$$H_3C$$
 $CH_3$ 
 $CH_2(CH_2)_3CH_3$ 

Anthony Santostefano

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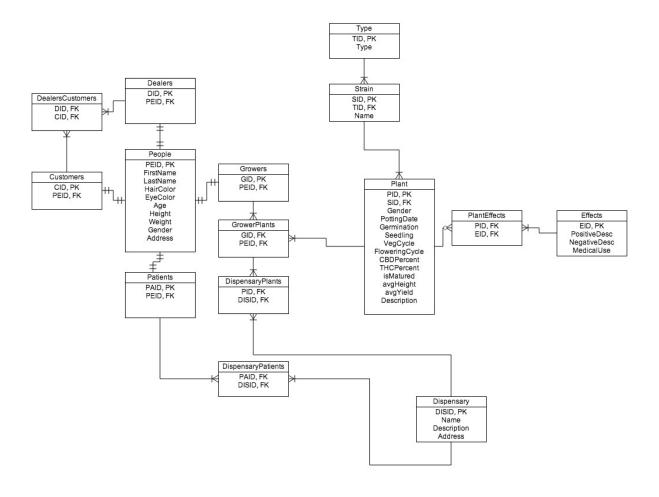
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## **Executive Summary**

This document is a small look inside the complex world of the legal, and illegal, sale, distribution, and growth of marijuana. It is meant to show many things, but primarily the growth cycles of the individual strains, their affects on the human brain, and an average look into their yields. Even though data is relative, it is never fake or meant to be misleading, all data is based upon real numbers whether it be street, dispensary or research level of the industry.

Firstly the Entity Relationship Diagram is shown in order to display the tables of the database, and how closely related the data is in actuality. Next, their SQL scripts written to build on Postgres, these will include the framework of the database, its sample data, views, triggers and stored procedures. Lastly, the security of the data is viewable and explained.

# ER Diagram



# **Type Table**

This table contains the marijuana strain type, which can be Indica, Sativa, or Hybrid.

## **Functional Dependency:**

$$tid => type$$

### **Create Table Statement:**

```
CREATE TABLE Type
(
    tid INTEGER NOT NULL PRIMARY KEY,
    type VARCHAR(6) UNIQUE check(type ='Indica' OR type = 'Sativa' OR type ='Hybrid')
);
```

	tid integer	type character varying(6)	
1	1	Indica	
2	2	Sativa	
3	3	Hybrid	

## **Strains Table**

This table contains the strains and their names.

## **Functional Dependency:**

sid => tid, name

#### **Create Table Statement:**

```
CREATE TABLE Strains
(
    sid INTEGER NOT NULL PRIMARY KEY,
    tid INTEGER NOT NULL,
    name TEXT, -- The name of the plant.
    FOREIGN KEY (tid) REFERENCES Type(tid)
);
```

	sid integer	tid integer	name text
1	1	1	Afghan Kush
2	2	1	Northern Lights
3	3	1	Bubba Kush
4	4	1	LA Confidential
5	5	1	Skywalker
6	6	1	G13
7	7	1	Death Star
8	8	1	Granddaddy Purple
9	9	1	Strawberry Kush
10	10	1	Obama Kush
11	11	2	Sour Diesel
12	12	2	Purple Power
13	13	2	Cannalope Haze
14	14	2	Candy Jack
15	15	2	Ultimate Trainwreck
16	16	2	Voodoo
17	17	2	Very Berry Haze
18	18	2	Mango Dream
19	19	2	OG
20	20	2	AK 47
21	21	3	Barneys Tangerine Dream

22	22	3	Sour Diesel
23	23	3	Super Silver Haze
24	24	3	Super Lemon Haze
25	25	3	White Widow
26	26	3	Trainwreck Kush Haze
27	27	3	Blue Dream
28	28	3	Atomic Northern Lights
29	29	3	Skywalker OG
30	30	3	Pineapple Express

## **Plants Table**

The Plants table contains a list of the plants and their characteristics. It contains information about their gender, their potting date (the date they were planted), the amount of time until germination, the time they spend (in days) as a seedling, the time they spend during their vegetative stage where they do most of their initial growing measured in days, their flowering stage where they may double in height and begin their budding process measured in days, their CBD or cannabinoid percentage the chemical is found mostly to have an effect physically, THC or tetrahydrocannabinol percentage the chemical primarily effects the psyche, if they are fully matured or developed, their average height measure in inches, their average yield measured in grams, and a brief description about the plant.

#### **Functional Dependency:**

pid => sid, gender, pottingdate, germination, seedling, vegcycle, floweringcycle, cbdpercent, thepercent, ismatured, avgheight, description

#### **Create Table Statement:**

	sid er int		name text	type character varying(6)	gender character varying(6)		germination integer		vegcycle integer	floweringcycle integer	cbdpercent numeric		ismatured boolean		avgyield integer	
1	1	1	Afghan Kush	Indica	Female	2014-04-26	3	28	45	51	0.25	15.13	f	60	500	The Afgha
2	2	20	AK 47	Sativa	Female	2014-04-26	3	15	25	31	0.22	21.15	f	37	120	The AK-47
3	3	25	White Widow	Hybrid	Female	2014-04-26	3	10	45	60	0.13	15.67	f	74	425	The White
4	4	26	Trainwreck Kush Haze	Hybrid	Female	2014-04-26	3	10	50	65	0.22	18.13	f	80	350	The Train
5	5	27	Blue Dream	Hybrid	Female	2014-04-26	3	15	45	70	0.41	16.62	f	60	600	The Blue
6	6	11	Sour Diesel	Sativa	Female	2014-04-26	3	10	30	85	0.85	53.02	f	72	500	The Sour
7	7	17	Very Berry Haze	Sativa	Female	2014-04-26	3	10	40	67	20.00	17.00	f	59	700	The Very
8	8	12	Purple Power	Sativa	Female	2014-04-26	3	10	25	56	0.00	20.00	f	102	550	The Purpl
9	9	10	Obama Kush	Indica	Female	2014-04-26	3	10	30	60	0.10	23.00	f	65	450	The Obama
10	10	18	Mango Dream	Sativa	Female	2014-04-26	3	15	45	65	0.50	17.00	f	65	500	The Mango
11	11	2	Northern Lights	Indica	Female	2014-04-26	3	10	45	50	0.18	11.51	f	98	575	The North
12	12	15	Ultimate Trainwreck	Sativa	Female	2014-04-26	3	10	40	56	0.77	21.74	f	80	600	The Ultim
13	13	13	Cannalope Haze	Sativa	Female	2014-04-26	3	10	25	63	0.33	20.33	f	40	350	The Canna
14	14	21	Barneys Tangerine Dream	Hybrid	Female	2014-04-26	3	10	35	70	1.80	25.00	f	40	500	The Barne
15	15	5	Skywalker	Indica	Female	2014-04-26	3	10	30	72	0.20	12.00	f	60	400	The Skywa
16	16	19	OG	Sativa	Female	2014-04-26	3	10	45	56	0.70	20.00	f	80	525	The OG Pl
17	17	24	Super Lemon Haze	Hybrid	Female	2014-04-26	3	10	50	75	0.21	19.33	f	74	800	The Super
18	18	8	Granddaddy Purple	Indica	Female	2014-04-26	3	20	40	54	0.06	17.56	f	84	770	The Grand
19	19	28	Atomic Northern Lights	Hybrid	Female	2014-04-26	3	10	20	50	0.36	11.10	f	90	500	The Atomi
20	20	30	Pineapple Express	Hybrid	Female	2014-04-26	3	10	20	56	0.35	18.13	f	78	425	The Pinea
21	21	6	G13	Indica	Female	2014-04-26	3	10	45	60	0.25	14.97	f	60	600	The G13 P
21	21	6	G13	Indica	Female	2014-04-26	3	10	45	60	0.25	14.97	f	60	600 T	he G13 P
22	22	29	Skywalker OG	Hybrid	Female	2014-04-26	3	10	30	58	0.13	20.24	f	74	550 T	he Skywa
23	23	16	Voodoo	Sativa	Female	2014-04-26	3	10	25	56	0.15	23.92	f	72	625 T	he Voodo
24	24	4	LA Confidential	Indica	Female	2014-04-26	3	10	22	54	0.48	17.72	f	55	375 T	he LA Co
25	25	23	Super Silver Haze	Hybrid	Female	2014-04-26	3	10	45	77	0.41	19.25	f	68	750 T	he Super
26	26	22	Sour Diesel	Hybrid	Female	2014-04-26	3	10	30	89	0.85	53.02	f	80	600 T	he O.D S
27	27	3	Bubba Kush	Indica	Female	2014-04-26	3	10	40	63	0.26	18.75	f	48	800 T	he Bubba
28	28	14	Candy Jack	Sativa	Female	2014-04-26	3	10	20	60	0.10	16.89	f	52	500 T	he Candy
29	29	9	Strawberry Kush	Indica	Female	2014-04-26	3	10	35	64	0.40	20.30	f	92	1000 T	he Straw
30	30	7	Death Star	Indica	Female	2014-04-26	3	10	30	65	0.43	18.00	f	80	525 T	he Death

## **Effects Table**

The effects table contains the possible effects after user, and the common medical uses.

## **Functional Dependency:**

eid => PostiveDesc, NegativeDesc, MedicalUse

#### **Create Table Statement:**

```
CREATE TABLE Effects
(
    eid INTEGER NOT NULL PRIMARY KEY,
    PositiveDesc text,
    NegativeDesc text,
    MedicalUse text
);
```

	eid integer	positivedesc text	negativedesc text	medicaluse text
1	1	Euphoric, Happy, Relaxed, Sleepy, Uplifted	Dizzy, Dry Mouth, Dry Eyes, Headache, Paran	Anxiety, Migraines, ADD/ADHD, PMS, Arthritis
2	2	Creative, Energetic, Euphoric, Happy, and U	Dizzy, Dry Mouth, Dry Eyes, Headache, Paran	Anxiety, Migraines, ADD/ADHD, Bipolar Disord
3	3	Creative, Energetic, Euphoric, Happy, and U	Dizzy, Dry Mouth, Dry Eyes, Headache, Parano	Anxiety, Migraines, ADD/ADHD, Bipolar Disord

## **Plant Effects Table**

The Plant Effects table is the join table between the plants and their effects.

### **Functional Dependency:**

pid, eid =>

#### **Create Table Statement:**

```
CREATE TABLE PlantEffects
(
    pid INTEGER,
    eid INTEGER,
    FOREIGN KEY (pid) REFERENCES Plants(pid),
    FOREIGN KEY (eid) REFERENCES Effects(eid),
    PRIMARY KEY (pid, eid)
);
```

	pid integer	eid integer	16	23	2
			16	23	
1	1	1	17	7	2
2	11	1	18	10	2
3	27	1	19	16	2
4	24	1	20	2	2
5	15	1	21	14	3
6	21	1		26	3
7	30	1	22		
8	18	1	23	25	3
	29	1	24	17	3
9			25	3	3
10	9	1			
11	6	2	26	4	3
12	8	2	27	5	3
13	13	2	28	19	3
14	28	2	29	22	3
15	12	2	30	20	3
13		_			

## People Table

The people table contains information about the people entered into the database.

### **Functional Dependency:**

peid => firstname, lastname, age, haircolor, eyecolor, height, weight, gender,
address

#### **Create Table Statement:**

```
CREATE TABLE People

(
    peid INTEGER NOT NULL PRIMARY KEY,
    firstname VARCHAR(20),
    lastname VARCHAR(30),
    age INTEGER,
    haircolor VARCHAR(10),
    eyecolor VARCHAR(10),
    height INTEGER, -- Height of the person in inches.
    weight INTEGER, -- Weight of the person in pounds.
    gender VARCHAR(6) check(gender ='Male' OR gender ='Female'),
    address TEXT
);
```

	peid integer	firstname character varying(20)	lastname character varying(30)	age integer	haircolor character varying(10)	eyecolor character varying(10)			gender character varying(6)	address text
1	1	John	Doe	35	Black	Brown	64	150	Male	19 Star
2	2	Suzi	Queue	18	Blonde	Blue	62	125	Female	25 Star
3	3	Jessica	Morgan	23	Brunette	Brown	72	145	Female	19 High
4	4	Tony	McJackson	42	Blonde	Hazel	68	165	Male	29 Star
5	5	Danielle	McGrubersen	38	Red	Brown	70	145	Female	35 Left
6	6	Jessica	Jorgen	25	Brunette	Brown	72	145	Female	14 Mill
7	7	Daniel	Bates	22	Brunette	Blue	76	185	Male	25 Mair
8	8	Norman	Bates	19	Brunette	Brown	70	150	Male	25 Mair
9	9	Norma	Bates	35	Brunette	Blue	70	145	Female	25 Mair
10	10	Ryan	Pool	21	Brown	Blue	68	175	Male	35 West
11	11	Vincent	Stallman	32	Brown	Blue	78	178	Male	30 West
12	12	Erika	Manchest	27	Blonde	Blue	68	125	Female	92 Wind
13	13	Tracy	Detka	24	Blonde	Brown	65	105	Female	325 Wor
14	14	Nancy	Wilcrest	47	Blonde	Blue	72	125	Female	22 Scar
15	15	Hayley	Consen	20	Black	Hazel	65	140	Female	24 Mair

# **Dispensaries Table**

The Dispensaries table contains the name, address, and location of the dispensaries.

## **Functional Dependency:**

disid => name, description, address

#### **Create Table Statement:**

```
CREATE TABLE Dispensaries
(
    disid INTEGER NOT NULL PRIMARY KEY,
    name VARCHAR(50),
    description TEXT,
    address TEXT
);
```

		name character varying(50)	description text	address text
1	1	Capitola Healing Association	Great customer service and top qua	3088 Winkle Ave, Santa Cruz, California, 95065
2	2	Herbal Cruz	Great selection, and a large quant	1001 41st Ave, Santa Cruz, California, 95062
3	3	La Brea Compassionate Caregivers	Very friendly staff, and a well cl	735 N La Brea Ave, Los Angeles, California, 90038
4	4	Exhale Med Center	Super friendly associates, prices	980 N La Cienega Blvd, Los Angeles, California, 90069
5	5	The Giving Tree of Denver	Number 1 rated dispenary in Denver	2707 W 38th Ave, Denver, Colorado, 80211
6	6	Kind Love	Awesome selection of CBD rich buds	4380 E Alameda Ave Denver, Colardo, 80246

## Growers Table

The Growers table inherits the primary key from people in order to display what people are also growers.

## **Functional Dependency:**

gid => peid

#### **Create Table Statement:**

```
CREATE TABLE Growers
(
gid INTEGER NOT NULL PRIMARY KEY,
peid INTEGER,
FOREIGN KEY (peid) REFERENCES People(peid)
);
```

	gid integer	peid integer
1	1	10
2	2	2
3	3	4
4	4	5
5	5	9

## **Grower Plants Table**

The Grower Plants table is the join table between Plants and Growers in order to show what plants are grown by what person.

#### **Functional Dependency:**

gid, pid =>

#### **Create Table Statement:**

```
CREATE TABLE GrowerPlants
(
    gid INTEGER,
    pid INTEGER,
    FOREIGN KEY (gid) REFERENCES Growers(gid),
    FOREIGN KEY (pid) REFERENCES Plants(pid),
    PRIMARY KEY (gid, pid)
);
```

	gid integer	pid integer
1	1	23
2	1	2
3	1	20
4	1	13
5	1	4
6	1	1
7	2	26
8	2	25
9	2	5
10	2	21
11	2	30
12	3	19
13	3	17
14	3	22

15	3	7
16	3	4
17	3	28
18	3	9
19	4	29
20	4	20
21	4	15
22	4	12
23	4	24
24	4	8
25	5	6
26	5	14
27	5	15
28	5	18
29	5	3
30	5	10

## **Dispensary Plants Table**

The Dispensary Plants table is the join table between Dispensaries and Plants to show which Plants are purchased by what dispensaries.

#### **Function Dependency:**

pid, disid =>

#### **Create Table Statement:**

```
CREATE TABLE DispensaryPlants
(
    pid INTEGER,
    disid INTEGER,
    FOREIGN KEY (pid) REFERENCES Plants(pid),
    FOREIGN KEY (disid) REFERENCES Dispensaries(disid),
    PRIMARY KEY (pid, disid)
);
```

	pid integer	disid integer		pid integer	disid integer	28	25	4
_	30	1				29	14	
1			15	4	2	30	15	4
2	21	1	16	19	2	31	23	4
3	5	1	17	3	3	32	29	4
4	6	1	18	19	3	33	3	5
5	10	1	19	8	3	34	30	5
6	4	1	20	9	3	35	2	5
7	19	1	21	14	3		15	5
	29	1	22	18	3	36		
8			23	6	3	37	25	5
9	29	2		29	3	38	17	5
10	8	2	24			39	20	5
	24	2	25	30	4	39		
11			26	21	4	40	19	5
12	20	2	27	5	4	41	3	6
13	12	2	28	25	4	42	18	6
14	15	2	29	14	4	43	6	6

44	15	6
45	7	6
46	22	6
47	8	6
48	24	6

## **Patients Table**

The Patients table inherits the primary key from People in order to show what people are patients.

#### **Functional Dependency:**

paid => peid

#### **Create Table Statement:**

```
CREATE TABLE DispensaryPatients
(
    paid INTEGER,
    disid INTEGER,
    FOREIGN KEY (paid) REFERENCES Patients(paid),
    FOREIGN KEY (disid) REFERENCES Dispensaries(disid),
    PRIMARY KEY (paid, disid)
);
```

	paid integer	peid integer
1	1	1
2	2	1
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

## **Dispensary Patients Table**

The Dispensary Patients table is the join table between Dispensaries and Patients to show which Patients belong to which Dispensaries.

#### **Functional Dependency:**

paid, disid =>

#### **Create Table Statement:**

```
CREATE TABLE DispensaryPatients
(
    paid INTEGER,
    disid INTEGER,
    FOREIGN KEY (paid) REFERENCES Patients(paid),
    FOREIGN KEY (disid) REFERENCES Dispensaries(disid),
    PRIMARY KEY (paid, disid)
);
```

	paid integer	disid integer
1	1	4
2	2	3
3	3	1
4	4	2
5	5	1
6	6	6
7	7	5
8	8	5
9	9	6

## **Dealers Table**

The Dealers table inherits the primary key from People in order to show what people are Dealers.

## **Functional Dependency:**

did => peid

### **Create Table Statement:**

```
CREATE TABLE Dealers
(
    did INTEGER NOT NULL PRIMARY KEY,
    peid INTEGER,
    FOREIGN KEY (peid) REFERENCES People(peid)
);
```

	did integer	peid integer
1	1	15
2	2	11
3	3	10

## **Customers Table**

The Customers table inherits the primary key from People in order to show what people are Customers.

### **Functional Dependency:**

cid => peid

#### **Create Table Statement:**

```
CREATE TABLE Customers
(
    cid INTEGER NOT NULL PRIMARY KEY,
    peid INTEGER,
    FOREIGN KEY (peid) REFERENCES People(peid)
);
```

	cid integer	peid integer
1	1	15
2	2	11
3	3	12
4	4	13
5	5	14

## **Dealers Customers Table**

The Dealers Customers table is the join table between Dealers and Customers to show which Customers purchase from what Dealers.

### **Functional Dependency:**

### **Create Table Statement:**

```
CREATE TABLE DealersCustomers
(
    did INTEGER,
    cid INTEGER,
    FOREIGN KEY (did) REFERENCES Dealers(did),
    FOREIGN KEY (cid) REFERENCES Customers(cid),
    PRIMARY KEY (did, cid)
);
```

	did integer	cid integer
1	3	1
2	3	2
3	1	4
4	1	3
5	2	2
6	2	4
7	1	5

## View – Marijuana Strains

The Marijuana Strains view is useful in order to show the strains types.

	Strain_ID integer	type character varying(6)	Strain_Name i) text				
1	1	Indica	Afghan Kush				
2	2	Indica	Northern Lights				
3	3	Indica	Bubba Kush				
4	4	Indica	LA Confidential				
5	5	Indica	Skywalker				
6	6	Indica	G13				
7	7	Indica	Death Star				
8	8	Indica	Granddaddy Purple				
9	9	Indica	Strawberry Kush				
10	10	Indica	Obama Kush				

## View – Marijuana Full Details

A full details view would be useful to a dispensary who wanted to know more about the plant or a grower interested in growing.

```
CREATE VIEW MarijuanaFullDetails AS
SELECT Plants.pid AS "Plant ID",
       Strains.sid AS "Strain ID",
       name.
       type,
       gender.
       pottingdate AS "Date Planted",
       germination AS "Germination Days",
       seedling AS "Days as Seedling",
       vegcycle AS "Vegetative Phase Days",
       floweringcycle AS "Flowering Cycle Days",
       cbdpercent,
       thopercent,
       ismatured AS "Ready",
       avgheight AS "Average Height in.",
       avgyield AS "Average Yield gr",
       description
 FROM Plants FULL OUTER JOIN Strains ON (Plants.sid = Strains.sid)
 INNER JOIN Type ON (Strains.tid = Type.tid)
 ORDER BY Plants.pid ASC;
```

SELECT \* FROM MarijuanaFullDetails WHERE cbdpercent > 0.56;

		Strain ID integer		type character varying(6)	gender character varying(6)		Germination integer	Days as Seedling integer		Flowering Cycle Days integer			Ready boolean		Average Yi integer	description text
1	6	11	Sour	Sativa	Female	2014-04-20	3	10	30	85	0.85	53.02	f	72	500	The Sour
2	7	17	Very	Sativa	Female	2014-04-20	3	10	40	67	20.00	17.00	f	59	700	The Very
3	12	15	Ultin	Sativa	Female	2014-04-20	3	10	40	56	0.77	21.74	f	80	600	The Ultin
4	14	21	Barne	Hybrid	Female	2014-04-20	3	10	35	70	1.80	25.00	f	40	500	The Barne
5	16	19	OG	Sativa	Female	2014-04-20	3	10	45	56	0.70	20.00	f	80	525	The OG P1
6	26	22	Sour	Hybrid	Female	2014-04-20	3	10	30	89	0.85	53.02	f	80	600	The O.D S

## **View – Plant Strain Effects**

The Plant Strain Effects view would be useful for purchaser before purchasing.

```
CREATE VIEW PlantStrainEffects AS

SELECT name,
    Description,
    PositiveDesc AS "Positive Characteristics",
    NegativeDesc AS "Negative Chataceristics",
    MedicalUse AS "Medical Uses"

FROM Strains FULL OUTER JOIN Plants ON (Plants.sid = Strains.sid)

INNER JOIN PlantEffects ON (Plants.pid = PlantEffects.pid)

INNER JOIN Effects ON (PlantEffects.eid = Effects.eid);

SELECT * FROM PlantStrainEffects WHERE name = 'Granddaddy Purple';
```

name text text text Medical Uses text text text text text text

1 Granddaddy Purple The Granddaddy Purple Plant & Euphoric, Happy, Relaxed, Sleepy, Dizzy, Dry Mouth, Anxiety, Migraines, ADD/ADHD, PMS, Arthritis

# **View – Dispensary Strains**

The Dispensary Strains view would be useful until an actual inventory view is developed.

It gives us minimal knowledge of what the dispensaries may carry.

	Dispensary ID integer	Dispensary Name character varying(50)	Strain text
1	1	Capitola Healing Association	Death Star
2	1	Capitola Healing Association	G13
3	1	Capitola Healing Association	Blue Dream
4	1	Capitola Healing Association	Sour Diesel
5	1	Capitola Healing Association	Mango Dream
6	1	Capitola Healing Association	Trainwreck Kush Haze
7	1	Capitola Healing Association	Atomic Northern Lights
8	1	Capitola Healing Association	Strawberry Kush
9	4	Exhale Med Center	Voodoo
10	4	Exhale Med Center	Death Star
11	4	Exhale Med Center	G13

## **View - Dispensary\_Patients**

The Dispensary\_Patients view would be useful in order to see what patient purchase from what dispensenary.

	Dispensary Name character varying(50)	Dispensary Address text	Patient Name text	age integer	Patient Address text
1	The Giving Tree of Denver	2707 W 38th Ave,	Daniel Bates	22	25 Main ST, Denver, Colorado, 80201
2	The Giving Tree of Denver	2707 W 38th Ave,	Norman Bates	19	25 Main ST, Denver, Colorado, 80201
3	Kind Love	4380 E Alameda A	Jessica Jorgen	25	14 Mill ST, Denver, Colorado, 80201
4	Capitola Healing Association	3088 Winkle Ave,	Jessica Morgan	23	19 High ST, Santa Cruz, California, 95062

## **Triggers/Stored Procedures**

### Update Maturity:

This trigger will update the isMatured boolean from false to true in the Plants table when the growth cycle is complete.

#### Get Plants By Name:

Allows user to input a Strain name and returns information about the plant.

```
create or replace function GetPlants(text, REFCURSOR) returns refcursor as
declare
   PlantName text
                        := $1;
   resultset REFCURSOR := $2;
begin
   open resultset for
      SELECT Plants.pid.
             Strains.sid,
             Strains.name,
             Type.type,
             floweringcycle,
             cbdpercent,
             thcpercent,
             ismatured,
             avaheiaht,
             avgyield
        FROM Plants FULL OUTER JOIN Strains ON (Plants.sid = Strains.sid)
        INNER JOIN Type ON (Strains.tid = Type.tid)
       WHERE PlantName = Strains.name
       ORDER BY Plants.pid ASC;
   return resultset;
end;
language plpgsql;
```

		pid integer		name text	type character varying(6)	floweringcycle integer	cbdpercent numeric			avgheight integer	avgyield integer
ı	1	20	30	Pinec	Hybrid	56	0.35	18.13	f	78	425

## **Security**

Breaking down levels of security to different users is a must. First we start with a password protected Admin user.

```
CREATE USER Admin WITH PASSWORD 'alpaca';
GRANT SELECT, INSERT, UPDATE, DELETE
ON ALL TABLES IN SCHEMA public
TO Admin;
```

Scientists must be able to alter the Plants table in order to make changes in data to reflect the latest findings.

```
CREATE USER Scientist1 WITH PASSWORD 'science';

GRANT SELECT, INSERT, UPDATE

ON Plants

TO Scientist1;
```

A public user is created with select privileges to view certain public tables, but have no access to other tables.

```
GRANT SELECT
ON Type, Strains, Plants, Dispensaries, Effects
TO PublicUser;
```

## **Known Issues/Future Enhancements**

## Known Issues:

- The UpdateMaturity function doesn't function properly.
- The is no view to show what customers buy from what dealers in Las Vegas.

## Future Enhancements:

- A working UpdateMaturity function.
- A function that automatically inserts the plants into the Dispensary

  Plants table when they are fully matured.
- A prescriber's table.
- A price guide table.