galaxy	
galaxy_id 🖉	INT
galaxy_name	VARCHAR(100) NN
galaxy_type	TEXT NN
description_galaxy	TEXT
distance_from_earth	DECIMAL
diameter_kly	DECIMAL(10,2) NN
has_supernovae	BOOLEAN
has_nebula	BOOLEAN
mass_solar_galaxy	DECIMAL(15,2)
age_billion	INT
discovery_year_galaxy	INT

nebula	
nebula_id 🖉	INT
galaxy_id	INT NN
nebula_name	VARCHAR(100) NN
nebula_type	VARCHAR(50) NN
diameter_ly	DECIMAL(10,2) NN
distance_ly	DECIMAL(10,2) NN
luminosity	DECIMAL(15,2)
composition_nebula	TEXT
discovery_year	INT
location_nebula	TEXT
photo_url	TEXT

star star_id 🖉 INT — INT NN — galaxy_id VARCHAR(100) NN star_name TEXT NN star_type VARCHAR(10) NN spectral_type DECIMAL(10,2) NN temperature_k DECIMAL(10,2) luminosity DECIMAL(10,2) mass_solar BOOLEAN NN main_sequence rotation_period_days DECIMAL(10,2)

mission	
mission_id 🖉	INT
mission_name	VARCHAR(100) NN
mission_type	VARCHAR(100) NN
agency	VARCHAR(100) NN
launch_date	DATE NN
budget	DECIMAL(15,2)
description_mission	TEXT

planet $planet_id \mathcal{O}$ INT — INT NN < star_id VARCHAR(100) NN planet_name orbital_period_days DECIMAL(10,2) NN BOOLEAN is_exoplanet DECIMAL(12,2) NN radius_km DECIMAL(10,2) gravity_m_s2 has_life BOOLEAN NN atmosphere TEXT surface_temperature_c DECIMAL(10,2) INT discovery_year DECIMAL(12,2) distance_from_star_km

	planet_mission	
	planet_mission_id 🖉	INT
	planet_id	INT NN
~	mission_id	INT NN
	planet_mission_name	VARCHAR(100) NN
	mission_status	VARCHAR(50) NN
	start_date	DATE NN
	end_date	DATE
	results	TEXT

	moon	
	moon_id ${\cal O}$	INT
	name	VARCHAR(100) NN
~	planet_id	INT NN
	radius_km	DECIMAL(10,2) NN
	orbital_period_days	DECIMAL(10,2) NN
	tidally_locked	BOOLEAN NN
	composition_moon	TEXT
	distance_from_planet_km	DECIMAL(10,2)



galaxy	
galaxy_id 🖉	INT
galaxy_name	VARCHAR(100) NN
galaxy_type	TEXT NN
description_galaxy	TEXT
distance_from_earth	DECIMAL
diameter_kly	DECIMAL(10,2) NN
has_supernovae	BOOLEAN
has_nebula	BOOLEAN
mass_solar_galaxy	DECIMAL(15,2)
age_billion	INT
discovery_year_galaxy	INT

nebula	
nebula_id 🖉	INT
galaxy_id	INT NN
nebula_name	VARCHAR(100) NN
nebula_type	VARCHAR(50) NN
diameter_ly	DECIMAL(10,2) NN
distance_ly	DECIMAL(10,2) NN
luminosity	DECIMAL(15,2)
composition_nebula	TEXT
discovery_year	INT
location_nebula	TEXT
photo_url	TEXT

	Stai	
	star_id 🛭	INT -
*	galaxy_id	INT NN
	star_name	VARCHAR(100) NN
	star_type	TEXT NN
	spectral_type	VARCHAR(10) NN
	temperature_k	DECIMAL(10,2) NN
	luminosity	DECIMAL(10,2)
	mass_solar	DECIMAL(10,2)
	main_sequence	BOOLEAN NN
	rotation_period_days	DECIMAL(10,2)

mission	
mission_id 🖉	INT -
mission_name	VARCHAR(100) NN
mission_type	VARCHAR(100) NN
agency	VARCHAR(100) NN
launch_date	DATE NN
budget	DECIMAL(15,2)
description_mission	TEXT

planet	
planet_id 🖉	INT
star_id	INT NN
planet_name	VARCHAR(100) NN
orbital_period_days	DECIMAL(10,2) NN
is_exoplanet	BOOLEAN
radius_km	DECIMAL(12,2) NN
gravity_m_s2	DECIMAL(10,2)
has_life	BOOLEAN NN
atmosphere	TEXT
surface_temperature_c	DECIMAL(10,2)
discovery_year	INT
distance_from_star_km	DECIMAL(12,2)

	planet_mission	
	planet_mission_id 🖉	INT
	planet_id	INT NN
*	mission_id	INT NN
	planet_mission_name	VARCHAR(100) NN
	mission_status	VARCHAR(50) NN
	start_date	DATE NN
	end_date	DATE
	results	TEXT

	moon	
	moon_id 🖉	INT
	name	VARCHAR(100) NN
*	planet_id	INT NN
	radius_km	DECIMAL(10,2) NN
	orbital_period_days	DECIMAL(10,2) NN
	tidally_locked	BOOLEAN NN
	composition_moon	TEXT
	distance_from_planet_km	DECIMAL(10,2)

