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You know what we probably need? Another Scala DSL abstracting over Hadoop.

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7:07 PM - 11 Apr 12 via Twitter for Mac · Details







* Revolute

Alex Boisvert

Work @

SQL-like query language

(for Big Data)

(Scala) embedded DSL

Inspired by

- * Apache Hive
- * Scala Query
- * Cascalog

Familiar + Type-safe + Expressive + Interactive

"Thin Layer" on top of Cascading.

A Taste of Revolute -

```
object Persons
  extends Table[(String, Int, String)]
{
  def name = column[String]("name")
  def age = column[Int]("age")
  def gender = column[String]("gender")
  def * = name ~ age ~ gender
}
```

```
-- SQL
select p.* from Persons
/* Revolute */
for { p ← Persons } yield p.*
```

```
/* output multiple fields */
for { p ← Persons }
  yield p.name ~ p.age
```

```
/* filtering */
for {
   p ← Persons if (p.age > 21)
} yield p.name ~ p.age
```

```
/* combinators for complex expressions */
for {
  p ← Persons
  if (p.age > 21) && (gender === "m")
} yield p.name ~ p.age
```

```
// context provides table bindings for taps/sinks
//
// e.g. Traffic table → HDFS or S3
Parter table → MySQL
       Summary table → Google Spreadsheet
flow(context) {
  val myQuery = for { ... } yield ...
  insert {
   for {
      (partner, segment, views) <- myQuery
      if segment in Set("a", "b", "c")
   } yield partner ~ views
 } into Summary
```

- * Query
 - one or more table joined together ("join")
 - field selection and function application ("select")
 - one or more filters ("where")
 - grouping and sorting ("group by", "sort by")
 - aggregation based on groupings ("count()", ...)
- * Nest & chain queries
- * 1-1, 1-0/1, 1-N mappings
- * Null, Option & PartialFunction filtering
- ... and (eventually) more awesome.

UNDER CONSTRUCTION



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