

Rel Ruby (+7NF)

moriq Ruby@関西

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SQL

- *なんでこんな言語なんだ？*
- **SELECT * FROM r**
- **SELECT * FROM r WHERE c**
- **SELECT name FROM r WHERE c**
- **SELECT ... FROM (SELECT name FROM r WHERE c) JOIN s**

Tutorial D

- **そこでTutorial Dですよ**
- **r**
- **r[c]**
- **r[c]{name}**
- **r[c]{name} JOIN s**

D

- **data language specification**
- **http://en.wikipedia.org/wiki/Tutorial_D**

Rel

- **Tutorial DのJava実装**
- **An Implementation of Date and Darwen's "Tutorial D"**
- **<http://dbappbuilder.sourceforge.net/Rel.html>**

Rel Ruby

- **RelをRubyで実装してみた**
- **<http://dev.moriq.com/svn/rails/trunk/rel-ruby/>**

O/R mapper

- **Object Model**
- **Relational Model**
- **なんでマッピングなんだ？**

Relation Object

- **Relation.new(heading)**
- **r = Relation.new(id: Integer, name: String)**

Tuple Object

- **Tuple.new(attributes)**
- **r << Tuple.new(id: 1, name: 'matz')**
- **r << {id: 1, name: 'matz'}**

Relational Ruby

- **RubyでRelational Modelを表現**
- **r**
- **r.select { |t| t.name == 'matz' }**
- **r['name']**
- **r['name'].join(s)**

Ruby(AR) vs DBMS

- **validation**
- **reference constraint**
- **inheritance**
- **locking**
- **logging**
- **index**

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- **App + (RelEngine + Storage)**
- **(App + RelEngine) + Storage**

Thank you