galaxy

id (SERIAL PRIM. KEY),
name (VARCHAR(10)),
description (TEXT),
has_life (BOOLEAN),
is_spherical (BOOLEAN),
age_in_millions_of_years (INT),
galaxy_types (VARCHAR(10)),
distance_from_earth (NUMERIC(10,2))

```
CREATE TABLE galaxy (galaxy_id SERIAL
PRIMARY KEY, name VARCHAR(10) UNIQUE
NOT NULL, description TEXT UNIQUE, has_life
BOOLEAN NOT NULL, is_spherical BOOLEAN,
age_in_millions_of_years INT, galaxy_types
VARCHAR(10), distance_from_earth
NUMERIC(10,2));
```

```
INSERT INTO galaxy(name, description, has_life, is_spherical, age_in_millions_of_years,
galaxy_types, distance_from_earth) VALUES
('M101', 'Pinwheel galaxy was captured by the Hubble Space Telescope.',true, false, 2, 'Spiral',
103.23),
('NGC 2865', 'Hubble Space Telescope is an elliptical galaxy',true, false, 10, 'Eliptical', 150.13),
('NGC 4886', 'Scientists have a few theories about how lenticular galaxies evolved.',false,
false, 8, 'Lenticular', 98.22),
('NGC 5264', 'Astronomers think these galaxies odd shapes are sometimes the result of
interactions with others.',false, false, 20, 'Irregular', 88.31),
('NCG 5728,', 'Seyfert galaxies first identified in 1943 by American astronomer Carl
Seyfert',true, false, 15, 'Seyfert', 43.23),
('Mark 231', 'Quasars are the most luminous type of active galaxy.',true, true, 1, 'Quasars',
10.12);
```

star

id (SERIAL PRIM. KEY),
name (VARCHAR(10)),
description (TEXT),
has_life (BOOLEAN),
is_spherical (BOOLEAN),
age_in_millions_of_years (INT),
distance_from_earth (NUMERIC(10,2))
galaxy_id INT FOREIGN KEY REF. galaxy

```
CREATE TABLE star (star_id SERIAL PRIMARY
KEY, name VARCHAR(10) UNIQUE NOT NULL,
description TEXT UNIQUE, has_life BOOLEAN
NOT NULL, is_spherical BOOLEAN,
age_in_millions_of_years INT,
distance_from_earth NUMERIC(10,2),galaxy_id
INT,CONSTRAINT fk_galaxy_id
FOREIGN KEY(galaxy_id)
REFERENCES galaxy(galaxy_id));
```

```
INSERT INTO star (name, description, has_life, is_spherical, age_in_millions_of_years,
distance_from_earth, galaxy_id) VALUES
('star1', 'some star 1', false, true, 10, 10.12, 1),
('star2', 'some star 2', false, true, 4, 12.98, 5),
('star3', 'some star 3', false, true, 5, 43.87, 4),
('star4', 'some star 4', false, true, 7, 87.54, 3),
('star5', 'some star 5', false, true, 2, 99.45, 2),
('star6', 'some star 6', false, true, 11, 89.23, 1),
('star7', 'some star 7', false, true, 8, 54.12, 6),
('star8', 'some star 8', false, true, 9, 32.1, 4);
```

planet

id (SERIAL PRIM. KEY),
name (VARCHAR(10)),
description (TEXT),
has_life (BOOLEAN),
is_spherical (BOOLEAN),
age_in_millions_of_years (INT),
planet_types (VARCHAR(10)),
distance_from_earth (NUMERIC(10,2))
star_id INT FOREIGN KEY REF. star

```
CREATE TABLE planet (planet_id SERIAL
PRIMARY KEY, name VARCHAR(10) UNIQUE
NOT NULL, description TEXT UNIQUE, has_life
BOOLEAN NOT NULL, is_spherical BOOLEAN,
age_in_millions_of_years INT, planet_types
VARCHAR(10), distance_from_earth
NUMERIC(10,2), star_id INT, CONSTRAINT
fk_star_id FOREIGN KEY(star_id)
REFERENCES star(star_id));
```

```
INSERT INTO planet (name, description, has_life, is_spherical, age_in_millions_of_years,
planet_types, distance_from_earth, star_id) VALUES
('plan1', 'planet 1', true, true, 10, 'some1', 10, 1),
('plan2', 'planet 2', true, true, 10, 'some3', 10, 1),
('plan3', 'planet 3', true, true, 10, 'some3', 10, 2),
('plan4', 'planet 4', true, true, 10, 'some4', 10, 3),
('plan5', 'planet 5', true, true, 10, 'some5', 10, 4),
('plan6', 'planet 6', true, true, 10, 'some6', 10, 5),
('plan7', 'planet 7', true, true, 10, 'some7', 10, 6),
('plan8', 'planet 8', true, true, 10, 'some8', 10, 6),
('plan9', 'planet 9', true, true, 10, 'some9', 10, 7),
('plan10', 'planet 10', true, true, 10, 'some10', 10, 8),
('plan11', 'planet 11', true, true, 10, 'some11', 10, 8),
('plan12', 'planet 12', true, true, 10, 'some12', 10, 7);
```

moon

id (SERIAL PRIM. KEY),
name (VARCHAR(10)),
description (TEXT),
has_life (BOOLEAN),
is_spherical (BOOLEAN),
age_in_millions_of_years (INT),
distance_from_earth (NUMERIC(10,2))
planet_id INT FOREIGN KEY REF. planet

```
CREATE TABLE moon (moon_id SERIAL
PRIMARY KEY, name VARCHAR(10) UNIQUE
NOT NULL, description TEXT UNIQUE, has_life
BOOLEAN NOT NULL, is_spherical BOOLEAN,
age_in_millions_of_years INT,
distance_from_earth NUMERIC(10,2), planet_id
INT, CONSTRAINT fk_planet_id FOREIGN
KEY(planet_id) REFERENCES
planet(planet_id));
```

```
INSERT INTO moon(name, description, has_life, is_spherical, age_in_millions_of_years, distance_from_earth,
planet_id) VALUES
('m1','moon1', true, true, 1, 1, 13),
('m2','moon2', true, true, 1, 1, 20),
('m3','moon3', true, true, 1, 1, 20),
('m4','moon4', true, true, 1, 1, 21),
('m5','moon5', true, true, 1, 1, 22),
('m6','moon6', true, true, 1, 1, 23),
('m7','moon7', true, true, 1, 1, 14),
('m8','moon8', true, true, 1, 1, 14),
('m9','moon9', true, true, 1, 1, 15),
('m10','moon10', true, true, 1, 1, 15),
('m11','moon11', true, true, 1, 1, 23),
('m12','moon12', true, true, 1, 1, 16),
('m13','moon13', true, true, 1, 1, 17),
('m14','moon14', true, true, 1, 1, 17),
('m15','moon15', true, true, 1, 1, 18),
('m16','moon16', true, true, 1, 1, 19),
('m17','moon17', true, true, 1, 1, 20),
('m18','moon18', true, true, 1, 1, 21),
('m19','moon19', true, true, 1, 1, 22),
('m20','moon20', true, true, 1, 1, 23),
('m21','moon21', true, true, 1, 1, 24);
```

alien

id (SERIAL PRIM. KEY),
name (VARCHAR(10)),
description (TEXT),
has_life (BOOLEAN),
is_spherical (BOOLEAN),
age_in_millions_of_years (INT),
distance_from_earth (NUMERIC(10,2))
planet_id INT FOREIGN KEY REF. planet

```
CREATE TABLE alien (alien_id SERIAL
PRIMARY KEY, name VARCHAR(10) UNIQUE
NOT NULL, description TEXT UNIQUE, has_life
BOOLEAN NOT NULL, is_spherical BOOLEAN,
age_in_millions_of_years INT,
distance_from_earth NUMERIC(10,2), moon_id
INT, CONSTRAINT fk_moon_id FOREIGN
KEY(moon_id) REFERENCES moon(moon_id));
```

```
INSERT INTO alien(name, description, has_life,
is_spherical, age_in_millions_of_years,
distance_from_earth, moon_id) VALUES
('A1','alien1', true, false, 1, 1, 1),
('A2','alien2', true, false, 1, 1, 4),
('A3','alien3', true, false, 1, 1, 2);
```