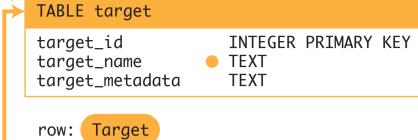
### **Subsites**

#### TABLE subsite INTEGER PRIMARY KEY subsite\_id INTEGER subsite\_target ■ TEXT subsite\_name TEXT subsite\_metadata

#### TABLE subsite\_tag INTEGER PRIMARY KEY subsite\_taq\_id

INTEGER subsite\_tag\_ref TEXT subsite\_tag\_metadata

#### **Protein**



#### TABLE feature

INTEGER PRIMARY KEY feature\_id TEXT feature family INTEGER feature\_target feature\_chain\_name TEXT TEXT feature\_residue\_name INTEGER feature residue number → TEXT feature atom names

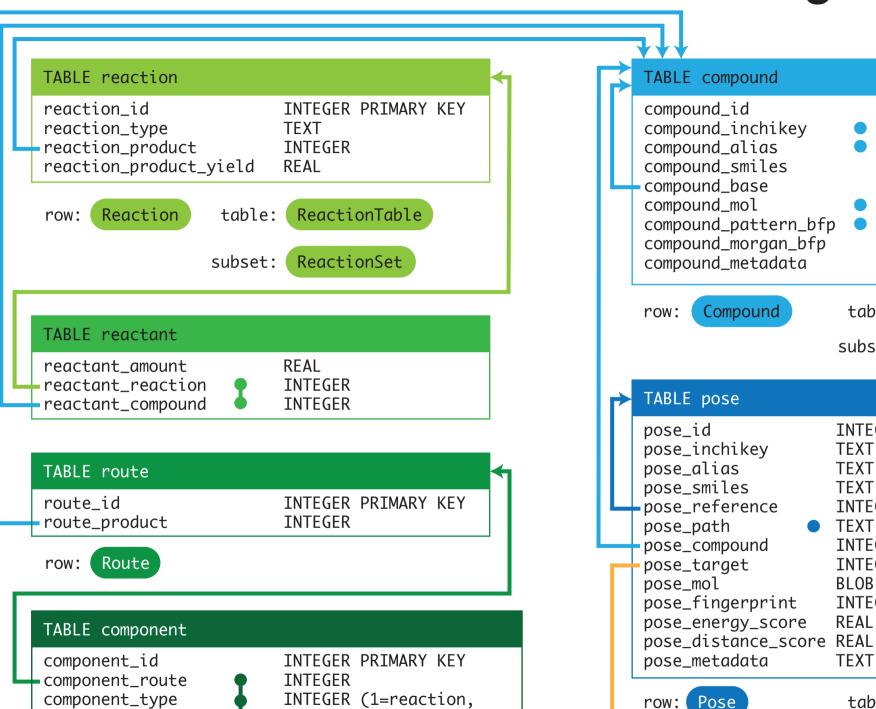
#### row: Feature

#### subset: FeatureSet

#### Interactions

#### TABLE interaction INTEGER PRIMARY KEY interaction id interaction feature INTEGER interaction\_pose **♦** TEXT interaction\_type **♦** TEXT interaction\_family TEXT interaction\_atom\_ids TEXT interaction\_prot\_coord interaction\_lig\_coord TEXT interaction\_distance REAL REAL interaction\_anale REAL interaction\_energy

#### Reactions



INTEGER

REAL

component\_ref

component\_amount

2=reactant,

3=intermediate)

## Ligands

TEXT

TEXT

TEXT

MOL

TEXT

INTEGER

bits(2048)

bits(1024)

table: CompoundTable

subset: CompoundSet

INTEGER PRIMARY KEY

table: PoseTable

subset: PoseSet

TEXT

TEXT

TEXT

TEXT

INTEGER

INTEGER

INTEGER

INTEGER

BLOB

TEXT

INTEGER PRIMARY KFY

### **Procurement**

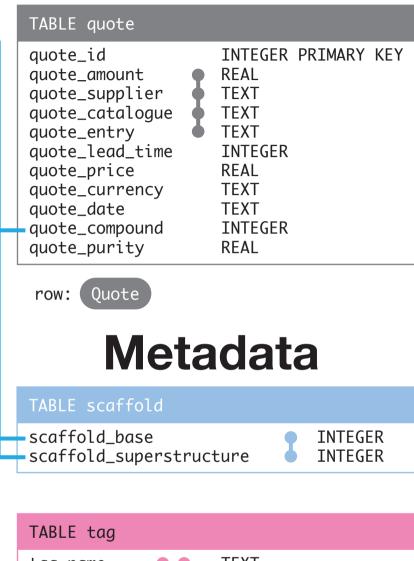




table: TagTable subset: TagSet

#### TABLE inspiration

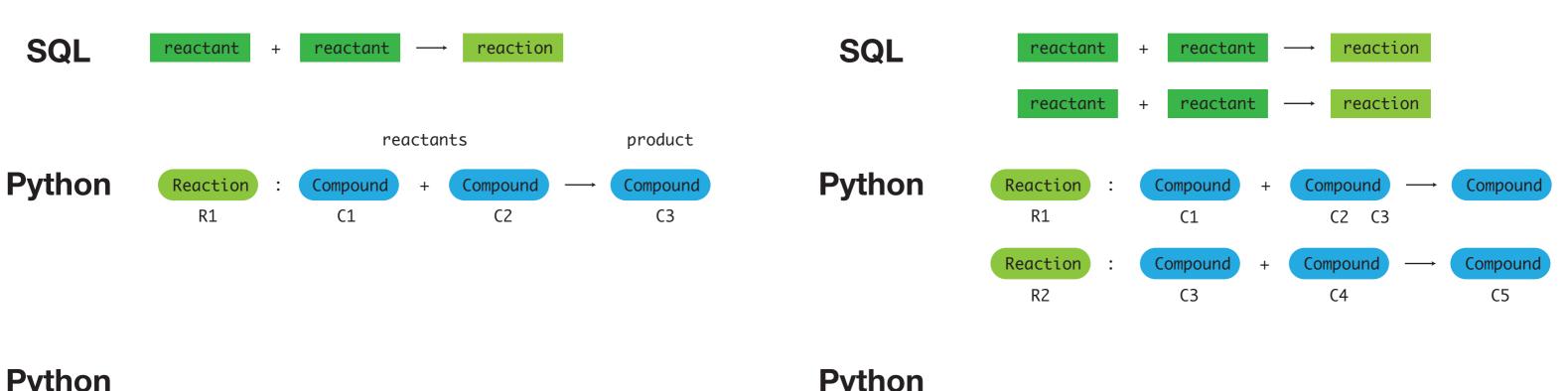
inspiration\_original INTEGER inspiration\_derivative 🌢 INTEGER

## **Single-Step Synthetis**

## **Two-Step Synthesis**

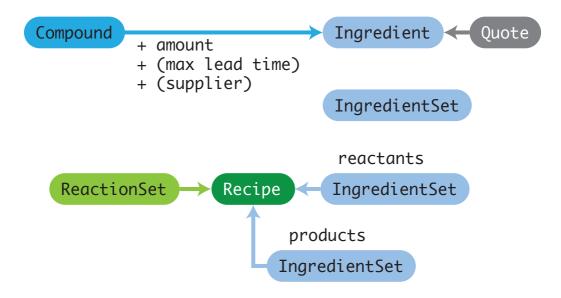
Ingredient

x mg of C3





#### **Derived Classes**



#### **Subsites**

# id BigAuto(PK) target ForeignKey(Target) name Char[30] metadata JSON poses M2M(Pose, SubsiteMember)

## id BigAuto(PK) subsite ForeignKey(Subsite) pose atom\_ids JSON metadata JSON

#### **Protein**

## id BigAuto(PK) name Char[60] metadata JSON

```
id BigAuto(PK)
family Char[30]
target ForeignKey(Target)
chain_name
residue_name
residue_number
atom_names
Char[10]
PositiveSmallInteger
JSON
```

#### Interactions

```
InteractionModel
              BigAuto(PK)
feature
              ForeignKey(Feature)
              ForeignKey(Pose)
pose
              Char[30]
type
             Char[30]
family
              JSON
atom_ids
              JSON
prot_coord
              JSON
lig_coord
              REAL
distance
              REAL
angle
              REAL
energy
```

### Reactions

## id BigAuto(PK) type Char[60] product ForeignKey(Compound) product\_yield Float

ReactantModel	
id amount reaction compound solvent	BigAuto(PK) Float ForeignKey(Reaction) ForeignKey(Compound) ForeignKey(Solvent)

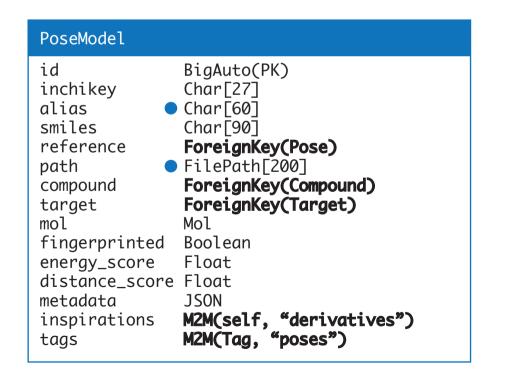
id BigAuto(PK) name ● Char[30]
metadata JSON

TABLE route	
route_id route_product	INTEGER PRIMARY KEY INTEGER

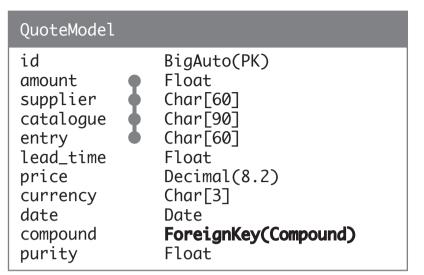
TABLE component	
<pre>component_id component_route component_type  component_ref</pre>	INTEGER PRIMARY KEY INTEGER INTEGER (1=reaction, 2=reactant, 3=intermediate) INTEGER
component_amount	REAL

## Ligands

CompoundModel	
id inchikey alias smiles mol pattern_bfp metadata scaffolds tags	BigAuto(PK) Char[27] Char[60] Char[90] Generated(Mol) Generated(Binary) JSON M2M(self, "elaborations") M2M(Tag, "compounds")



#### **Procurement**



#### Metadata

```
TagModel
id BigAuto(PK)
name Char[60]
```