RDBMS Schema metamodel

Inheritance

```
                         ┌──────────────┐
                         │   Element    │
                         ├──────────────┤
                         │              │
                         └──────△───────┘
                   ┌────────────┴────────────┐
       ┌───────────────────┐        ┌──────────────────┐
       │ ForeignKeyColumn  │        │  NamedElement    │
       ├───────────────────┤        ├──────────────────┤
       │                   │        │ + name : String  │
       └───────────────────┘        └────────△─────────┘
```

┌──────────┬──────────┬──────────┬──────────┬──────────────┬──────────────┐

Schema	Table	Column	DataType	PrimaryKey	ForeignKey
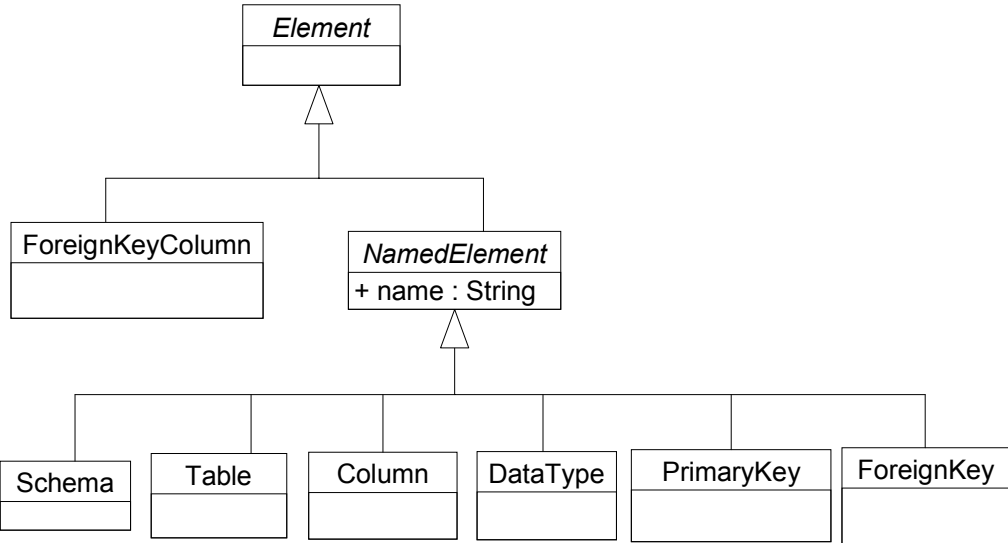
rdbms metamodel   Structure

Schema

+schema 1   1 +schema

+schema

1..* +tables

Table

NOT(primaryKey.table = table)

+table   +foreignKeys   ForeignKey

1   0..*

1   1 +table

+table

0..*   1

+primaryKeyOfForeignKeys

+key

1 +primaryKey

PrimaryKey

1 +primaryKey

0..1
+primaryKey

columns.table = table

+keyColumns

{ordered}

+dataTypes
0..*

+columns
1..*

+columns
{ordered}
1..*

+ownOfKeyColumns
0..*

1..*

DataType   1 +dataType   Column

+columns   0..*

ForeignKeyColumn

1
+ownColumn

+foreignColumn
1

0..*
+foreignOfKeyColumns

(ownColumn.table = key.table) AND
(foreignColumn.primaryKey = key.primaryKey)