NOTE: data may not accurate

Complete the following tasks (using postgres database:

 You should create a database named universe COMMAND: create database universe;

- Be sure to connect to your database with \c universe. Then, you should add tables named galaxy, star, planet, and moon

```
COMMAND:
      create table galaxy(
        galaxy_id serial primary key,
        name varchar(100) not null unique,
        number_of_stars_in_billions INT,
        description TEXT,
        year discovered NUMERIC,
        is spherical BOOLEAN,
      create table galaxy_types (
        galaxy_types_id serial primary key,
        name varchar(100) not null unique,
        galaxy_id INT not null
      create table star(
        star_id serial primary key,
        name varchar(100) not null unique,
        astronomical_name TEXT,
        meaning TEXT,
        apparent magnitude NUMERIC,
        absolute_magnitude NUMERIC
        distance_light-year INT,
        galaxy_id INT not null
      );
      create table planet(
        planet_id serial primary key,
        name varchar(100) not null unique,
        distance_from_earth INT,
        description TEXT,
        has_life BOOLEAN,
        star id INT not null
      create table moon(
        moon_id serial primary key,
        name varchar(100) not null unique,
        year_discovered INT,
        diameter_km NUMERIC,
        planet id INT not null
      );
```

Each table should have a primary key

Each primary key should automatically increment

Each table should have a name column

- You should use the INT data type for at least two columns that are not a primary or foreign key

You should use the NUMERIC data type at least once

You should use the TEXT data type at least once

You should use the BOOLEAN data type on at least two columns

Each "star" should have a foreign key that references one of the rows in galaxy COMMAND: alter table only public.star add constraint fk foreign key(galaxy_id) references public.galaxy(galaxy_id);

- Each "planet" should have a foreign key that references one of the rows in star COMMAND: alter table only public.planet add constraint fk foreign key(star id) references public.star(star id);

- Each "moon" should have a foreign key that references one of the rows in planet COMMAND: alter table only moon add constraint moon_id foreign key(planet_id) references planet(planet_id);

Your database should have at least five tables

Each table should have at least three rows

The galaxy and star tables should each have at least six rows

COMMAND:

Insert into galaxy(number_of_stars_in_billions, description, year_discovered, is_spherical, name) values (200, 'The Milky Way is the galaxy that includes the Solar System.', 1610, TRUE, "Milky Way"), (100, 'The Whirlpool Galaxy is an interacting grand-design spiral with Seyfert 2 active galactic nucleus.', 1773, TRUE, 'Whirlpool',), (0.001, 'The Tadpole, also is a disrupted barred spiral galaxy.', 1982, TRUE, 'Tadpole'),...;

Galaxy

Name	number_of_stars_ in_billions	Description	year_discovered	is_spherical
Milky Way	200	The Milky Way is the galaxy that includes the Solar System.	1610	TRUE
Whirlpool	100	The Whirlpool Galaxy is an interacting grand- design spiral with Seyfert 2 active galactic nucleus.	1773	TRUE
Tadpole	0.001	The Tadpole, also is a disrupted barred spiral galaxy.	1982	TRUE
Andromeda	1,000	The Andromeda Galaxy is a barred spiral galaxy is the nearest major galaxy to the Milky Way.	964	TRUE
Messier 49	200	Messier 49 is a giant elliptical galaxy about 56 million light-years away in the equatorial constellation Virgo.	1777	FALSE
Sombrero	100	It is a spiral galaxy located in the constellation Virgo	1781	TRUE
Small Magellanic Cloud	3	Small Magellanic Cloud is a dwarf galaxy near the Milky Way	1519	FALSE

Galaxy types

Name	galaxy_id
Spiral	milky_way_id, whirlpool_id, tadpole_id

Name	galaxy_id
Elliptical	messier_49_id
Irregular	megellanic_cloud_id

Star

Name	astronomic al_name	meaning	apparent_m agnitude	absolute_m agnitude	distance_lig ht_years	galaxy_id
Sirius	Alpha Canis Majoris	scorching	-1.44	1.45	9	1
Canopus	Alpha Carinae	Pilot of the ship	-0.62	-5.53	313	1
Arcturus	Alpha Bootis	Guardian of the bear	-0.05	-0.31	37	1
Rigel Kentaurus	Alpha Centauri	Foot of the centaur	-0.01	4.34	4	1
Vega	Alpha Lyrae	Eagle or vulture	0.03	0.58	25	1
Capella	Alpha Aurigae	Little she- goat	0.08	-0.48	42	1
Rigel	Beta Orionis	Foot	0.18	-6.69	773	1

The planet table should have at least 12 rows

name	distance_from_ea rth_in_mi	Description	has_life	star_id
Mercury	113.65	The smallest planet in our solar system and closest to the Sun—is only slightly larger than Earth's Moon.	FALSE	3
Earth	0	Earth—our home planet—is the only place we know of so far that's inhabited by living things.	TRUE	2

name	distance_from_ea rth_in_mi	Description	has_life	star_id
Jupiter	480.32	Jupiter is more than twice as massive than the other planets of our solar system combined.	FALSE	4
Uranus	1867.3	Uranus—seventh planet from the Sun—rotates at nearly 90-degree angle from the plane of its orbit.	FALSE	7
Venus	35.838	Venus spins slowly in the opposite direction from most planets.	FALSE	8
Mars	215.01	Mars is a dusty, cold, desert world with a very thin atmosphere.	FALSE	5
Saturn	836.27	Adorned with a dazzling, complex system of icy rings, Saturn is unique in our solar system.	FALSE	2
Neptune	2735.5	Neptune—the eighth and most distant major planet orbiting our Sun—is dark, cold and whipped by supersonic winds.	FALSE	3
Pluto	3141.5	Pluto is a dwarf planet in the Kuiper Belt, a ring of bodies beyond the orbit of Neptune.	FALSE	6
Eris	10122854	Eris is the most massive and second-largest known dwarf planet in the Solar System	FALSE	7

name	distance_from_ea rth_in_mi	Description	has_life	star_id
Haumea	4644261736.45908	Haumea is a dwarf planet located beyond Neptunes's orbit.	FALSE	4
Ceres	254170222.15263	Ceres is a dwarf planet in the asteroid belt between the orbits of Mars and Jupiter.	FALSE	2

The moon table should have at least 20 rows

Name	year_discovered	diameter_km	planet_id
Ganymede	1610	5268.2	jupiter_row
Titan	1655	5151.0	saturn_row
Callisto	1610	4816.8	jupiter_row
lo	1610	3636.2	jupiter_row
The Moon		3474.2	earth_row
Europa	1610	3121.4	jupiter_row
Triton	1846	2706.8	neptune_row
Titania	1787	1577.8	uranus_row
Rhea	1672	1529.0	saturn_row
Oberon	1787	1522.8	uranus_row
lapetus	1671	1469.0	saturn_row
Charon	1978	1207.2	pluto_row
Umbriel	1851	1169.4	uranus_row
Ariel	1851	1157.8	uranus_row
Dione	1684	1125.0	saturn_row
Tethys	1684	1062.6	saturn_row
Dysnomia	2005	700	eris_row

Name	year_discovered	diameter_km	planet_id
Enceladus	1789	504.6	saturn_row
Miranda	1948	471.6	uranus_row
Proteus	1989	420	neptune_row

Each table should have at least three columns

The galaxy, star, planet, and moon tables should each have at least five columns

At least two columns per table should not accept NULL values

At least one column from each table should be required to be UNIQUE

All columns named name should be of type VARCHAR

- Each primary key column should follow the naming convention table_name_id. For example, the moon table should have a primary key column named moon_id

Each foreign key column should have the same name as the column it is referencing