

A Database of the Zodiac

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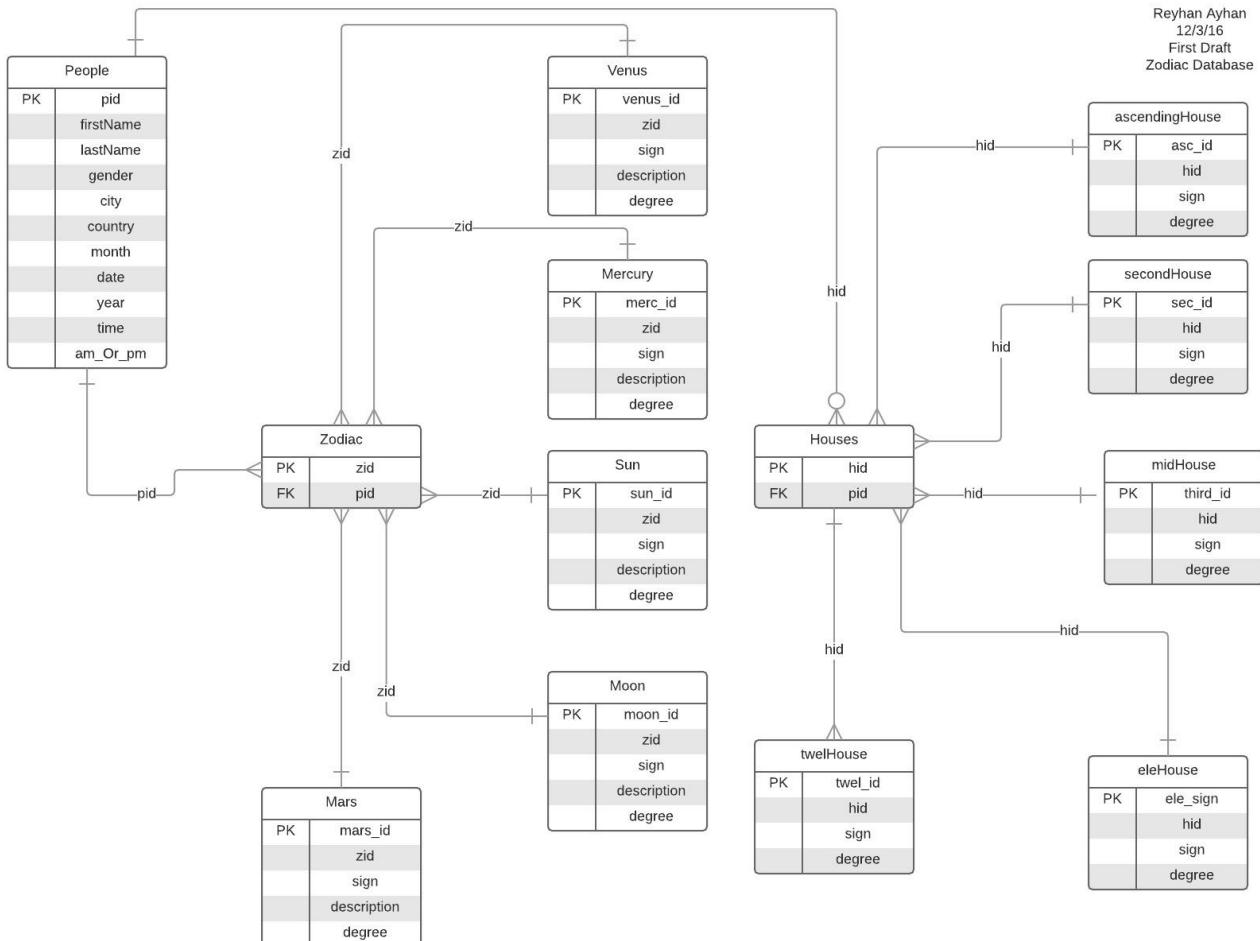
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Executive Summary

With various conversations on whether or not astrology is fan or fiction, it is still something found as a form of spiritual comfort and guidance to millions of people around the world. Through “universal powers”, astrology has become its own well developed science and this database allows to understand what the positions of the planets are when an individual is born. The factors relating to one’s birth chart and planetary placements include one’s DOB and excludes all of one’s upbringing.

To introduce the Zodiac Database, an entity relationship diagram will demonstrate the relationship between the tables that exist within this database and what key factors each table will consist of. The diagram is then followed by the details of how each of the database tables were developed. Each table will be demonstrated using sample data. To further portray the data integrity of the database, stored procedures and triggers will be shown within the presentation. Sample reports will be also be shown to show how information can be retrieved. Details about the process of implementation, any known problems, and facts that could be changed in the database for the future will also be included within this presentation.

ER Diagram



Tables

People

```
CREATE TABLE people (
    pid          serial not null unique,
    firstName    varchar(50),
    lastName     varchar(50),
    gender       char(1),
    city         varchar(50) not null,
    country      varchar(50) not null,
    month        varchar(50) not null,
    date         varchar(50) not null,
    year         int not null,
    time         time,
    am_Or_pm    char(2),
    CONSTRAINT valid_gender CHECK (gender = 'M' OR gender = 'F'),
    CONSTRAINT valid_am_OR_pm CHECK (am_Or_pm = 'AM' OR am_Or_pm = 'PM'),
    primary key(pid)
);
```

This table lists the attributes relating to the people (and harambe) involved.

pid → firstname, lastname, gender, city, country, month, date, year, time, am_Or_pm

Tables

	pid integer	firstname character varying(50)	lastname character varying(50)	gender character(1)	city character varying(50)	country character varying(50)	month character varying(50)	date character varying(50)	year integer	time time without time zone	am_or_pm character(2)
1	1	Reyhan	Ayhan	F	New York City	United States	September	16	1996	04:44:00	AM
2	2	Sara	Ramirez	F	Salt Lake City	United States	September	02	1985		
3	3	Michelle	Castelli	F	Boston	United States	August	28	1990	06:30:00	PM
4	4	Cynthia		F	Los Angeles	United States	August	30	1958	03:20:00	AM
5	5	Matthew		M	Richmond	United States	May	19	1966	02:25:00	AM
6	6				San Francisco	United States	May	27	1958		
7	8	Liam			Tampa	United States	November	1	1991	06:15:00	PM
8	9			M	Boston	United States	December	3	1962	05:53:00	AM
9	10	Chris		M	Paris	France	December	3	1998		
10	11	Jesus		M	Bethlehem	Israel	December	25	1900		
11	12	Alan	Labousieur	M	Poughkeepsie	United States	January	23	1982		
12	13	IDontGotNoName		M	Miami	United States	August	10	1990	03:17:00	AM
13	14	Harambe		M	Miami	United States	August	10	1990	03:17:00	AM
14	15	Sean	Connery	M	Miami	United States	August	25	1930	06:05:00	PM
15	7	Jimmy	Shay	M	Providence	United States	October	23	1960	07:34:00	AM

These are all the return values for the people's table. Some first or last names, gender distinction, and the time of birth are not listed as they are not necessary entries.

Tables

Zodiac

```
CREATE TABLE Zodiac (
    pid      serial not null unique references people(pid),
    zid      serial not null unique,
    primary key(zid)
);
```

The Zodiac table acts as a linking table between the People table and the planets (sun, moon, venus, and mercury).

$zid \rightarrow pid$

	pid integer	zid integer
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15

Table

Sun

```
[CREATE TABLE sun (
    sun_id  serial not null unique,
    zid      serial not null unique references zodiac(zid),
    sign    varchar(50) not null,
    degree   int not null,
    strongQualities text not null,
    weakQualities  text not null,
    primary key(sun_id),
    CONSTRAINT valid_degree CHECK (degree BETWEEN 0 and 30)
);
```

The table Sun is a table for the one of the planets including in developing one's overall horoscope.

When someone asks “What's your sign?”, this is what they're referring to.

`sun_id → zid, sign, degree,
strongQualities,
weakQualities`

Sun Table Results

	sun_id integer	zid integer	sign character varying(50)	degree integer	strongqualities text	weakqualities text
1		1	Virgo	23	Modest and shy Meticulous and reliable Practical and diligent Intelligent and analytical	Fussy and a worrier Overcritical and harsh Perfectionist and conservative
2		2	Virgo	9	Modest and shy Meticulous and reliable Practical and diligent Intelligent and analytical	Fussy and a worrier Overcritical and harsh Perfectionist and conservative
3		3	Virgo	9	Modest and shy Meticulous and reliable Practical and diligent Intelligent and analytical	Fussy and a worrier Overcritical and harsh Perfectionist and conservative
4		4	Virgo	6	Modest and shy Meticulous and reliable Practical and diligent Intelligent and analytical	Fussy and a worrier Overcritical and harsh Perfectionist and conservative
5		5	Taurus	27	Patient and reliable Warmhearted and loving Persistent and determined Placid and security loving	Jealous and possessive Resentful and inflexible Self-indulgent and greedy
6		6	Gemini	5	Adaptable and versatile Communicative and witty Intellectual and eloquent Youthful and lively	Nervous and tense Superficial and inconsistent Cunning and inquisitive
7		7	Scorpio	0	Determined and forceful Emotional and intuitive Powerful and passionate Exciting and magnetic	Jealous and resentful Compulsive and obsessive Secretive and obstinate

	sun_id integer	zid integer	sign character varying(50)	degree integer	strongqualities text	weakqualities text
8		8	Scorpio	9	Determined and forceful Emotional and intuitive Powerful and passionate Exciting and magnetic	Jealous and resentful Compulsive and obsessive Secretive and obstinate
9		9	Sagittarius	10	Optimistic and freedom-loving Jovial and good-humored Honest and straightforward Intellectual and philosophical	Blindly optimistic and careless Irresponsible and superficial Tactless and restless
10		10	Sagittarius	10	Optimistic and freedom-loving Jovial and good-humored Honest and straightforward Intellectual and philosophical	Blindly optimistic and careless Irresponsible and superficial Tactless and restless
11		11	Capricorn	2	Practical and prudent Ambitious and disciplined Patient and careful Humorous and reserved	Pessimistic and fatalistic Miserly and grudging
12		12	Aquarius	3	Friendly and humanitarian Honest and loyal Original and inventive Independent and intellectual	Intractable and contrary Perverse and unpredictable Unemotional and detached
13		13	Leo	17	Generous and warmhearted Creative and enthusiastic Broad-minded and expansive Faithful and loving	Pompous and patronizing Bossy and interfering Dogmatic and intolerant
14		14	Gemini	5	Adaptable and versatile Communicative and witty Intellectual and eloquent Youthful and lively	Nervous and tense Superficial and inconsistent Cunning and inquisitive

Tables

Venus

```
CREATE TABLE venus (
    venus_id serial not null unique,
    zid      serial not null unique references zodiac(zid),
    sign     varchar(50) not null,
    degree   int not null,
    description text not null,
    primary key(venus_id),
    CONSTRAINT valid_degree CHECK (degree BETWEEN 0 and 30)
);
```

	venus_id integer	zid integer	sign character varying(50)	degree integer	description text
1	1	1	Leo	9	People with Venus in Leo are attracted to people with big
2	2	2	Leo	9	People with Venus in Leo are attracted to people with big
3	3	3	Leo	18	People with Venus in Leo are attracted to people
4	4	4	Leo	17	People with Venus in Leo are attracted to people
5	5	5	Aries	15	An attraction to assertive and
6	6	6	Aries	15	An attraction to assertive and
7	7	7	Sagittarius	2	People with their Venus in Sagittarius are attracted to people who are open,
8	8	8	Virgo	22	Anything or anyone with a subtle,
9	9	9	Virgo	22	Anything or anyone with a subtle,
10	10	10	Sagittarius	19	People with their Venus in Sagittarius are attracted to people who are open,
11	11	11	Sagittarius	2	People with their Venus in Sagittarius are attracted to people who are open,
12	12	12	Sagittarius	2	People with their Venus in Sagittarius are attracted to people who are open,
13	13	13	Cancer	25	The Venus in Cancer person is attracted to
14	14	14	Cancer	20	The Venus in Cancer person is attracted to
15	15	15	Libra	17	The Venus in Libra person is attracted to

The Venus table is another planet table also storing the same attributes as the Sun.

venus_id → zid, sign, degree, description

Tables

Moon

```
CREATE TABLE moon (
    moon_id serial not null unique,
    zid      serial not null unique references zodiac(zid),
    sign    varchar(50) not null,
    degree   int not null,
    description text not null,
    primary key(moon_id),
    CONSTRAINT valid_degree CHECK (degree BETWEEN 0 and 30)
);
```

	moon_id integer	zid integer	sign character varying(50)	degree integer	description
1	1	1	Scorpio	2	Not the easiest sign position for a moon, the moon in Scorpio seeks to satisfy their deepest desires.
2	2	2	Aries	2	Look for the Mars in Aries person to come on strong and fast. Like an explosion, they burst forth.
3	3	3	Sagittarius	12	Free-spirited people who always find a way to live life on their terms. Those with their moon in Sagittarius are often seen as rebels or revolutionaries.
4	4	4	Pisces	12	They are extremely sensitive to their environment, and often feel like they are drowning in it.
5	5	5	Taurus	14	A style and manner that is subtle and pleasant makes the moon in Taurus person very attractive.
6	6	6	Virgo	14	The moon in Virgo person is acutely aware of everything around them. They are observers and analysts.
7	7	7	Sagittarius	9	Free-spirited people who always find a way to live life on their terms. Those with their moon in Sagittarius are often seen as rebels or revolutionaries.
8	8	8	Virgo	13	The moon in Virgo person is acutely aware of everything around them. They are observers and analysts.
9	9	9	Virgo	13	The moon in Virgo person is acutely aware of everything around them. They are observers and analysts.
10	10	10	Gemini	4	The person with a Gemini moon is truly forever young. Gemini is the lightest of the signs and those born with their moon in Gemini are often seen as carefree and fun-loving.
11	11	11	Aquarius	11	An Aquarius moon operates on a different level from the rest of the world. Their high level of intelligence and analytical skills make them stand out.
12	12	12	Aquarius	11	An Aquarius moon operates on a different level from the rest of the world. Their high level of intelligence and analytical skills make them stand out.
13	13	13	Aries	3	Those born with their moon in Aries feel a constant internal need to play the role of leader and provider.
14	14	14	Scorpio	3	Not the easiest sign position for a moon, the moon in Scorpio seeks to satisfy their deepest desires.
15	15	15	Virgo	23	The moon in Virgo person is acutely aware of everything around them. They are observers and analysts.

The Moon is another table with the same attributes as the Sun and Venus. Each of these planets represented in these tables has its own sign based on its placement (ex: Scorpio).

moon_id → zid, sign, degree, description

Tables

Mercury

```
CREATE TABLE mercury (
    merc_id serial not null unique,
    zid      serial not null unique references zodiac(zid),
    sign    varchar(50) not null,
    degree   int,
    description text,
    primary key(merc_id),
    CONSTRAINT valid_degree CHECK (degree BETWEEN 0 and 30)
);
```

	merc_id integer	zid integer	sign character varying(50)	degree integer	description text
1	1	1	Virgo	26	Those with Mercury in Virgo still prefers to take a little more time in order to
2	2	2	Leo	22	Mercury in Leo people are dramatic speakers.
3	3	3	Virgo	23	Those with Mercury in Virgo still prefers to take a little more time in order to
4	4	4	Leo	25	Mercury in Leo people are dramatic speakers.
5	5	5	Taurus	18	Patient in learning and careful in speaking,
6	6	6	Taurus	18	Patient in learning and careful in speaking,
7	7	7	Scorpio	22	Deep thought processes that focus on intent
8	8	8	Scorpio	26	Deep thought processes that focus on intent
9	9	9	Sagittarius	15	The term "think big" is never more appropriate than
10	10	10	Sagittarius	10	The term "think big" is never more appropriate than
11	11	11	Sagittarius	17	The term "think big" is never more appropriate than
12	12	12	Aquarius	18	Mercury in Aquarius can be the most flexible and the
13	13	13	Virgo	14	Those with Mercury in Virgo still prefers to take a little more time in order to
14	14	14	Gemini	7	When Mercury is in its own sign of Gemini,
15	15	15	Virgo	29	Those with Mercury in Virgo still prefers to take a little more time in order to

This is the table representing the placement of an individual's (even Harambe) planet mercury.

merc_id → zid, sign, degree, description

Tables

Houses

```
CREATE TABLE Houses (
    pid      serial unique references people(pid),
    hid      serial unique,
    primary key(pid)
);
```

The table Houses is a linking table between people and a few of the houses involved in developing a full natal chart (also known as a birth chart).

hid → pid

	pid integer	hid integer
1	1	1
2	3	3
3	4	4
4	5	5
5	8	8
6	9	9
7	13	13
8	15	15
9	7	7

Tables

ascendingHouse

```
CREATE TABLE ascendingHouse (
    asc_id    serial not null unique,
    hid       serial unique references houses(hid),
    sign      text,
    degree    int,
    primary key(asc_id),
    CONSTRAINT valid_degree CHECK (degree BETWEEN 0 and 30)
);
```

Houses like the ascending house require not only one's date, time, year, and location of birth, but one's birth time as well. The reason why there less return values is because not every individual entered their birth time disallowing them from having their placements in the houses read.

asc_id → hid, sign, degree

	asc_id integer	hid integer	sign text	degree integer
1	1	1	Leo	22
2	3	3	Aquarius	15
3	4	4	Cancer	27
4	5	5	Pisces	6
5	6	7	Pisces	6
6	7	9	Scorpio	27
7	8	13	Gemini	29
8	9	15	Capricorn	6

Tables

secHouse

```
CREATE TABLE secHouse (
    sec_id    serial not null unique,
    hid       serial unique references houses(hid),
    sign      text,
    degree    int,
    primary key(sec_id),
    CONSTRAINT valid_degree CHECK (degree BETWEEN 0 and 30)
);
```

This is the second house out
of all the twelve houses in
astrology.

sec_id → hid, sign, degree

	sec_id integer	hid integer	sign text	degree integer
1	1	1	Virgo	14
2	3	3	Aries	4
3	4	4	Leo	19
4	5	5	Aries	21
5	6	7	Aries	21
6	7	9	Sagittarius	28
7	8	13	Cancer	22
8	9	15	Pisces	26

Tables

thirdHouse

```
CREATE TABLE thirdHouse (
    third_id    serial not null unique,
    hid         serial unique references houses(hid),
    sign        text,
    degree      int,
    primary key(third_id),
    CONSTRAINT valid_degree CHECK (degree BETWEEN 0 and 30)
);
```

	third_id integer	hid integer	sign text	degree integer
1	1	1	Libra	12
2	3	3	Taurus	10
3	4	4	Virgo	15
4	5	5	Taurus	22
5	6	7	Taurus	22
6	7	9	Aquarius	5
7	8	13	Leo	17
8	9	15	Aries	22

This is the third house out of all the houses. The degree represents how close/far away the placement of your sign is to the sign that comes before it (ex: Libra is 12 degrees away from Virgo).

third_id → hid, sign, degree

Tables

midHouse

This is the midheaven house represented as the midHouse on this database.

mid_id → hid, sign, degree

```
CREATE TABLE midHouse (
    mid_id    serial not null unique,
    hid        serial unique references houses(hid),
    sign      text,
    degree    int,
    primary key(mid_id),
    CONSTRAINT valid_degree CHECK (degree BETWEEN 0 and 30)
);
```

	mid_id integer	hid integer	sign text	degree integer
1	1	1	Taurus	15
2	3	3	Sagittarius	5
3	4	4	Aries	16
4	5	5	Sagittarius	16
5	6	7	Sagittarius	16
6	7	9	Virgo	12
7	8	13	Pisces	16
8	9	15	Scorpio	18

Tables

eleHouse

```
[CREATE TABLE eleHouse (
    ele_id    serial not null unique,
    hid       serial unique references houses(hid),
    sign      text,
    degree    int,
    primary key(ele_id),
    CONSTRAINT valid_degree CHECK (degree BETWEEN 0 and 30)
);
```

This is the table representing the eleventh house following the midheaven house.

ele_id → hid, sign, degree

	ele_id integer	hid integer	sign text	degree integer
1	1	1	Gemini	20
2	3	3	Sagittarius	5
3	4	4	Taurus	21
4	5	5	Capricorn	8
5	6	7	Capricorn	8
6	7	9	Libra	13
7	8	13	Aries	20
8	9	15	Sagittarius	6

Tables

twelHouse

```
CREATE TABLE twelHouse (
    twel_id serial not null unique,
    hid      serial unique references houses(hid),
    sign     text,
    degree   int,
    primary key(twel_id),
    CONSTRAINT valid_degree CHECK (degree BETWEEN 0 and 30)
);
```

The *twelHouse* tables

represents the twelfth house
in the zodiac and is the last
table.

twel_id → hid, sign, degree

	twel_id integer	hid integer	sign text	degree integer
1	1	1	Cancer	23
2	3	3	Capricorn	17
3	4	4	Gemini	26
4	5	5	Aquarius	2
5	6	7	Aquarius	2
6	7	9	Scorpio	7
7	8	13	Taurus	26
8	9	15	Sagittarius	20

Views

```
CREATE OR REPLACE VIEW getVenus AS
SELECT p.pid, v.sign , firstName, lastname
FROM people p
INNER JOIN zodiac z
ON p.pid = z.pid
INNER JOIN venus v
ON v.venus_id = z.zid;
```

```
select *
from getVenus;
```

	pid integer	sign character varying(50)	firstname character varying(50)	lastname character varying(50)
1	1	Leo	Reyhan	Ayhan
2	2	Leo	Sara	Ramirez
3	3	Leo	Michelle	Castelli
4	4	Leo	Cynthia	
5	5	Aries	Matthew	
6	6	Aries		
7	7	Sagittarius	Jimmy	Shay
8	8	Virgo	Liam	
9	9	Virgo		
10	10	Sagittarius	Chris	
11	11	Sagittarius	Jesus	
12	12	Sagittarius	Alan	Labouseur
13	13	Cancer	IDontGotNoName	
14	14	Cancer	Harambe	
15	15	Libra	Sean	Connery

This view displays every person's venus sign.

Views

```
CREATE OR REPLACE VIEW signCity AS
SELECT p.pid, p.firstname, s.sign, p.city
FROM people p
INNER JOIN zodiac z
ON p.pid = z.pid
INNER JOIN sun s
ON z.zid = s.zid
ORDER BY p.city ;

select *
FROM signCity;
```

This view displays every person's sign and city they're from.

	pid integer	firstname character varying(50)	sign character varying(50)	city character varying(50)
1	11	Jesus	Capricorn	Bethlehem
2	9		Sagittarius	Boston
3	3	Michelle	Virgo	Boston
4	4	Cynthia	Virgo	Los Angeles
5	14	Harambe	Gemini	Miami
6	13	IDontGotNoName	Leo	Miami
7	15	Sean	Virgo	Miami
8	1	Reyhan	Virgo	New York City
9	10	Chris	Sagittarius	Paris
10	12	Alan	Aquarius	Poughkeepsie
11	7	Jimmy	Scorpio	Providence
12	5	Matthew	Taurus	Richmond
13	2	Sara	Virgo	Salt Lake City
14	6		Gemini	San Francisco
15	8	Liam	Scorpio	Tampa

Reports

```
select p.firstname, p.lastname, p.pid, p.time, a.sign as Ascending_Sign, sc.sign as Second_Sign
FROM people p
INNER JOIN zodiac z
ON p.pid = z.pid
INNER JOIN sun s
ON z.zid = s.sun_id
INNER JOIN venus v
ON z.zid = v.venus_id
LEFT OUTER JOIN ascendingHouse a
ON z.zid = a.asc_id
LEFT OUTER JOIN secHouse sc
ON z.zid = sc.sec_id ;
```

This report shows the ascending and second house signs of every person. Some don't have either sign because they didn't include their time of birth.

	firstname character varying(50)	lastname character varying(50)	pid integer	time time without time zone	ascending_sign text	second_sign text
1	Reyhan	Ayhan	1	04:44:00	Leo	Virgo
2	Sara	Ramirez	2			
3	Michelle	Castelli	3	06:30:00	Aquarius	Aries
4	Cynthia		4	03:20:00	Cancer	Leo
5	Matthew		5	02:25:00	Pisces	Aries
6			6		Pisces	Aries
7	Jimmy	Shay	7	07:34:00	Scorpio	Sagittarius
8	Liam		8	06:15:00	Gemini	Cancer
9			9	05:53:00	Capricorn	Pisces
10	Chris		10			
11	Jesus		11			
12	Alan	Labouseur	12			
13	IDontGotNoName		13	03:17:00		
14	Harambe		14	03:17:00		
15	Sean	Connery	15	06:05:00		

Reports

```
SELECT p.firstname, s.sign, m.sign, v.sign  
FROM people p, zodiac z, sun s, mercury m, venus v  
WHERE p.pid = z.zid AND z.zid = s.sun_id  
AND z.zid = m.merc_id AND z.zid = v.venus_id  
ORDER BY p.firstname;
```

This report shows every person's sun, mercury, and venus signs.

	firstname character varying(50)	sign character varying(50)	sign character varying(50)	sign character varying(50)
1	Alan	Aquarius	Aquarius	Sagittarius
2	Chris	Sagittarius	Sagittarius	Sagittarius
3	Cynthia	Virgo	Leo	Leo
4	Harambe	Gemini	Gemini	Cancer
5	IDontGotNoName	Leo	Virgo	Cancer
6	Jesus	Capricorn	Sagittarius	Sagittarius
7	Jimmy	Scorpio	Scorpio	Sagittarius
8	Liam	Scorpio	Scorpio	Virgo
9	Matthew	Taurus	Taurus	Aries
10	Michelle	Virgo	Virgo	Leo
11	Reyhan	Virgo	Virgo	Leo
12	Sara	Virgo	Leo	Leo
13	Sean	Virgo	Virgo	Libra
14		Sagittarius	Sagittarius	Virgo
15		Gemini	Taurus	Aries

Stored Procedure

```
CREATE OR REPLACE FUNCTION virgoFrequency (varchar(100), REFCURSOR)
RETURNS refcursor as $$

DECLARE
    peopleNameInput varchar(100) := $1;
    resultset REFCURSOR := $2;

BEGIN
    open resultset for
        SELECT count(peopleNameInput)
        FROM people p
        INNER JOIN zodiac z
        ON p.pid = z.pid
        INNER JOIN sun s
        ON z.zid = s.sun_id
        WHERE peopleNameInput = p.firstname;
    return resultset;
end;
$$
language plpgsql;

SELECT virgoFrequency('Reyhan', 'results');
FETCH ALL FROM results;
```

	count	bigint
1	1	1

This stored procedure calculates the number of people who have Virgo as their sun sign. The query then selects the Virgos with the name Reyhan.

Triggers

```
CREATE OR REPLACE FUNCTION monthCheck() RETURNS TRIGGER AS $people$  
  
BEGIN  
    IF NEW.year < (1900)  
    THEN  
        RAISE EXCEPTION 'Exceeds year to calculate accurate natal chart %', NEW.year  
        USING HINT = 'Please choose a year above: ' || (1900);  
    END IF;  
    return NEW;  
END;  
$people$ LANGUAGE plpgsql;
```

```
CREATE TRIGGER triggerMonthCheck AFTER INSERT OR UPDATE  
ON people  
FOR EACH ROW EXECUTE PROCEDURE monthCheck();
```

```
INSERT INTO people(pid, firstname, lastname, gender, city, country, month, date, year, time, am_or_pm) VALUES  
(16, 'sarah', 'henderson', 'F', 'Salt Lake City', 'United States', 'January', '16', '1890', null, 'AM');
```

This trigger test whether or not the year the person has entered for their date of birth is realistic and valid.

Trigger Result

When the triggers runs invalid information, this is the error returned.

```
ERROR: Exceeds year to calculate accurate natal chart 1890
```

```
HINT: Please choose a year above: 1900
```

```
***** Error *****
```

```
ERROR: Exceeds year to calculate accurate natal chart 1890
```

```
SQL state: P0001
```

```
Hint: Please choose a year above: 1900
```

Security

```
DROP ROLE HOUSESCONTROL;  
CREATE ROLE admin;  
REVOKE ALL PRIVILEGES ON People FROM admin;  
REVOKE ALL PRIVILEGES ON Zodiac FROM admin;  
REVOKE ALL PRIVILEGES ON Sun FROM admin;  
REVOKE ALL PRIVILEGES ON Moon FROM admin;  
REVOKE ALL PRIVILEGES ON Venus FROM admin;  
REVOKE ALL PRIVILEGES ON Mercury FROM admin;  
REVOKE ALL PRIVILEGES ON Houses FROM admin;  
REVOKE ALL PRIVILEGES ON AscendingHouse FROM admin;  
REVOKE ALL PRIVILEGES ON SecHouse FROM admin;  
REVOKE ALL PRIVILEGES ON ThirdHouse FROM admin;  
REVOKE ALL PRIVILEGES ON MidHouse FROM admin;  
REVOKE ALL PRIVILEGES ON EleHouse FROM admin;  
REVOKE ALL PRIVILEGES ON TwelHouse FROM admin;
```

The admin user is granted access to everything within the database.

```
GRANT ALL PRIVILEGES ON People TO admin;  
GRANT ALL PRIVILEGES ON Zodiac TO admin;  
GRANT ALL PRIVILEGES ON Sun TO admin;  
GRANT ALL PRIVILEGES ON Moon TO admin;  
GRANT ALL PRIVILEGES ON Venus TO admin;  
GRANT ALL PRIVILEGES ON Mercury TO admin;  
GRANT ALL PRIVILEGES ON Houses TO admin;  
GRANT ALL PRIVILEGES ON AscendingHouse TO admin;  
GRANT ALL PRIVILEGES ON SecHouse TO admin;  
GRANT ALL PRIVILEGES ON ThirdHouse TO admin;  
GRANT ALL PRIVILEGES ON MidHouse TO admin;  
GRANT ALL PRIVILEGES ON EleHouse TO admin;  
GRANT ALL PRIVILEGES ON TwelHouse TO admin;
```

Security

```
CREATE ROLE mainSigns;  
REVOKE ALL PRIVILEGES ON People FROM mainSigns;  
REVOKE ALL PRIVILEGES ON Zodiac FROM mainSigns;  
REVOKE ALL PRIVILEGES ON Sun FROM mainSigns;  
REVOKE ALL PRIVILEGES ON Moon FROM mainSigns;  
REVOKE ALL PRIVILEGES ON Venus FROM mainSigns;  
REVOKE ALL PRIVILEGES ON Mercury FROM mainSigns;  
REVOKE ALL PRIVILEGES ON Houses FROM mainSigns;  
REVOKE ALL PRIVILEGES ON AscendingHouse FROM mainSigns;  
REVOKE ALL PRIVILEGES ON SecHouse FROM mainSigns;  
REVOKE ALL PRIVILEGES ON ThirdHouse FROM mainSigns;  
REVOKE ALL PRIVILEGES ON MidHouse FROM mainSigns;  
REVOKE ALL PRIVILEGES ON EleHouse FROM mainSigns;  
REVOKE ALL PRIVILEGES ON TwelHouse FROM mainSigns;
```

```
GRANT SELECT, UPDATE ON People TO mainSigns;  
GRANT SELECT, UPDATE ON Zodiac TO mainSigns;  
GRANT SELECT, UPDATE ON Sun TO mainSigns;  
GRANT SELECT, UPDATE ON Moon TO mainSigns;  
GRANT SELECT, UPDATE ON Houses TO mainSigns;  
GRANT SELECT, UPDATE ON AscendingHouse TO mainSigns;  
GRANT SELECT, UPDATE ON SecHouse TO mainSigns;  
GRANT SELECT, UPDATE ON ThirdHouse TO mainSigns;  
GRANT SELECT, UPDATE ON MidHouse TO mainSigns;  
GRANT SELECT, UPDATE ON EleHouse TO mainSigns;  
GRANT SELECT, UPDATE ON TwelHouse TO mainSigns;
```

The users only concerned about the three primary signs (the sun, moon, and ascending) and their house placements will be granted access to only the tables involving those signs.

Implementation, Known Problems, Future Enhancements

The implementation of the database was not very difficult since it simply involved inputting information regarding an individual's birth. Some problems I did face in the process, however, was attempting to format the database in a way where all the information was useful and the tables were able to interact together using tools like stored procedures and triggers to make things interesting. Some problems I faced initially was not providing each individual table with its own ID and attempting to make sub tables such as "locationCoordinates" to further define an individual's location of birth. I decided to not create those tables for they would have proved little to no use when using the data. To further enhance my database for the future, I would add more data to prevent from feeling limited when developing more intricate and precise queries. This database resembles what several online birth chart engines provide but none of them provide the ability to pick and choose what data a user would want to see from their chart.