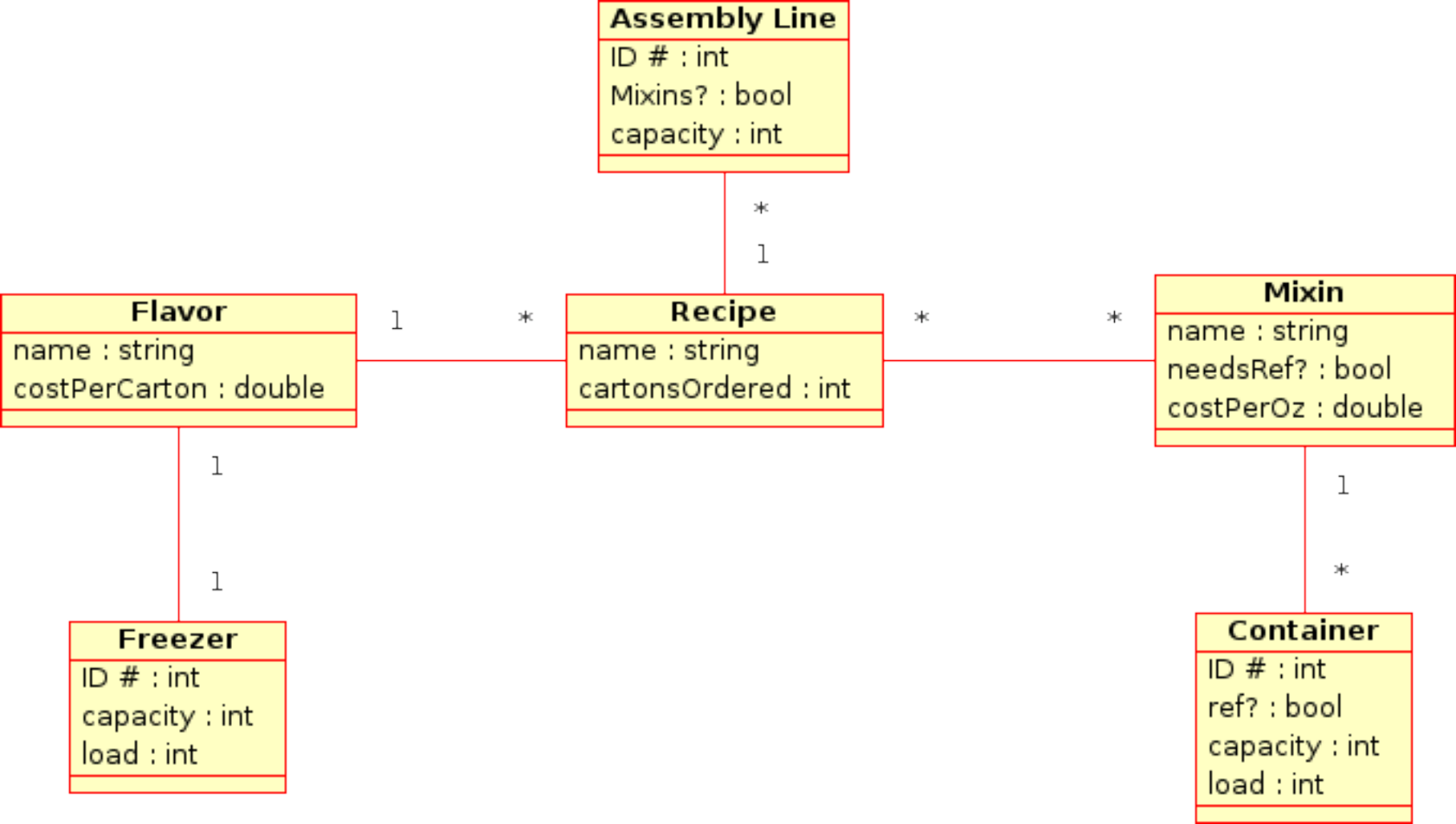




Ben & Jerry's – Schema

```
CREATE TABLE freezer (  
    id integer,  
    capacity integer,  
    load integer,  
    primary key (id)  
);  
  
CREATE TABLE flavor (  
    name text,  
    costPerCarton real,  
    freezerId integer,  
    primary key (name),  
    foreign key (freezerId) references freezer(id)  
        on delete set null  
        on update cascade  
);  
  
CREATE TABLE recipe (  
    name text primary key,  
    cartonsOrdered integer,  
    flavorName text,  
    foreign key (flavorName) references flavor(name)  
);  
  
CREATE TABLE assemblyLine (  
    id integer primary key,  
    mixins text,  
    capacity integer,  
    recipe text,  
    foreign key (recipe) references recipe(name)  
);  
  
CREATE TABLE mixin (  
    name text primary key,  
    needsRef text,  
    costPerOz real  
);  
  
CREATE TABLE container (  
    container_id integer primary key,  
    ref text,  
    capacity integer,  
    load integer,  
    mixin_name text,  
    foreign key (mixin_name) references mixin(name)  
);  
  
CREATE TABLE ingredients (  
    recipe_name text,  
    mixin_name text,  
    foreign key (mixin_name) references mixin(name),  
    foreign key (recipe_name) references recipe(name),  
    primary key (recipe_name, mixin_name)  
);
```

Ben & Jerry's – Data (1 of 2)

FREEZER

id	capacity	load
1	16	16
2	160	80
3	220	220
4	240	240
5	220	80
9	50	5
17	160	80
18	160	80
20	320	16

FLAVOR

name	costPerCarton	freezerId
fudge	0.15	2
vanilla	0.12	1
chocolate	0.16	4
banana	0.21	3
cherry	0.23	5
mint	0.23	9
strawberry	0.19	17
pistachio	0.19	20
stout	0.23	

RECIPE

name	cartonsOrdered	flavorName
NYSFC	100	chocolate
Phish Food	300	chocolate
Mint Chocolate Chip	175	mint
Cherry Garcia	900	cherry
Chocolate Therapy	120	chocolate
Chocolate Chip Cookie Dough	290	vanilla
Strawberry Cheesecake	190	strawberry
Brownie Batter Core	90	chocolate
Milk & Cookies	100	vanilla
Americone Dream	200	vanilla
Chunky Monkey	250	banana
Strawberry Fields Forever	45	strawberry
Gimme S'more!	150	chocolate
Half-baked	1150	vanilla
Make Mine Vanilla	200	vanilla

ASSEMBLYLINE

id	mixins	capacity	recipe
1	yes	100	NYSFC
2	no	200	Make Mine Vanilla
3	yes	120	NYSFC
4	yes	100	Chocolate Therapy

Ben & Jerry's – Data (2 of 2)

MIXIN

name	needsRef	costPerOz
cookie dough	yes	0.2
fudge flakes	yes	0.2
banana slices	yes	0.05
marshmallows	no	0.05
brownies	no	0.15
cherries	yes	0.17
waffle cone pieces	no	0.08
walnuts	no	0.13
graham crackers	no	0.09
almonds	no	0.18
chocolate chips	yes	0.16

CONTAINER

container_id	ref	capacity	load	mixin_name
1	no	100	50	brownies
4	no	40	40	almonds
6	no	50	40	waffle cone pieces
12	yes	80	60	cherries
13	yes	80	70	cherries
15	yes	200	100	brownies
17	yes	200	100	chocolate chips
25	no	200	200	fudge flakes
91	no	50	50	graham crackers
92	no	50	0	graham crackers
93	no	50	24	graham crackers

INGREDIENTS

recipe_name	mixin_name
Strawberry Cheesecake	graham crackers
Phish Food	marshmallows
Phish Food	fudge flakes
Cherry Garcia	fudge flakes
Americone Dream	waffle cone pieces
Mint Chocolate Chip	chocolate chips
Americone Dream	fudge flakes
Cherry Garcia	cherries
Brownie Batter Core	brownies
Chunky Monkey	walnuts
Half-baked	brownies
Half-baked	cookie dough
Chocolate Chip Cookie Dough	cookie dough
NYSFC	brownies
NYSFC	almonds
Chunky Monkey	banana slices
NYSFC	walnuts
NYSFC	fudge flakes
NYSFC	chocolate chips