55	***1.63
NistXTS749	1.54	***20.36	***1.75	***1.76	0.33	***21.01	0.69	0.53
Products	3.14	***70.05	***7.28	***6.57	1.30	***56.44	***5.85	***5.00
RiskIt	11.72	***408.31	***12.52	***14.24	0.63	***421.09	***1.95	***3.52
StudentResidence	1.36	***21.50	***1.50	***1.71	0.38	***21.30	0.63	0.73
UnixUsage	10.68	***80.70	***11.50	***12.89	0.52	***81.54	***1.67	***2.66

Table 2: The table shows the median of coverage.

Schema	RAGTAG	PostgreSQL			RAGTAG	SQLite		
		R ⁺	AVM-D	AVM-R		R ⁺	AVM-D	AVM-R
ArtistTerm	100.0	***60.0	100.0	100.0	100.0	***62.8	100.0	100.0
BookTown	99.3	***92.2	99.3	99.3	99.3	***92.3	99.3	99.3
BrowserCookies	100.0	***55.6	100.0	***98.6	100.0	***56.3	100.0	***98.6
Cloc	100.0	***92.5	100.0	100.0	100.0	***92.5	100.0	100.0
DellStore	100.0	***93.2	100.0	100.0	100.0	***93.2	100.0	100.0
Flights	100.0	***56.8	100.0	***97.0	100.0	***57.3	100.0	***96.8
Inventory	100.0	***93.8	100.0	100.0	100.0	***94.4	100.0	100.0
iTrust	100.0	***91.6	100.0	100.0	100.0	***92.0	100.0	100.0
JWhoisServer	100.0	***86.8	100.0	100.0	100.0	***87.3	100.0	100.0
MozillaExtensions	100.0	***87.6	100.0	100.0	100.0	***87.8	100.0	100.0
NistXTS749	100.0	***91.9	100.0	100.0	100.0	***91.4	100.0	100.0
Products	97.9	***73.4	97.9	97.9	98.1	***79.2	98.1	98.1
RiskIt	100.0	***68.6	100.0	100.0	100.0	***70.0	100.0	100.0
StudentResidence	100.0	***60.0	100.0	100.0	100.0	***64.7	100.0	100.0
UnixUsage	100.0	***50.3	100.0	100.0	100.0	***52.4	100.0	100.0

Table 3: The table shows the median of Mutattion Score.

Schema	RAGTAG	PostgreSQL			RAGTAG	SQLite		
		R ⁺	AVM-D	AVM-R		R ⁺	AVM-D	AVM-R
ArtistTerm	100.0	*** 80.0	100.0	100.0	100.0	*** 79.0	100.0	100.0
BookTown	99.5	*** 90.0	*** 97.6	*99.5	99.0	*** 86.5	*** 85.5	99.0
BrowserCookies	97.4	*** 55.1	*** 92.3	** 96.2	96.6	*** 47.2	*** 86.5	96.6
Cloc	100.0	*** 90.0	100.0	100.0	100.0	*** 85.0	100.0	100.0
DellStore	100.0	*** 89.7	100.0	100.0	100.0	*** 88.5	100.0	100.0
Flights	100.0	*** 38.1	*** 95.2	*** 97.6	100.0	*** 40.2	*** 84.3	*** 98.0
Inventory	100.0	*** 82.3	*** 88.2	100.0	100.0	*** 81.2	*** 75.0	100.0
iTrust	99.7	*** 90.1	*** 95.8	*** 99.5	99.2	*** 87.6	*** 83.6	99.2
JWhoisServer	99.4	*** 88.5	*** 78.7	99.7	99.5	*** 88.6	*** 76.6	99.5
MozillaExtensions	100.0	*** 55.8	*** 82.1	*100.0	99.7	*** 54.3	*** 71.3	*99.7
NistXTS749	95.0	*** 90.0	95.0	95.0	94.0	*** 80.0	92.0	*** <i>96.0</i>
Products	87.2	*** 69.2	** 87.2	87.2	87.8	*** 73.5	** 87.8	87.8
RiskIt	100.0	*** 68.0	*** 99.5	100.0	99.5	*** 68.0	*** 89.3	*** <i>100.0</i>
StudentResidence	97.2	*** 86.1	*** 94.4	* 97.2	94.9	*** 71.8	*** 87.2	*97.4
UnixUsage	100.0	*** 51.8	100.0	100.0	100.0	*** 58.9	*** 98.2	100.0

Table 4: The table shows the median of Mutattion Score for mutation operators.

Operator	RAGTAG	PostgreSQL			RAGTAG	SQLite		
		R ⁺	AVM-D	AVM-R		R ⁺	AVM-D	AVM-R
CInListElementR	100.0	* 100.0	100.0	100.0	100.0	* 100.0	100.0	100.0
CR	95.24	*** 92.86	95.24	95.24	95.24	95.24	95.24	95.24
CRelOpE	83.33	*** 80.835	*** 81.67	83.33	81.67	*83.33	** 81.67	*83.33
FKColumnPairE	100.0	*** 84.75	100.0	100.0	100.0	*** 84.62	100.0	100.0
FKColumnPairR	100.0	*** 88.46	100.0	100.0	100.0	*** 88.46	100.0	100.0
NNA	100.0	*** 97.12	100.0	100.0	100.0	*** 97.24	100.0	100.0
NNR	100.0	*** 98.18	100.0	100.0	100.0	*** 98.27	100.0	100.0
PKColumnA	98.94	*** 92.57	*** 78.56	*** 98.51	96.26	*** 81.28	*** 1.87	** <i>97.06</i>
PKColumnE	100.0	*** 94.63	*** 99.74	100.0	99.49	*** 86.45	*** 98.98	99.49
PKColumnR	100.0	*** 84.62	100.0	100.0	100.0	*** 78.95	100.0	100.0
UColumnA	100.0	*** 51.49	*** 89.88	*** 99.85	100.0	*** 52.455	*** 89.88	*** 99.85
UColumnE	100.0	*** 23.89	* <i>100.0</i>	*100.0	100.0	*** 24.775	** <i>100.0</i>	100.0
UColumnR	100.0	*** 33.33	100.0	*** 91.67	100.0	*** 33.33	100.0	*** 91.67