

cases	doc_1		doc_2		decision	id
					DUPLICATES	314
	authors	<ul style="list-style-type: none">Xi Victoria Lin and Richard Socher and Caiming Xiong	authors	<ul style="list-style-type: none">Xi Victoria LinR. SocherCaiming Xiong		
	title	Bridging Textual and Tabular Data for Cross-Domain Text-to-SQL Semantic Parsing	title	Bridging Textual and Tabular Data for Cross-Domain Text-to-SQL Semantic Parsing		
	publication_date	2020-12-31 00:00:00	publication_date	2020-11-01 00:00:00		
	source	SupportedSources.INTERNET_ARCHIVE	source	SupportedSources.SEMANTIC_SCHOLAR		
	journal		journal			
	volume		volume			
	doi		doi	10.18653/v1/2020.findings-emnlp.438		
	urls	<ul style="list-style-type: none">https://web.archive.org/web/20210102003238/https://arxiv.org/pdf/2012.12627v2.pdf	urls	<ul style="list-style-type: none">https://www.semanticscholar.org/paper/232b40980acb55afa89ec50dd9806a5e551f699b		
	id	id1624988860925544678	id	id264762718511652146		
	abstract	We present BRIDGE, a powerful sequential architecture for modeling dependencies between natural language questions and relational databases in cross-DB semantic parsing. BRIDGE represents the question and DB schema in a tagged sequence where a subset of the fields are augmented with cell values mentioned in the question. The hybrid sequence is encoded by BERT with minimal subsequent layers and the text-DB contextualization is realized via the fine-tuned deep attention in BERT. Combined with a pointer-generator decoder with schema-consistency driven search space pruning, BRIDGE attained state-of-the-art performance on popular cross-DB text-to-SQL benchmarks, Spider (71.1% dev, 67.5% test with ensemble model) and WikiSQL (92.6% dev, 91.9% test). Our analysis shows that BRIDGE effectively captures the desired cross-modal dependencies and has the potential to generalize to more text-DB related tasks. Our implementation is available at .	abstract	We present BRIDGE, a powerful sequential architecture for modeling dependencies between natural language questions and relational databases in cross-DB semantic parsing. BRIDGE represents the question and DB schema in a tagged sequence where a subset of the fields are augmented with cell values mentioned in the question. The hybrid sequence is encoded by BERT with minimal subsequent layers and the text-DB contextualization is realized via the fine-tuned deep attention in BERT. Combined with a pointer-generator decoder with schema-consistency driven search space pruning, BRIDGE attained state-of-the-art performance on the well-studied Spider benchmark (65.5% dev, 59.2% test), despite being much simpler than most recently proposed models for this task. Our analysis shows that BRIDGE effectively captures the desired cross-modal dependencies and has the potential to generalize to more text-DB related tasks. Our model implementation is available at https://github.com/ salesforce/TabularSemanticParsing.		
	versions		versions			