

# Migrations and Misc Rails Reference Cheat Sheet

by dwapi via cheatography.com/43665/cs/13036/

# **ORM (Object Relational Mapping)**

#### **Advantages**

- DB independent. moving from PG to Sqlite should be trivial.
- Cleaner code focused on business logic rather than SQL Query
- Relationship/Association Management
- Model Objects can be cached -- No need to repeatedly query DB for same data
- Transaction support
- Built in validation before save

# Disadvantages

- ◆ Abstraction = overhead (uses more memory etc...)
- SQL ignorance

## Create Table (with Datatypes)

```
# CREATE
class Create Orders < Active Rec ord :: M igr ati -
on[5.1]
  def change
       cre ate table :orders do |t|
              t.b elo ngs to :category
              t.b inary :photo # PG: bytea MySQL:
blob
              t.b oolean :success # PG: boolean
MySQL: tinyint(1)
              t.date :ship date # PG & MySQL: date
              t.d atetime :order date # PG:
timestamp MySQL: datetime
            # PG & MySQL: decimal Precise. Use
for currency, geoloc ation
              t.d ecimal :latitude, :decimal,
:precision => 15, :scale => 13
             t.float # PG & MySQL: float Less
precise thank decimal
             t.i nteger :age # PG: integer MySQL:
int(11)
              t.s tring :name # PG & MySQL:
varcha r(255)
              t.text :comments # PG & MySQL: text
              t.time :ship time # PG & MySQL: time
              t.t ime stamps # PG: timestamp
MySOL: datetime
       end
  end
end
```

## Generators

rails g model comment post:references text:string
rails g migration add\_post\_to\_user post:belongs\_to
rails g migration AddUserRefToProducts user:references
rails g migration AddPartNumberToProducts part\_number:string
rails generate controller Sessions new

#### rails db: command

# Rollback the last migration:

rails db:rollback

#### Revert the last 3 migrations:

rails db:rollback STEP=3

#### Rollback and then migrating back up:

rails db:migrate:redo STEP=3

#### Run specific migration

rails db:migrate:up VERSION=20080906120000

#### Load test fixtures

rails db:fixtures:load

# Create a db/schema.rb file that can be portably used against any database supported by ActiveRecord

db:schema:dump

### Load a schema.rb file into the database

db:schema:load

# Dump database structure to SQL file Drops the database, creates the datab

db:structure:dump

# Clone your database structure into the test database

db:test:prepare

Drops the database, creates the database and then runs migra-tions against the database. Takes a VERSION argument as well as RAILS ENV

db:reset

### Create/clear Sessions table

db:sessions:create (or :clear)





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# Postgres Specific Data Types

```
:hstore # Key => Val Hash Store
:json #The json data type stores an exact copy of
the input text
:jsonb # stored in a decomposed binary format
:array
:cidr_ address #IP Address
:ip_ad dress #IP Address
:mac_a ddress #String
```

In other DBs these are all stored as strings

# Change Table

```
class AddPartNumberToProducts <</pre>
ActiveRecord::Migration[5.0]
  def change
       add index :products, :part number
       rem ove _index :products, :part_ number
       add _re ference :this_ table, :other -
table, index: true
       rem ove re ference :this table, :other -
table, index: true
       bel ong s to:
       add _column :products, :part_ number,
:string
       add _column :products, :colum n_name,
:string, :limit => 50
       ren ame _column :shoes, :season, :season_id
       t.c hange :colum n name, :new c olu mn type
       cha nge _co lum n_d efault :table _name,
:status, 0
       t.r emove :colum n_name
end
```



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