Reverse-engineers a database to Grails domain classes.

Database Reverse Engineering Plugin - Reference Documentation

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Version: 3.0.0

Table of Contents

- 1 Introduction to the DB Reverse Engineering Plugin
- 2 Getting Started
- 3 Configuration
- 4 General Usage
- **5** Tutorial

1 Introduction to the DB Reverse Engineering Plugin

The DB Reverse Engineering plugin reads database table information using JDBC and uses the schema data to create domain classes. This is a complex problem and the plugin is unlikely to get things 100% correct. But it should save you a lot of work and hopefully not require too much tweaking after the domain classes are generated.

The 3.x.x versions of the plugin work with Hibernate 3. If you're using Hibernate 4, use the latest version 4.x.x of the plugin.

The plugin uses the <u>Hibernate Tools</u> library, with custom code to generate GORM domain classes instead of Java POJOs.

2 Getting Started

The first step is installing the plugin. Add a plugin dependency in BuildConfig.groovy:

```
plugins {
runtime ':db-reverse-engineer:3.0.0'
}
```

There are no required initialization steps but there are some configuration options described in the <u>next</u> <u>section</u>.

3 Configuration

There are several configuration options for the plugin.

Core properties

These configuration options are the one you're most likely need to set. They include the package name of the generated files (grails.plugin.reveng.packageName), and information about which side of a many-to-many is the 'belongsTo' side (grails.plugin.reveng.manyToManyBelongsTos).

Property	Default	Meaning
grails.plugin.reveng.packageName	application name	package name for the generated domain classes
grails.plugin.reveng.manyToManyBelongsTos	none	a Map of join table name -> belongsTo table name to specify which of the two domain classes is the 'belongsTo' side of the relationship

Inclusion/exclusion properties

These configuration options let you define which tables and columns to include in processing. By default all tables and columns are processed.

If you specify tables to include (g.p.r.includeTables, g.p.r.includeTableRegexes, and/or g.p.r.includeTableAntPatterns) then only those will be used. If you specify any of these options then all of the table exclusion options are ignored; this is useful when you have already run the reverse engineer script but want to re-run it for only a subset of tables.

If you specify tables to exclude (g.p.r.excludeTables, g.p.r.excludeTableRegexes, and/or g.p.r.excludeTableAntPatterns) then any matching tables will be ignored.

You can also specify columns to exclude (g.p.r.excludeColumns, g.p.r.excludeColumnRegexes, and/or g.p.r.excludeColumnAntPatterns) and any matching columns will be ignored. These options can be used with table include rules or table exclude rules - any tables that are included or not excluded will have their columns included or excluded based on these rules.

One addition property, grails.plugin.reveng.manyToManyTables, doesn't affect whether a table is processed, but rather determines whether a table that won't look like a many-to-many table to the Hibernate Tools library (because it has more than two columns) is considered a many-to-many table.

Property	Default	Meaning
grails.plugin.reveng.includeTables	none	a List of table names to include for processing
grails.plugin.reveng.includeTableRegexes	none	a List of table name regex patterns to include for processing
grails.plugin.reveng.includeTableAntPatterns	none	a List of table name Ant-style patterns to include for processing
grails.plugin.reveng.excludeTables	none	a List of table names to exclude from processing
grails.plugin.reveng.excludeTableRegexes	none	a List of table name regex patterns to exclude from processing
grails.plugin.reveng.excludeTableAntPatterns	none	a List of table name Ant-style patterns to exclude from processing
grails.plugin.reveng.excludeColumns	none	a Map of table name -> List of column names to ignore
grails.plugin.reveng.excludeColumnRegexes	none	a Map of table name -> List of column name regex patterns to ignore
grails.plugin.reveng.excludeColumnAntPatterns	none	a Map of table name -> List of column name Ant-style patterns to ignore
grails.plugin.reveng.manyToManyTables	none	a List of table names that should be considered many-to-many join tables; needed for join tables that have more columns than the two foreign keys

Other properties

These remaining configuration options allow you to specify the folder where the domain classes are generated (g.p.r.destDir), whether to overwrite existing classes (g.p.r.overwriteExisting) and non-standard 'version' column names (g.p.r.versionColumns).

There are also properties to set the default schema name (g.p.r.defaultSchema) and catalog (g.p.r.defaultCatalog) name which are useful when working with Oracle.

Property	Default	Meaning
grails.plugin.reveng.destDir	'grails-app/domain'	destination folder for the generated classes, relative to the project root
grails.plugin.reveng.versionColumns	none	a Map of table name -> version column name, for tables with an optimistic locking column that's not named 'version'
grails.plugin.reveng.overwriteExisting	true	whether to overwrite existing domain classes
grails.plugin.reveng.defaultSchema	none	the default database schema name
grails.plugin.reveng.defaultCatalog	none	the default database catalog name

4 General Usage

It's most convenient when creating an application to also create the database at the same time. When creating a "greenfield" application like this you can let Hibernate create your tables for you (e.g. using a dbCreate value of create-drop or update). But often the database already exists, and creating GORM domain classes from them can be a tedious process.

This plugin will save you a lot of time by using the JDBC metadata API to inspect your database schema and create domain classes for you, using some assumptions and augmented by configuration options that you set.

The core of the plugin is the <u>db-reverse-engineer</u> script. There are too many configuration options to support specifying them when running the script, so it takes no arguments and uses configuration options set in grails-app/conf/Config.groovy. These are described in the configuration.

Environments

You can choose which database to read from by specifying the environment when running the script (like any Grails script). For example to use the development environment settings, just run

```
grails db-reverse-engineer
```

To use the production environment settings, run

```
grails prod db-reverse-engineer
```

And if you want to use a custom 'staging' environment configured in DataSource.groovy, run

```
grails -Dgrails.env=staging db-reverse-engineer
```

Re-running the reverse engineering script

If you have new or changed tables you can re-run the <u>db-reverse-engineer</u> script to pick up changes and additions. This is not an incremental process though, so existing classes will be overwritten and you will lose any changes you made since the last run. But it's simple to define which tables to include or exclude.

```
As described in the configuration section, you can use a combination of the grails.plugin.reveng.includeTables, grails.plugin.reveng.includeTableRegexes, grails.plugin.reveng.includeTableAntPatterns, grails.plugin.reveng.excludeTables, grails.plugin.reveng.excludeTableRegexes, and grails.plugin.reveng.excludeTableAntPatterns properties to define which tables to include or exclude.
```

By default all tables are included, and the plugin assumes you're more likely to exclude than include. So you can specify one or more table names to explicitly exclude using grails.plugin.reveng.excludeTables, one or more regex patterns for exclusion using grails.plugin.reveng.excludeTableRegexes, and one or more Ant-style patterns for exclusion using grails.plugin.reveng.excludeTableAntPatterns.

For example, using this configuration

```
grails.plugin.reveng.excludeTables = ['clickstream', 'error_log']
grails.plugin.reveng.excludeTableRegexes = ['temp.+']
grails.plugin.reveng.excludeTableAntPatterns = ['audit_*']
```

you would process all tables except clickstream and error_log, and any tables that start with 'temp' (e.g. tempPerson, tempOrganization, etc.) and any tables that start with 'audit_' (e.g. 'audit_orders', 'audit_order_items', etc.)

If you only want to include one or a few tables, it's more convenient to specify inclusion rules rather than exclusion rules, so you use grails.plugin.reveng.includeTables, grails.plugin.reveng.includeTableRegexes, and grails.plugin.reveng.includeTableAntPatterns for that. If any of these properties are set, the table exclusion rules are ignored.

For example, using this configuration

```
grails.plugin.reveng.includeTables = ['person', 'organization']
```

you would process (or re-process) just the person and organization tables. You can also use The grails.plugin.reveng.includeTableRegexes and grails.plugin.reveng.includeTableAntPatterns properties to include tables based on patterns.

You can further customize the process by specifying which columns to exclude per-table. For example, this configuration

will exclude columns col1 and col2 from table some_table, and column another_column from table another_table.

You can also use the grails.plugin.reveng.excludeColumnRegexes and grails.plugin.reveng.excludeColumnAntPatterns properties to define patterns for columns to exclude.

Destination folder

By default the domain classes are generated under the grails-app/domain folder in the package specified. But you can override the destination, for example if you're re-running the process and want to compare the new classes with the previous ones.

By default the db-reverse-engineer script will overwrite existing classes. You can set the grails.plugin.reveng.overwriteExisting property to false to override this behavior and not overwrite existing files.

Many-to-many tables

Typically many-to-many relationships are implemented using a join table which contains just two columns which are foreign keys referring to the two related tables. It's possible for join tables to have extra columns though, and this will cause problems when trying to infer relationships. By default Hibernate will only consider tables that have two foreign key columns to be join tables. To get the script to correctly use join tables with extra columns, you can specify the table names with the grails.plugin.reveng.manyToManyTables property. This is demonstrated in the tutorial.

Another problem with many-to-many relationships is that one of the two GORM classes needs to be the 'owning' side and the other needs to be the 'owned' side, but this cannot be reliably inferred from the database. Both classes need a hasMany declaration, but the 'owned' domain class also needs a belongsTo declaration. So all of your many-to-many related tables need to have the tables that will create the belongsTo classes specified in the grails.plugin.reveng.manyToManyBelongsTos property. This is demonstrated in the tutorial.

Optimistic locking columns

Hibernate assumes that columns used for optimistic lock detection are called version. If you have customized one or more column names, you can direct the script about what the custom names are with the grails.plugin.reveng.versionColumns property. This is demonstrated in the tutorial.

Logging

All of the plugin classes are in the grails.plugin.reveng package, so you can configure that package for logging to see generated messages.

5 Tutorial

In this tutorial we'll create a MySQL database and generate domain classes from it.

1. Create your Grails application.

```
$ grails create-app reveng-test
$ cd reveng-test
```

2. Install the plugin by adding a dependency in BuildConfig.groovy:

```
plugins {
...
compile ':db-reverse-engineer:3.0.0'
...
}
```

3. Configure the development environment for MySQL.

Set these property values in the development section of grails-app/conf/DataSource.groovy

```
dataSource {
    ...
    dialect = org.hibernate.dialect.MySQL5InnoDBDialect
    driverClassName = 'com.mysql.jdbc.Driver'
    password = 'reveng'
    url = 'jdbc:mysql://localhost/reveng'
    username = 'reveng'
    ...
}
```

Also add a dependency for the MySQL JDBC driver in grails-app/conf/BuildConfig.groovy:

```
dependencies {
runtime 'mysql:mysql-connector-java:5.1.38'
}
```

4. 4. Create the database.

As the root user or another user that has rights to create a database and configure grants, run

```
create database reveng;
grant all on reveng.* to reveng@localhost identified by
'reveng';
```

5. Create the database tables.

Run these create and alter statements in the reveng database:

```
use reveng;
CREATE TABLE author (
  id bigint(20) NOT NULL AUTO_INCREMENT,
 version bigint(20) NOT NULL,
 name varchar(255) NOT NULL,
 PRIMARY KEY (id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE book (
  id bigint(20) NOT NULL AUTO_INCREMENT,
  version bigint(20) NOT NULL,
  title varchar(255) NOT NULL,
 PRIMARY KEY (id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE author_books (
 author_id bigint(20) NOT NULL,
 book_id bigint(20) NOT NULL,
 PRIMARY KEY (author_id,book_id)
 KEY FK24C812F6183CFE1B (book_id)
 KEY FK24C812F6DAE0A69B (author_id)
  CONSTRAINT FK24C812F6183CFE1B FOREIGN KEY (book_id) REFERENCES book (id),
  CONSTRAINT FK24C812F6DAE0A69B FOREIGN KEY (author_id) REFERENCES author
(id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE compos (
  first_name varchar(255) NOT NULL,
  last name varchar(255) NOT NULL,
  version bigint(20) NOT NULL,
  other varchar(255) NOT NULL,
 PRIMARY KEY (first_name, last_name)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE compound unique (
 id bigint(20) NOT NULL AUTO_INCREMENT,
 version bigint(20) NOT NULL,
 prop1 varchar(255) NOT NULL,
 prop2 varchar(255) NOT NULL,
 prop3 varchar(255) NOT NULL,
 prop4 varchar(255) NOT NULL,
 prop5 varchar(255) NOT NULL,
  PRIMARY KEY (id),
  UNIQUE KEY prop4 (prop4,prop3,prop2)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE library (
  id bigint(20) NOT NULL AUTO_INCREMENT,
  version bigint(20) NOT NULL,
 name varchar(255) NOT NULL,
 PRIMARY KEY (id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE visit (
  id bigint(20) NOT NULL AUTO_INCREMENT,
  library_id bigint(20) NOT NULL,
  person varchar(255) NOT NULL,
  visit_date datetime NOT NULL,
  PRIMARY KEY (id),
  KEY FK6B04D4BE8E8E739 (library_id),
  CONSTRAINT FK6B04D4BE8E8E739 FOREIGN KEY (library_id) REFERENCES library
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE other (
  username varchar(255) NOT NULL,
 nonstandard_version_name bigint(20) NOT NULL,
  PRIMARY KEY (username)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE user (
  id bigint(20) NOT NULL AUTO_INCREMENT,
 version bigint(20) NOT NULL,
 account_expired bit(1) NOT NULL,
account_locked bit(1) NOT NULL,
  enabled bit(1) NOT NULL,
 password varchar(255) NOT NULL,
 password_expired bit(1) NOT NULL,
  username varchar(255) NOT NULL,
  PRIMARY KEY (id),
  UNIQUE KEY username (username)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE role (
  id bigint(20) NOT NULL AUTO_INCREMENT,
  version bigint(20) NOT NULL,
  authority varchar(255) NOT NULL,
  PRIMARY KEY (id),
  UNIQUE KEY authority (authority)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE user_role (
  role_id bigint(20) NOT NULL,
 user_id bigint(20) NOT NULL,
  date_updated datetime NOT NULL,
  PRIMARY KEY (role_id, user_id),
  KEY FK143BF46A667AF6FB (role id),
  KEY FK143BF46ABA5BADB (user_id),
  CONSTRAINT FK143BF46A667AF6FB FOREIGN KEY (role id) REFERENCES role (id),
  CONSTRAINT FK143BF46ABA5BADB FOREIGN KEY (user_id) REFERENCES user (id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE thing (
  thing_id bigint(20) NOT NULL AUTO_INCREMENT,
  version bigint(20) NOT NULL,
  email varchar(255) NOT NULL,
  float_value float NOT NULL,
 name varchar(123) DEFAULT NULL,
  PRIMARY KEY (thing_id),
  UNIQUE KEY email (email)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

6. Configure the reverse engineering process.

Add these configuration options to grails-app/conf/Config.groovy:

```
grails.plugin.reveng.packageName = 'com.revengtest'
grails.plugin.reveng.versionColumns = [other: 'nonstandard_version_name']
grails.plugin.reveng.manyToManyTables = ['user_role']
grails.plugin.reveng.manyToManyBelongsTos = ['user_role': 'role',
'author_books': 'book']
```

7. Run the db-reverse-engineer script.

```
$ grails db-reverse-engineer
```

8. Look at the generated domain classes.

Author and Book domain classes.

The author and book tables have a many-to-many relationship, which uses the author_books join table:

```
CREATE TABLE author (
 id bigint(20) NOT NULL AUTO_INCREMENT,
 version bigint(20) NOT NULL,
 name varchar(255) NOT NULL,
  PRIMARY KEY (id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE book (
  id bigint(20) NOT NULL AUTO_INCREMENT,
  version bigint(20) NOT NULL,
  title varchar(255) NOT NULL,
  PRIMARY KEY (id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE author_books (
  author_id bigint(20) NOT NULL,
  book_id bigint(20) NOT NULL,
  PRIMARY KEY (author_id,book_id)
  KEY FK24C812F6183CFE1B (book_id)
 KEY FK24C812F6DAE0A69B (author_id),
  CONSTRAINT FK24C812F6183CFE1B FOREIGN KEY (book_id) REFERENCES book (id),
  CONSTRAINT FK24C812F6DAE0A69B FOREIGN KEY (author_id) REFERENCES author
(id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

After running the script you'll have classes similar to these:

```
class Author {
  String name
  static hasMany = [books: Book]
  }
```

and

```
class Book {
String title
static hasMany = [authors: Author]
    static belongsTo = [Author]
}
```

Book has the line static belongsTo = Author because we specified this in Config.groovy with the grails.plugin.reveng.manyToManyBelongsTos property.

Compos domain class.

The compos table has a composite primary key (made up of the first_name and last_name columns):

```
CREATE TABLE compos (
first_name varchar(255) NOT NULL,
last_name varchar(255) NOT NULL,
version bigint(20) NOT NULL,
other varchar(255) NOT NULL,
PRIMARY KEY (first_name,last_name)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

and it generates this domain class:

```
import org.apache.commons.lang.builder.EqualsBuilder
import org.apache.commons.lang.builder.HashCodeBuilder
class Compos implements Serializable {
String firstName
   String lastName
   String other
int hashCode() {
      def builder = new HashCodeBuilder()
      builder.append firstName
      builder.append lastName
      builder.toHashCode()
boolean equals(other) {
      if (other == null) return false
      def builder = new EqualsBuilder()
      builder.append firstName, other.firstName
      builder.append lastName, other.lastName
      builder.isEquals()
static mapping = {
      id composite: ["firstName", "lastName"]
```

Since it has a composite primary key, the class is its own primary key so it has to implement Serializable and implement hashCode and equals.

CompoundUnique domain class.

The compound_unique table has five properties, three of which are in a compound unique index:

```
CREATE TABLE compound_unique (
   id bigint(20) NOT NULL AUTO_INCREMENT,
   version bigint(20) NOT NULL,
   prop1 varchar(255) NOT NULL,
   prop2 varchar(255) NOT NULL,
   prop3 varchar(255) NOT NULL,
   prop4 varchar(255) NOT NULL,
   prop5 varchar(255) NOT NULL,
   prop5 varchar(255) NOT NULL,
   primary KEY (id),
   UNIQUE KEY prop4 (prop4,prop3,prop2)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

and it generates this domain class:

```
class CompoundUnique {
String prop1
   String prop2
   String prop3
   String prop4
   String prop5

static constraints = {
      prop2 unique: ["prop3", "prop4"]
   }
}
```

Library and Visit domain classes.

The library and visit tables have a one-to-many relationship:

```
CREATE TABLE library (
   id bigint(20) NOT NULL AUTO_INCREMENT,
   version bigint(20) NOT NULL,
   name varchar(255) NOT NULL,
   PRIMARY KEY (id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE visit (
   id bigint(20) NOT NULL AUTO_INCREMENT,
   library_id bigint(20) NOT NULL,
   person varchar(255) NOT NULL,
   visit_date datetime NOT NULL,
   PRIMARY KEY (id),
   KEY FK6B04D4BE8E8E739 (library_id),
   CONSTRAINT FK6B04D4BE8E8E739 FOREIGN KEY (library_id) REFERENCES library
   (id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

and they generate these domain classes:

```
class Library {
  String name
  static hasMany = [visits: Visit]
  }
```

```
class Visit {
String person
   Date visitDate
   Library library

static belongsTo = [Library]

static mapping = {
    version false
   }
}
```

visit has no version column, so the Visit has optimistic lock checking disabled (version false).

Other domain class.

The other table has a string primary key, and an optimistic locking column that's not named version. Since we configured this with the grails.plugin.reveng.versionColumns property, the column is resolved correctly:

```
CREATE TABLE other (
username varchar(255) NOT NULL,
nonstandard_version_name bigint(20) NOT NULL,
PRIMARY KEY (username)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
class Other {
   String username
   static mapping = {
      id name: "username", generator: "assigned"
         version "nonstandard_version_name"
      }
   }
}
```

User and Role domain classes.

The user and role tables have a many-to-many relationship, which uses the user_role join table:

```
CREATE TABLE user (
  id bigint(20) NOT NULL AUTO_INCREMENT,
 version bigint(20) NOT NULL,
 account_expired bit(1) NOT NULL,
account_locked bit(1) NOT NULL,
 enabled bit(1) NOT NULL,
 password varchar(255) NOT NULL,
 password_expired bit(1) NOT NULL,
  username varchar(255) NOT NULL,
  PRIMARY KEY (id),
  UNIQUE KEY username (username)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE role (
 id bigint(20) NOT NULL AUTO_INCREMENT,
 version bigint(20) NOT NULL,
  authority varchar(255) NOT NULL,
  PRIMARY KEY (id),
  UNIQUE KEY authority (authority)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
CREATE TABLE user_role (
  role_id bigint(20) NOT NULL,
 user_id bigint(20) NOT NULL,
 date_updated datetime NOT NULL,
 PRIMARY KEY (role_id,user_id),
 KEY FK143BF46A667AF6FB (role_id),
 KEY FK143BF46ABA5BADB (user_id),
  CONSTRAINT FK143BF46A667AF6FB FOREIGN KEY (role_id) REFERENCES role (id),
  CONSTRAINT FK143BF46ABA5BADB FOREIGN KEY (user_id) REFERENCES user (id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

The user_role table has an extra column (date_updated) and would be ignored by default, but since we configured it with the grails.plugin.reveng.manyToManyTables property it's resolved correctly:

```
class Role {
   String authority

static hasMany = [users: User]
     static belongsTo = [User]

static constraints = {
     authority unique: true
   }
}
```

```
class User {
Boolean accountExpired
   Boolean accountLocked
   Boolean enabled
   String password
   Boolean passwordExpired
   String username

static hasMany = [roles: Role]

static constraints = {
    username unique: true
   }
}
```

Thing domain class.

The thing table has a non-standard primary key column (thing_id) and a unique constraint on the email column. The name column is nullable, and is defined as varchar(123):

```
CREATE TABLE thing (
    thing_id bigint(20) NOT NULL AUTO_INCREMENT,
    version bigint(20) NOT NULL,
    email varchar(255) NOT NULL,
    float_value float NOT NULL,
    name varchar(123) DEFAULT NULL,
    PRIMARY KEY (thing_id),
    UNIQUE KEY email (email)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

and it generates this domain class:

```
class Thing {
String email
  Float floatValue
  String name

static mapping = {
    id column: "thing_id"
  }

static constraints = {
    email unique: true
    name nullable: true, maxSize: 123
  }
}
```

9. Update a table and re-run the script.

Add a new column to the thing table:

```
alter table thing add new_column boolean;
```

We'll re-run the script but need to configure it to generate the updated domain class in a different directory from the default so we can compare with the original. To configure this, set the value of the grails.plugin.reveng.destDir property in grails-app/conf/Config.groovy:

```
grails.plugin.reveng.destDir = 'temp_reverse_engineer'
```

Also change the configuration to only include the thing table:

```
grails.plugin.reveng.includeTables = ['thing']
```

Re-eun the db-reverse-engineer script:

```
$ grails db-reverse-engineer
```

The script will generate this domain class in the temp_reverse_engineer/com/revengtest folder:

```
class Thing {
String email
   Float floatValue
   String name
   Boolean newColumn

static mapping = {
     id column: "thing_id"
   }

static constraints = {
   email unique: true
     name nullable: true, maxSize: 123
   newColumn nullable: true
   }
}
```

The domain class has a new Boolean newColumn field and a nullable constraint. Since this generated the correct changes it's safe to move replace the previous domain class with this one.