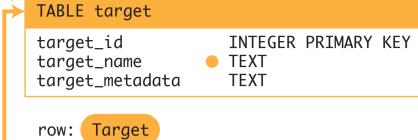
# **Subsites**

#### 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

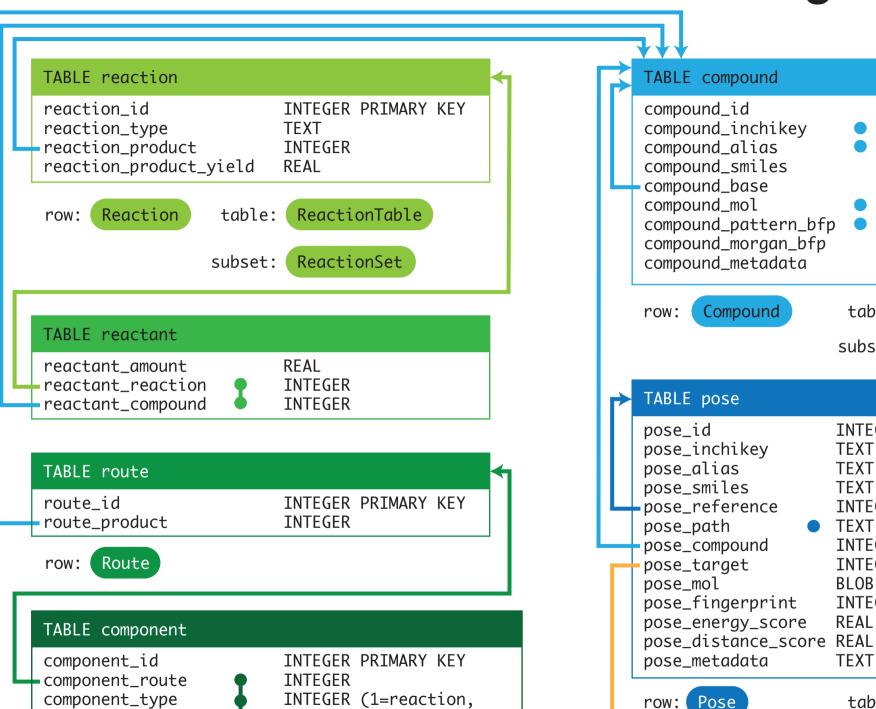
## row: Feature

### 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**

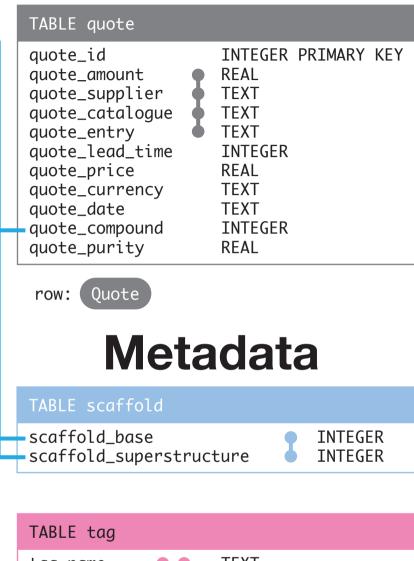




table: TagTable subset: TagSet

### TABLE inspiration

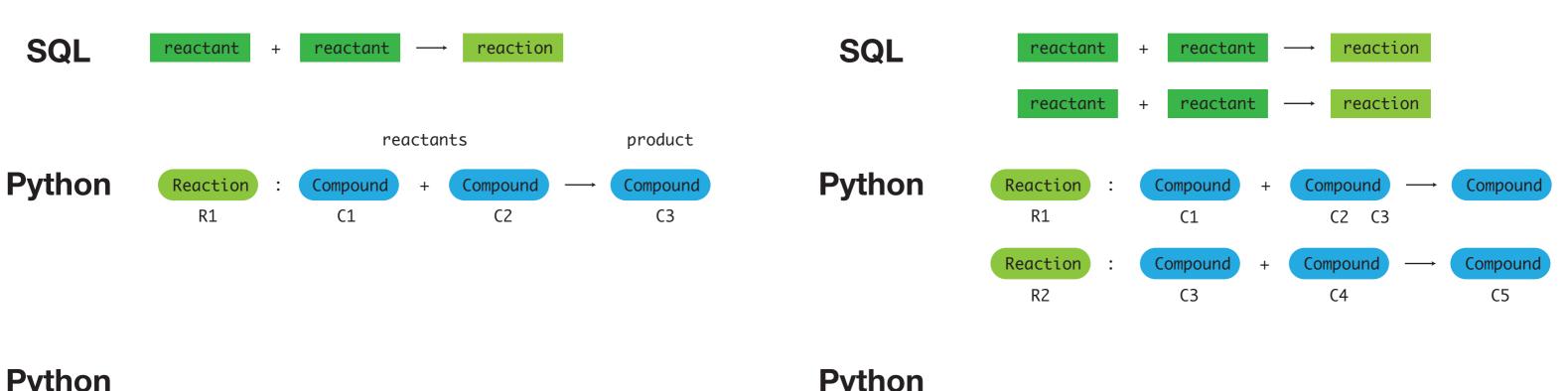
inspiration\_original INTEGER inspiration\_derivative 🌢 INTEGER

# **Single-Step Synthetis**

# **Two-Step Synthesis**

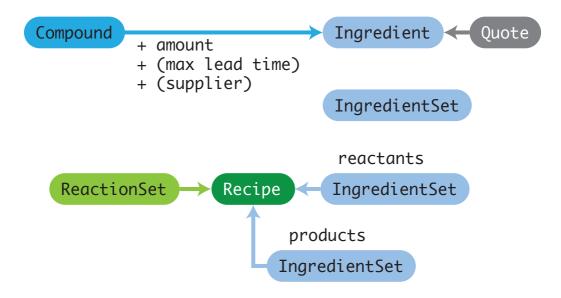
Ingredient

x mg of C3





## **Derived Classes**



## **Protein**

## TargetModel

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

Model: Target QuerySet: TargetSet

Table: TargetTable

#### FeatureModel

id
family
target
chain\_name
residue\_name
residue\_number
atom\_names
BigAuto(PK)
Char[30]
ForeignKey(Target)
Char[5]
Char[10]
PositiveSmallInteger
JSON

Model: Feature

### SubsiteModel

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

Model: Subsite

### SubsiteMember

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

Model: SubsiteMember

# **Interactions**

### InteractionModel

BigAuto(PK) id ForeignKey(Feature) feature ForeignKey(Pose) pose Char [30] type Char[30] family atom\_ids **JSON JSON** prot\_coord lig\_coord **JSON** REAL distance REAL anale REAL eneray

Model: Interaction

# Ligands

### CompoundModel

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

Model: Compound QuerySet: CompoundSet

Table: (CompoundTable)

### PoseModel

BigAuto(PK) id inchikev Char [27] Char [60] alias smiles Char[90] ForeignKey(Pose) reference ● FilePath[200] path ForeignKey(Compound) compound ForeignKey(Target) target mol fingerprinted Boolean Float energy\_score distance\_score Float **JSON** metadata M2M(self, "derivatives") inspirations M2M(Tag, "poses") tags

Model: Pose QuerySet: PoseSet

Table: PoseTable

## Reactions

### ReactionModel

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

Model: Reaction

#### ReactantModel

id
amount
reaction
compound
solvent

BigAuto(PK)
Float
ForeignKey(Reaction)
ForeignKey(Compound)
ForeignKey(Solvent)

Model: Reactant

### <u>Sol</u>ventModel

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

Model: Solvent

# Metadata

### TagModel

id BigAuto(PK)
name Char[60]

Model: Tag

#### QuoteModel

id BigAuto(PK) amount Float supplier Char[60] Char [90] catalogue Char[60] entry lead\_time Float Decimal(8.2) price Char[3] currency date Date ForeignKey(Compound) compound Float purity

Model: Quote