

Text-to-SQL Semantic Parsing

Group 4
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Problem

Definition of problem

Given a natural language Q and the schema $S = \langle \mathcal{T}, \mathcal{C} \rangle$ for a relational database, the parser needs to generate the corresponding SQL query Y . The schema consists of tables $\mathcal{T} = \{t_1, \dots, t_N\}$ and fields $\mathcal{C} = \{c_{11}, \dots, c_{1|\mathcal{T}_1|}, \dots, c_{n1}, \dots, c_{N|\mathcal{T}_N|}\}$. Each table t_i and each field c_{ij} has a textual name. Some fields are primary keys, used for uniquely indexing each data record, and some are foreign keys, used to reference a primary key in a different table. In addition, each field has a data type, $\tau \in \{number, text, time, boolean, etc\}$

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Tables

Date	Instructor	Title
WS 04/05	Sascha Frank	First steps with \LaTeX
SS 05	Sascha Frank	\LaTeX Course serial

Tables with pause

A B C

Tables with pause

A	B	C
1	2	3

Tables with pause

A	B	C
1	2	3

A	B	C
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