Dataset character

Conv: Conversational

Paper	NLQ	Table	SQL	Feature	Knowledge Source
WTQ (2015)	Single	Single		 20% questions are not answerable by pure SQL; All/ Simple/ Complex; 2,108 semi-structured Wikipedia tables, 22,033 examples; 	Wikipedia tables
WikiSQL (2017)	Single	Single		 Simple QA (cell filtering and aggregation, table no foreign key); 24,241 tables, 80,654 examples; 	24,241 HTML tables from Wikipedia
SQA (2017)	Conv	Single		 Annotators decompose questions originally from WTQ to a sequence of conversational questions; 982 tables, 6,066 examples; 	WTQ
Spider (2018)	Single	Multi	~	8,659 train and 1,034 dev example, covers 200 complex databases across 138 domains;	Scholar, WikiSQL, GeoQuery, etc.
TabFact (2020)	Claim	Single		 16k tables as the evidence for 118k human-annotated natural language statements (entailed/ refuted); All/ Simple/ Complex; 	Wikipedia
SQUALL (2020)	Single	Single	~	 Enriches WTQ with manually created SQL equivalents plus alignments between SQL and NLQ fragments; 11,468 {table, Q&A, logical form, alignment}; 	WTQ
Spider-Syn (2021)	Single	Multi	V	 Modify NL questions in Spider using synonym substitution; 7000 train and 1034 dev samples; 	Spider
Spider-DK (2021)	Single	Multi	▽	 5 types of domain knowledge; 535 NL-SQL pairs from Spider dev, where 265 pairs are modified to incorporate the domain knowledge; 	Spider
FeTaQA (2021)	Single	Single		 10K {table, question, free-form answer, supporting table cells} pairs; Long-form answers, require complex reasoning and integration info; 	Wikipedia
SEM-TAB- FACTS (2021)	Single	Single		 981 manually generated tables and 1980 auto-generated tables, over 180K statements and over 16M evidence annotations; Supported/ Refuted/ Unknown; 	IBM Watson Discovery
FinQA 🤏 (2021)	Single	Single		• 8,281 {Q&A pairs with program, supporting fact} (table<20 rows);	FinTabNet

TAT-QA 💸 (2021)	Single	Single		 16,552 samples with hybrid context of both tables and textual content from real-world financial reports; Over 40% require numerical reasoning skills (+, -, *, /, count, comparison, and compositional operations); Table: 3-30 rows and 3-6 columns 	500 financial reports from https://www.annu alreports.com/
RobuT (2023)	Single	Single		 143,477 human-annotated perturbed examples; 10 perturbation types on four different levels (i.e., table header, table content, natural language question, and mix); 	WTQ, WIKISQL-WEAK, SQA
BIRD (2023)	Single	Multi	▼	 Large-scale databases Dirty database contents, external knowledge between NL questions and database contents, and SQL efficiency Large number of domains 	32% from Kaggle, 48% from CTU Prague Relational Learning Repo, 20% built following DuSQL