Code & Output

Code:

```python
# Julia Cuellar
# DSC 680
# Star Wars Chatbot

import numpy as np
import pandas as pd
import requests
import json
import sqlite3
import openpyxl
import functools
from functools import reduce
import urllib.request as urllib2
from pprint import pprint
from pip._vendor.distlib.compat import raw_input
import chatterbot
from chatterbot import ChatBot
from chatterbot.trainers import ListTrainer
from chatterbot.trainers import ChatterBotCorpusTrainer


# Read Star Wars character data
def read_file():
    char = pd.read_csv('characters.csv')
    print('Character data:\n', char)


# Read Star Wars planet data
def read_file2():
    plan = pd.read_csv('planets.csv')
    print('Planet data:\n', plan)


# Read Star Wars species data
def read_file3():
    spec = pd.read_csv('species.csv')
    print('Species data:\n', spec)


# Read Star Wars starship data
def read_file4():
    ship = pd.read_csv('starships.csv')
    print('Starship data:\n', ship)


# Read Star Wars vehicle data
def read_file5():
    veh = pd.read_csv('vehicles.csv')
    print('Vehicle data:\n', veh)


# Read Star Wars database data
def read_db():
```

```python
    conn = sqlite3.connect("Star Wars")
    cur = conn.cursor()
    cur.execute("SELECT * FROM character")
    table = cur.fetchall()

    for i in table:
        print(i)

    cur.execute("SELECT * FROM planets")
    table2 = cur.fetchall()

    for i in table2:
        print(i)

    cur.execute("SELECT * FROM species")
    table3 = cur.fetchall()

    for i in table3:
        print(i)

    cur.execute("SELECT * FROM starships")
    table4 = cur.fetchall()

    for i in table4:
        print(i)

    cur.execute("SELECT * FROM vehicles")
    table5 = cur.fetchall()

    for i in table5:
        print(i)


# Merge Star Wars database data
def db_merge():
    conn = sqlite3.connect("Star Wars")
    cur = conn.cursor()
    cur.execute("SELECT * FROM character")
    table = cur.fetchall()
    char = pd.read_csv('characters.csv')
    print(char)
    cur.execute("SELECT * FROM planets")
    table2 = cur.fetchall()
    plan = pd.read_csv('planets.csv')
    print(plan)
    cur.execute("SELECT * FROM species")
    table3 = cur.fetchall()
    spec = pd.read_csv('species.csv')
    print(spec)
    cur.execute("SELECT * FROM starships")
    table4 = cur.fetchall()
    ship = pd.read_csv('starships.csv')
    print(ship)
    cur.execute("SELECT * FROM vehicles")
    table5 = cur.fetchall()
    veh = pd.read_csv('vehicles.csv')
    print(veh)
```

```python
    db = [char, plan, spec, ship, veh]
    db_final = reduce(lambda left, right: pd.merge(left, right, on=['name'],
how='outer'), db).fillna('NA')
    print("Database shape:\n", db_final.shape)
    print("Database data:\n", db_final)
    db_final.to_excel('Star Wars Data.xlsx')

    with open("Star Wars Data.json", "r") as f:
        data = json.load(f)


# Create Star Wars chatbot
def chatbot():
    api = 'https://swapi.py4e.com/api/'
    data = json.load(urllib2.urlopen(api))
    print(data)
    print("--Star Wars Chatbot--")
    character = input("What character from Star Wars do you want to know
about?\n")
    char = data['people']
    print("Data about " + str(character) + ": ", char)
    planet = input("What planet from Star Wars do you want to know about?\n")
    plan = data['planets']
    print("Data about " + str(planet) + ": ", plan)
    species = input("What species from Star Wars do you want to know
about?\n")
    spec = data['species']
    print("Data about " + str(species) + ": ", spec)
    starship = input("What starship from Star Wars do you want to know
about?\n")
    ship = data['starships']
    print("Data about " + str(starship) + ": ", ship)
    vehicle = input("What vehicle from Star Wars do you want to know
about?\n")
    veh = data['vehicles']
    print("Data about " + str(vehicle) + ": ", veh)


if __name__ == "__main__":
    read_file()
    read_file2()
    read_file3()
    read_file4()
    read_file5()
    read_db()
    db_merge()
    chatbot()
```

Output:

Character data:

```
            name  height mass hair_color  ... birth_year  gender homeworld species
0   Luke Skywalker  172.0   77      blond  ...     19BBY    male  Tatooine   Human
1           C-3PO  167.0   75        NaN  ...    112BBY     NaN  Tatooine   Droid
2           R2-D2   96.0   32        NaN  ...     33BBY     NaN     Naboo   Droid
3      Darth Vader  202.0  136       none  ...   41.9BBY    male  Tatooine   Human
4      Leia Organa  150.0   49      brown  ...     19BBY  female  Alderaan   Human
..             ...    ...  ...        ...  ...       ...     ...       ...     ...
82             Rey    NaN  NaN      brown  ...       NaN  female       NaN   Human
83    Poe Dameron    NaN  NaN      brown  ...       NaN    male       NaN   Human
84             BB8    NaN  NaN       none  ...       NaN    none       NaN   Droid
85  Captain Phasma    NaN  NaN        NaN  ...       NaN  female       NaN     NaN
86   Padmé Amidala  165.0   45      brown  ...     46BBY  female     Naboo   Human

[87 rows x 10 columns]
```

Planet data:

```
       name  rotation_period  ...  surface_water    population
0   Alderaan             24.0  ...           40.0  2.000000e+09
1   Yavin IV             24.0  ...            8.0  1.000000e+03
2       Hoth             23.0  ...          100.0          NaN
3    Dagobah             23.0  ...            8.0          NaN
4     Bespin             12.0  ...            0.0  6.000000e+06
..       ...              ...  ...            ...          ...
56     Shili              NaN  ...            NaN          NaN
57     Kalee             23.0  ...            NaN  4.000000e+09
58    Umbara              NaN  ...            NaN          NaN
59  Tatooine             23.0  ...            1.0  2.000000e+05
```

60	Jakku	NaN	...	NaN	NaN

[61 rows x 9 columns]

Species data:

	name	classification	...	language	homeworld
0	Hutt	gastropod	...	Huttese	Nal Hutta
1	Yoda's species	mammal	...	Galactic basic	NaN
2	Trandoshan	reptile	...	Dosh	Trandosha
3	Mon Calamari	amphibian	...	Mon Calamarian	Mon Cala
4	Ewok	mammal	...	Ewokese	Endor
5	Sullustan	mammal	...	Sullutese	Sullust
6	Neimodian	NaN	...	Neimoidia	Cato Neimoidia
7	Gungan	amphibian	...	Gungan basic	Naboo
8	Toydarian	mammal	...	Toydarian	Toydaria
9	Dug	mammal	...	Dugese	Malastare
10	Twi'lek	mammals	...	Twi'leki	Ryloth
11	Aleena	reptile	...	Aleena	Aleen Minor
12	Vulptereen	NaN	...	vulpterish	Vulpter
13	Xexto	NaN	...	Xextese	Troiken
14	Toong	NaN	...	Tundan	Tund
15	Cerean	mammal	...	Cerean	Cerea
16	Nautolan	amphibian	...	Nautila	Glee Anselm
17	Zabrak	mammal	...	Zabraki	Iridonia
18	Tholothian	mammal	...	NaN	Tholoth
19	Iktotchi	NaN	...	Iktotchese	Iktotch
20	Quermian	mammal	...	Quermian	Quermia
21	Kel Dor	NaN	...	Kel Dor	Dorin
22	Chagrian	amphibian	...	Chagria	Champala

23	Geonosian	insectoid	...	Geonosian	Geonosis
24	Mirialan	mammal	...	Mirialan	Mirial
25	Clawdite	reptilian	...	Clawdite	Zolan
26	Besalisk	amphibian	...	besalisk	Ojom
27	Kaminoan	amphibian	...	Kaminoan	Kamino
28	Skakoan	mammal	...	Skakoan	Skako
29	Muun	mammal	...	Muun	Muunilinst
30	Togruta	mammal	...	Togruti	Shili
31	Kaleesh	reptile	...	Kaleesh	Kalee
32	Pau'an	mammal	...	Utapese	Utapau
33	Wookiee	mammal	...	Shyriiwook	Kashyyyk
34	Droid	artificial	...	NaN	NaN
35	Human	mammal	...	Galactic Basic	Coruscant
36	Rodian	sentient	...	Galactic Basic	Rodia

[37 rows x 10 columns]

Starship data:

	name	...	starship_class
0	Executor	...	Star dreadnought
1	Sentinel-class landing craft	...	landing craft
2	Death Star	...	Deep Space Mobile Battlestation
3	Millennium Falcon	...	Light freighter
4	Y-wing	...	assault starfighter
5	X-wing	...	Starfighter
6	TIE Advanced x1	...	Starfighter
7	Slave 1	...	Patrol craft
8	Imperial shuttle	...	Armed government transport
9	EF76 Nebulon-B escort frigate	...	Escort ship

10	Calamari Cruiser ...	Star Cruiser
11	A-wing ...	Starfighter
12	B-wing ...	Assault Starfighter
13	Republic Cruiser ...	Space cruiser
14	Naboo fighter ...	Starfighter
15	Naboo Royal Starship ...	yacht
16	Scimitar ...	Space Transport
17	J-type diplomatic barge ...	Diplomatic barge
18	AA-9 Coruscant freighter ...	freighter
19	Jedi starfighter ...	Starfighter
20	H-type Nubian yacht ...	yacht
21	Star Destroyer ...	Star Destroyer
22	Trade Federation cruiser ...	capital ship
23	Theta-class T-2c shuttle ...	transport
24	T-70 X-wing fighter ...	fighter
25	Rebel transport ...	Medium transport
26	Droid control ship ...	Droid control ship
27	Republic Assault ship ...	assault ship
28	Solar Sailer ...	yacht
29	Republic attack cruiser ...	star destroyer
30	Naboo star skiff ...	yacht
31	Jedi Interceptor ...	starfighter
32	arc-170 ...	starfighter
33	Belbullab-22 starfighter ...	starfighter
34	V-wing ...	starfighter
35	CR90 corvette ...	corvette
36	Banking clan frigate ...	cruiser

[37 rows x 13 columns]

Vehicle data:

	name	...	vehicle_class
0	Sand Crawler	...	wheeled
1	T-16 skyhopper	...	repulsorcraft
2	X-34 landspeeder	...	repulsorcraft
3	TIE/LN starfighter	...	starfighter
4	Snowspeeder	...	airspeeder
5	TIE bomber	...	space/planetary bomber
6	AT-AT	...	assault walker
7	AT-ST	...	walker
8	Storm IV Twin-Pod cloud car	...	repulsorcraft
9	Sail barge	...	sail barge
10	Bantha-II cargo skiff	...	repulsorcraft cargo skiff
11	TIE/IN interceptor	...	starfighter
12	Imperial Speeder Bike	...	speeder
13	Vulture Droid	...	starfighter
14	Multi-Troop Transport	...	repulsorcraft
15	Armored Assault Tank	...	repulsorcraft
16	Single Trooper Aerial Platform	...	repulsorcraft
17	C-9979 landing craft	...	landing craft
18	Tribubble bongo	...	submarine
19	Sith speeder	...	speeder
20	Zephyr-G swoop bike	...	repulsorcraft
21	Koro-2 Exodrive airspeeder	...	airspeeder
22	XJ-6 airspeeder	...	airspeeder
23	LAAT/i	...	gunship
24	LAAT/c	...	gunship

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25      Tsmeu-6 personal wheel bike  ...          wheeled walker
26          Emergency Firespeeder  ...      fire suppression ship
27             Droid tri-fighter  ...        droid starfighter
28       Oevvaor jet catamaran  ...                airspeeder
29     Raddaugh Gnasp fluttercraft  ...           air speeder
30             Clone turbo tank  ...         wheeled walker
31   Corporate Alliance tank droid  ...               droid tank
32              Droid gunship  ...          airspeeder
33                  AT-RT  ...              walker
34                  AT-TE  ...              walker
35                  SPHA  ...              walker
36          Flitknot speeder  ...               speeder
37          Neimoidian shuttle  ...              transport
38       Geonosian starfighter  ...            starfighter
```

[39 rows x 11 columns]

('Luke Skywalker', 172, 77, 'blond', 'fair', 'blue', '19BBY', 'male', 'Tatooine', 'Human')

('C-3PO', 167, 75, 'NA', 'gold', 'yellow', '112BBY', 'NA', 'Tatooine', 'Droid')

('R2-D2', 96, 32, 'NA', 'white, blue', 'red', '33BBY', 'NA', 'Naboo', 'Droid')

('Darth Vader', 202, 136, 'none', 'white', 'yellow', '41.9BBY', 'male', 'Tatooine', 'Human')

('Leia Organa', 150, 49, 'brown', 'light', 'brown', '19BBY', 'female', 'Alderaan', 'Human')

('Owen Lars', 178, 120, 'brown, grey', 'light', 'blue', '52BBY', 'male', 'Tatooine', 'Human')

('Beru Whitesun lars', 165, 75, 'brown', 'light', 'blue', '47BBY', 'female', 'Tatooine', 'Human')

('R5-D4', 97, 32, 'NA', 'white, red', 'red', 'NA', 'NA', 'Tatooine', 'Droid')

('Biggs Darklighter', 183, 84, 'black', 'light', 'brown', '24BBY', 'male', 'Tatooine', 'Human')

('Obi-Wan Kenobi', 182, 77, 'auburn, white', 'fair', 'blue-gray', '57BBY', 'male', 'Stewjon', 'Human')

('Anakin Skywalker', 188, 84, 'blond', 'fair', 'blue', '41.9BBY', 'male', 'Tatooine', 'Human')

('Wilhuff Tarkin', 180, 'NA', 'auburn, grey', 'fair', 'blue', '64BBY', 'male', 'Eriadu', 'Human')

('Chewbacca', 228, 112, 'brown', 'NA', 'blue', '200BBY', 'male', 'Kashyyyk', 'Wookiee')

('Han Solo', 180, 80, 'brown', 'fair', 'brown', '29BBY', 'male', 'Corellia', 'Human')

('Greedo', 173, 74, 'NA', 'green', 'black', '44BBY', 'male', 'Rodia', 'Rodian')

('Jabba Desilijic Tiure', 175, '1,358', 'NA', 'green-tan, brown', 'orange', '600BBY', 'hermaphrodite', 'Nal Hutta', 'Hutt')

('Wedge Antilles', 170, 77, 'brown', 'fair', 'hazel', '21BBY', 'male', 'Corellia', 'Human')

('Jek Tono Porkins', 180, 110, 'brown', 'fair', 'blue', 'NA', 'male', 'Bestine IV', 'Human')

('Yoda', 66, 17, 'white', 'green', 'brown', '896BBY', 'male', 'NA', "Yoda's species")

('Palpatine', 170, 75, 'grey', 'pale', 'yellow', '82BBY', 'male', 'Naboo', 'Human')

('Boba Fett', 183, 78.2, 'black', 'fair', 'brown', '31.5BBY', 'male', 'Kamino', 'Human')

('IG-88', 200, 140, 'none', 'metal', 'red', '15BBY', 'none', 'NA', 'Droid')

('Bossk', 190, 113, 'none', 'green', 'red', '53BBY', 'male', 'Trandosha', 'Trandoshan')

('Lando Calrissian', 177, 79, 'black', 'dark', 'brown', '31BBY', 'male', 'Socorro', 'Human')

('Lobot', 175, 79, 'none', 'light', 'blue', '37BBY', 'male', 'Bespin', 'Human')

('Ackbar', 180, 83, 'none', 'brown mottle', 'orange', '41BBY', 'male', 'Mon Cala', 'Mon Calamari')

('Mon Mothma', 150, 'NA', 'auburn', 'fair', 'blue', '48BBY', 'female', 'Chandrila', 'Human')

('Arvel Crynyd', 'NA', 'NA', 'brown', 'fair', 'brown', 'NA', 'male', 'NA', 'Human')

('Wicket Systri Warrick', 88, 20, 'brown', 'brown', 'brown', '8BBY', 'male', 'Endor', 'Ewok')

('Nien Nunb', 160, 68, 'none', 'grey', 'black', 'NA', 'male', 'Sullust', 'Sullustan')

('Qui-Gon Jinn', 193, 89, 'brown', 'fair', 'blue', '92BBY', 'male', 'NA', 'Human')

('Nute Gunray', 191, 90, 'none', 'mottled green', 'red', 'NA', 'male', 'Cato Neimoidia', 'Neimodian')

('Finis Valorum', 170, 'NA', 'blond', 'fair', 'blue', '91BBY', 'male', 'Coruscant', 'Human')

('Jar Jar Binks', 196, 66, 'none', 'orange', 'orange', '52BBY', 'male', 'Naboo', 'Gungan')

('Roos Tarpals', 224, 82, 'none', 'grey', 'orange', 'NA', 'male', 'Naboo', 'Gungan')

('Rugor Nass', 206, 'NA', 'none', 'green', 'orange', 'NA', 'male', 'Naboo', 'Gungan')

('Ric OliÃ©', 183, 'NA', 'brown', 'fair', 'blue', 'NA', 'male', 'Naboo', 'NA')

('Watto', 137, 'NA', 'black', 'blue, grey', 'yellow', 'NA', 'male', 'Toydaria', 'Toydarian')

('Sebulba', 112, 40, 'none', 'grey, red', 'orange', 'NA', 'male', 'Malastare', 'Dug')

('Quarsh Panaka', 183, 'NA', 'black', 'dark', 'brown', '62BBY', 'male', 'Naboo', 'NA')

('Shmi Skywalker', 163, 'NA', 'black', 'fair', 'brown', '72BBY', 'female', 'Tatooine', 'Human')

('Darth Maul', 175, 80, 'none', 'red', 'yellow', '54BBY', 'male', 'Dathomir', 'Zabrak')

('Bib Fortuna', 180, 'NA', 'none', 'pale', 'pink', 'NA', 'male', 'Ryloth', "Twi'lek")

('Ayla Secura', 178, 55, 'none', 'blue', 'hazel', '48BBY', 'female', 'Ryloth', "Twi'lek")

('Dud Bolt', 94, 45, 'none', 'blue, grey', 'yellow', 'NA', 'male', 'Vulpter', 'Vulptereen')

('Gasgano', 122, 'NA', 'none', 'white, blue', 'black', 'NA', 'male', 'Troiken', 'Xexto')

('Ben Quadinaros', 163, 65, 'none', 'grey, green, yellow', 'orange', 'NA', 'male', 'Tund', 'Toong')

('Mace Windu', 188, 84, 'none', 'dark', 'brown', '72BBY', 'male', 'Haruun Kal', 'Human')

('Ki-Adi-Mundi', 198, 82, 'white', 'pale', 'yellow', '92BBY', 'male', 'Cerea', 'Cerean')

('Kit Fisto', 196, 87, 'none', 'green', 'black', 'NA', 'male', 'Glee Anselm', 'Nautolan')

('Eeth Koth', 171, 'NA', 'black', 'brown', 'brown', 'NA', 'male', 'Iridonia', 'Zabrak')

('Adi Gallia', 184, 50, 'none', 'dark', 'blue', 'NA', 'female', 'Coruscant', 'Tholothian')

('Saesee Tiin', 188, 'NA', 'none', 'pale', 'orange', 'NA', 'male', 'Iktotch', 'Iktotchi')

('Yarael Poof', 264, 'NA', 'none', 'white', 'yellow', 'NA', 'male', 'Quermia', 'Quermian')

('Plo Koon', 188, 80, 'none', 'orange', 'black', '22BBY', 'male', 'Dorin', 'Kel Dor')

('Mas Amedda', 196, 'NA', 'none', 'blue', 'blue', 'NA', 'male', 'Champala', 'Chagrian')

('Gregar Typho', 185, 85, 'black', 'dark', 'brown', 'NA', 'male', 'Naboo', 'Human')

('Cordé', 157, 'NA', 'brown', 'light', 'brown', 'NA', 'female', 'Naboo', 'Human')

('Cliegg Lars', 183, 'NA', 'brown', 'fair', 'blue', '82BBY', 'male', 'Tatooine', 'Human')

('Poggle the Lesser', 183, 80, 'none', 'green', 'yellow', 'NA', 'male', 'Geonosis', 'Geonosian')

('Luminara Unduli', 170, 56.2, 'black', 'yellow', 'blue', '58BBY', 'female', 'Mirial', 'Mirialan')

('Barriss Offee', 166, 50, 'black', 'yellow', 'blue', '40BBY', 'female', 'Mirial', 'Mirialan')

('Dormé', 165, 'NA', 'brown', 'light', 'brown', 'NA', 'female', 'Naboo', 'Human')

('Dooku', 193, 80, 'white', 'fair', 'brown', '102BBY', 'male', 'Serenno', 'Human')

('Bail Prestor Organa', 191, 'NA', 'black', 'tan', 'brown', '67BBY', 'male', 'Alderaan', 'Human')

('Jango Fett', 183, 79, 'black', 'tan', 'brown', '66BBY', 'male', 'Concord Dawn', 'Human')

('Zam Wesell', 168, 55, 'blonde', 'fair, green, yellow', 'yellow', 'NA', 'female', 'Zolan', 'Clawdite')

('Dexter Jettster', 198, 102, 'none', 'brown', 'yellow', 'NA', 'male', 'Ojom', 'Besalisk')

('Lama Su', 229, 88, 'none', 'grey', 'black', 'NA', 'male', 'Kamino', 'Kaminoan')

('Taun We', 213, 'NA', 'none', 'grey', 'black', 'NA', 'female', 'Kamino', 'Kaminoan')

('Jocasta Nu', 167, 'NA', 'white', 'fair', 'blue', 'NA', 'female', 'Coruscant', 'Human')

('Ratts Tyerell', 79, 15, 'none', 'grey, blue', 'NA', 'NA', 'male', 'Aleen Minor', 'Aleena')

('R4-P17', 96, 'NA', 'none', 'silver, red', 'red, blue', 'NA', 'female', 'NA', 'NA')

('Wat Tambor', 193, 48, 'none', 'green, grey', 'NA', 'NA', 'male', 'Skako', 'Skakoan')

('San Hill', 191, 'NA', 'none', 'grey', 'gold', 'NA', 'male', 'Muunilinst', 'Muun')

('Shaak Ti', 178, 57, 'none', 'red, blue, white', 'black', 'NA', 'female', 'Shili', 'Togruta')

('Grievous', 216, 159, 'none', 'brown, white', 'green, yellow', 'NA', 'male', 'Kalee', 'Kaleesh')

('Tarfful', 234, 136, 'brown', 'brown', 'blue', 'NA', 'male', 'Kashyyyk', 'Wookiee')

('Raymus Antilles', 188, 79, 'brown', 'light', 'brown', 'NA', 'male', 'Alderaan', 'Human')

('Sly Moore', 178, 48, 'none', 'pale', 'white', 'NA', 'female', 'Umbara', 'NA')

('Tion Medon', 206, 80, 'none', 'grey', 'black', 'NA', 'male', 'Utapau', "Pau'an")

('Finn', 'NA', 'NA', 'black', 'dark', 'dark', 'NA', 'male', 'NA', 'Human')

('Rey', 'NA', 'NA', 'brown', 'light', 'hazel', 'NA', 'female', 'NA', 'Human')

('Poe Dameron', 'NA', 'NA', 'brown', 'light', 'brown', 'NA', 'male', 'NA', 'Human')

('BB8', 'NA', 'NA', 'none', 'none', 'black', 'NA', 'none', 'NA', 'Droid')

('Captain Phasma', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'female', 'NA', 'NA')

('Padmé Amidala', 165, 45, 'brown', 'light', 'brown', '46BBY', 'female', 'Naboo', 'Human')

('Alderaan', 24, 364, 12500, 'temperate', '1 standard', 'grasslands, mountains', 40, 2000000000.0)

('Yavin IV', 24, 4818, 10200, 'temperate, tropical', '1 standard', 'jungle, rainforests', 8, 1000.0)

('Hoth', 23, 549, 7200, 'frozen', '1.1 standard', 'tundra, ice caves, mountain ranges', 100, 'NA')

('Dagobah', 23, 341, 8900, 'murky', 'N/A', 'swamp, jungles', 8, 'NA')

('Bespin', 12, 5110, 118000, 'temperate', '1.5 (surface), 1 standard (Cloud City)', 'gas giant', 0, 6000000.0)

('Endor', 18, 402, 4900, 'temperate', '0.85 standard', 'forests, mountains, lakes', 8, 30000000.0)

('Naboo', 26, 312, 12120, 'temperate', '1 standard', 'grassy hills, swamps, forests, mountains', 12, 4500000000.0)

('Coruscant', 24, 368, 12240, 'temperate', '1 standard', 'cityscape, mountains', 'NA', 1000000000000.0)

('Kamino', 27, 463, 19720, 'temperate', '1 standard', 'ocean', 100, 1000000000.0)

('Geonosis', 30, 256, 11370, 'temperate, arid', '0.9 standard', 'rock, desert, mountain, barren', 5, 100000000000.0)

('Utapau', 27, 351, 12900, 'temperate, arid, windy', '1 standard', 'scrublands, savanna, canyons, sinkholes', 0.9, 95000000.0)

('Mustafar', 36, 412, 4200, 'hot', '1 standard', 'volcanoes, lava rivers, mountains, caves', 0, 20000.0)

('Kashyyyk', 26, 381, 12765, 'tropical', '1 standard', 'jungle, forests, lakes, rivers', 60, 45000000.0)

('Polis Massa', 24, 590, 0, 'artificial temperate ', '0.56 standard', 'airless asteroid', 0, 1000000.0)

('Mygeeto', 12, 167, 10088, 'frigid', '1 standard', 'glaciers, mountains, ice canyons', 'NA', 19000000.0)

('Felucia', 34, 231, 9100, 'hot, humid', '0.75 standard', 'fungus forests', 'NA', 8500000.0)

('Cato Neimoidia', 25, 278, 0, 'temperate, moist', '1 standard', 'mountains, fields, forests, rock arches', 'NA', 10000000.0)

('Saleucami', 26, 392, 14920, 'hot', 'NA', 'caves, desert, mountains, volcanoes', 'NA', 1400000000.0)

('Stewjon', 'NA', 'NA', 0, 'temperate', '1 standard', 'grass', 'NA', 'NA')

('Eriadu', 24, 360, 13490, 'polluted', '1 standard', 'cityscape', 'NA', 22000000000.0)

('Corellia', 25, 329, 11000, 'temperate', '1 standard', 'plains, urban, hills, forests', 70, 3000000000.0)

('Rodia', 29, 305, 7549, 'hot', '1 standard', 'jungles, oceans, urban, swamps', 60, 1300000000.0)

('Nal Hutta', 87, 413, 12150, 'temperate', '1 standard', 'urban, oceans, swamps, bogs', 'NA', 7000000000.0)

('Dantooine', 25, 378, 9830, 'temperate', '1 standard', 'oceans, savannas, mountains, grasslands', 'NA', 1000.0)

('Bestine IV', 26, 680, 6400, 'temperate', 'NA', 'rocky islands, oceans', 98, 62000000.0)

('Ord Mantell', 26, 334, 14050, 'temperate', '1 standard', 'plains, seas, mesas', 10, 4000000000.0)

('NA', 0, 0, 0, 'NA', 'NA', 'NA', 'NA', 'NA')

('Trandosha', 25, 371, 0, 'arid', '0.62 standard', 'mountains, seas, grasslands, deserts', 'NA', 42000000.0)

('Socorro', 20, 326, 0, 'arid', '1 standard', 'deserts, mountains', 'NA', 300000000.0)

('Mon Cala', 21, 398, 11030, 'temperate', '1', 'oceans, reefs, islands', 100, 27000000000.0)

('Chandrila', 20, 368, 13500, 'temperate', '1', 'plains, forests', 40, 1200000000.0)

('Sullust', 20, 263, 12780, 'superheated', '1', 'mountains, volcanoes, rocky deserts', 5, 18500000000.0)

('Toydaria', 21, 184, 7900, 'temperate', '1', 'swamps, lakes', 'NA', 11000000.0)

('Malastare', 26, 201, 18880, 'arid, temperate, tropical', '1.56', 'swamps, deserts, jungles, mountains', 'NA', 2000000000.0)

('Dathomir', 24, 491, 10480, 'temperate', '0.9', 'forests, deserts, savannas', 'NA', 5200.0)

('Ryloth', 30, 305, 10600, 'temperate, arid, subartic', '1', 'mountains, valleys, deserts, tundra', 5, 1500000000.0)

('Aleen Minor', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA')

('Vulpter', 22, 391, 14900, 'temperate, artic', '1', 'urban, barren', 'NA', 421000000.0)

('Troiken', 'NA', 'NA', 'NA', 'NA', 'NA', 'desert, tundra, rainforests, mountains', 'NA', 'NA')

('Tund', 48, 1770, 12190, 'NA', 'NA', 'barren, ash', 'NA', 0.0)

('Haruun Kal', 25, 383, 10120, 'temperate', '0.98', 'toxic cloudsea, plateaus, volcanoes', 'NA', 705300.0)

('Cerea', 27, 386, 'NA', 'temperate', '1', 'verdant', 20, 450000000.0)

('Glee Anselm', 33, 206, 15600, 'tropical, temperate', '1', 'lakes, islands, swamps, seas', 80, 500000000.0)

('Iridonia', 29, 413, 'NA', 'NA', 'NA', 'rocky canyons, acid pools', 'NA', 'NA')

('Tholoth', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA')

('Iktotch', 22, 481, 'NA', 'arid, rocky, windy', '1', 'rocky', 'NA', 'NA')

('Quermia', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA')

('Dorin', 22, 409, 13400, 'temperate', '1', 'NA', 'NA', 'NA')

('Champala', 27, 318, 'NA', 'temperate', '1', 'oceans, rainforests, plateaus', 'NA', 3500000000.0)

('Mirial', 'NA', 'NA', 'NA', 'NA', 'NA', 'deserts', 'NA', 'NA')

('Serenno', 'NA', 'NA', 'NA', 'NA', 'NA', 'rainforests, rivers, mountains', 'NA', 'NA')

('Concord Dawn', 'NA', 'NA', 'NA', 'NA', 'NA', 'jungles, forests, deserts', 'NA', 'NA')

('Zolan', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA')

('Ojom', 'NA', 'NA', 'NA', 'frigid', 'NA', 'oceans, glaciers', 100, 500000000.0)

('Skako', 27, 384, 'NA', 'temperate', '1', 'urban, vines', 'NA', 500000000000.0)

('Muunilinst', 28, 412, 13800, 'temperate', '1', 'plains, forests, hills, mountains', 25, 5000000000.0)

('Shili', 'NA', 'NA', 'NA', 'temperate', '1', 'cities, savannahs, seas, plains', 'NA', 'NA')

('Kalee', 23, 378, 13850, 'arid, temperate, tropical', '1', 'rainforests, cliffs, canyons, seas', 'NA', 4000000000.0)

('Umbara', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA', 'NA')

('Tatooine', 23, 304, 10465, 'arid', '1 standard', 'desert', 1, 200000.0)

('Jakku', 'NA', 'NA', 'NA', 'NA', 'NA', 'deserts', 'NA', 'NA')

('Hutt', 'gastropod', 'sentient', 300, 'green, brown, tan', 'NA', 'yellow, red', '1000', 'Huttese', 'Nal Hutta')

("Yoda's species", 'mammal', 'sentient', 66, 'green, yellow', 'brown, white', 'brown, green, yellow', '900', 'Galactic basic', 'NA')

('Trandoshan', 'reptile', 'sentient', 200, 'brown, green', 'none', 'yellow, orange', 'NA', 'Dosh', 'Trandosha')

('Mon Calamari', 'amphibian', 'sentient', 160, 'red, blue, brown, magenta', 'none', 'yellow', 'NA', 'Mon Calamarian', 'Mon Cala')

('Ewok', 'mammal', 'sentient', 100, 'brown', 'white, brown, black', 'orange, brown', 'NA', 'Ewokese', 'Endor')

('Sullustan', 'mammal', 'sentient', 180, 'pale', 'none', 'black', 'NA', 'Sullutese', 'Sullust')

('Neimodian', 'NA', 'sentient', 180, 'grey, green', 'none', 'red, pink', 'NA', 'Neimoidia', 'Cato Neimoidia')

('Gungan', 'amphibian', 'sentient', 190, 'brown, green', 'none', 'orange', 'NA', 'Gungan basic', 'Naboo')

('Toydarian', 'mammal', 'sentient', 120, 'blue, green, grey', 'none', 'yellow', '91', 'Toydarian', 'Toydaria')

('Dug', 'mammal', 'sentient', 100, 'brown, purple, grey, red', 'none', 'yellow, blue', 'NA', 'Dugese', 'Malastare')

("Twi'lek", 'mammals', 'sentient', 200, 'orange, yellow, blue, green, pink, purple, tan', 'none', 'blue, brown, orange, pink', 'NA', "Twi'leki", 'Ryloth')

('Aleena', 'reptile', 'sentient', 80, 'blue, gray', 'none', 'NA', '79', 'Aleena', 'Aleen Minor')

('Vulptereen', 'NA', 'sentient', 100, 'grey', 'none', 'yellow', 'NA', 'vulpterish', 'Vulpter')

('Xexto', 'NA', 'sentient', 125, 'grey, yellow, purple', 'none', 'black', 'NA', 'Xextese', 'Troiken')

('Toong', 'NA', 'sentient', 200, 'grey, green, yellow', 'none', 'orange', 'NA', 'Tundan', 'Tund')

('Cerean', 'mammal', 'sentient', 200, 'pale pink', 'red, blond, black, white', 'hazel', 'NA', 'Cerean', 'Cerea')

('Nautolan', 'amphibian', 'sentient', 180, 'green, blue, brown, red', 'none', 'black', '70', 'Nautila', 'Glee Anselm')

('Zabrak', 'mammal', 'sentient', 180, 'pale, brown, red, orange, yellow', 'black', 'brown, orange', 'NA', 'Zabraki', 'Iridonia')

('Tholothian', 'mammal', 'sentient', 'NA', 'dark', 'NA', 'blue, indigo', 'NA', 'NA', 'Tholoth')

('Iktotchi', 'NA', 'sentient', 180, 'pink', 'none', 'orange', 'NA', 'Iktotchese', 'Iktotch')

('Quermian', 'mammal', 'sentient', 240, 'white', 'none', 'yellow', '86', 'Quermian', 'Quermia')

('Kel Dor', 'NA', 'sentient', 180, 'peach, orange, red', 'none', 'black, silver', '70', 'Kel Dor', 'Dorin')

('Chagrian', 'amphibian', 'sentient', 190, 'blue', 'none', 'blue', 'NA', 'Chagria', 'Champala')

('Geonosian', 'insectoid', 'sentient', 178, 'green, brown', 'none', 'green, hazel', 'NA', 'Geonosian', 'Geonosis')

('Mirialan', 'mammal', 'sentient', 180, 'yellow, green', 'black, brown', 'blue, green, red, yellow, brown, orange', 'NA', 'Mirialan', 'Mirial')

('Clawdite', 'reptilian', 'sentient', 180, 'green, yellow', 'none', 'yellow', '70', 'Clawdite', 'Zolan')

('Besalisk', 'amphibian', 'sentient', 178, 'brown', 'none', 'yellow', '75', 'besalisk', 'Ojom')

('Kaminoan', 'amphibian', 'sentient', 220, 'grey, blue', 'none', 'black', '80', 'Kaminoan', 'Kamino')

('Skakoan', 'mammal', 'sentient', 'NA', 'grey, green', 'none', 'NA', 'NA', 'Skakoan', 'Skako')

('Muun', 'mammal', 'sentient', 190, 'grey, white', 'none', 'black', '100', 'Muun', 'Muunilinst')

('Togruta', 'mammal', 'sentient', 180, 'red, white, orange, yellow, green, blue', 'none', 'red, orange, yellow, green, blue, black', '94', 'Togruti', 'Shili')

('Kaleesh', 'reptile', 'sentient', 170, 'brown, orange, tan', 'none', 'yellow', '80', 'Kaleesh', 'Kalee')

("Pau'an", 'mammal', 'sentient', 190, 'grey', 'none', 'black', '700', 'Utapese', 'Utapau')

('Wookiee', 'mammal', 'sentient', 210, 'gray', 'black, brown', 'blue, green, yellow, brown, golden, red', '400', 'Shyriiwook', 'Kashyyyk')

('Droid', 'artificial', 'sentient', 'NA', 'NA', 'NA', 'NA', 'indefinite', 'NA', 'NA')

('Human', 'mammal', 'sentient', 180, 'caucasian, black, asian, hispanic', 'blonde, brown, black, red', 'brown, blue, green, hazel, grey, amber', '120', 'Galactic Basic', 'Coruscant')

('Rodian', 'sentient', 'reptilian', 170, 'green, blue', 'NA', 'black', 'NA', 'Galactic Basic', 'Rodia')

('Executor', 'Executor-class star dreadnought', 'Kuat Drive Yards, Fondor Shipyards', '1143350000', 19000.0, 'n/a', '279144', '38000', '250000000', '6 years', '2.0', '40', 'Star dreadnought')

('Sentinel-class landing craft', 'Sentinel-class landing craft', 'Sienar Fleet Systems, Cyngus Spaceworks', '240000', 38.0, '1000', '5', '75', '180000', '1 month', '1.0', '70', 'landing craft')

('Death Star', 'DS-1 Orbital Battle Station', 'Imperial Department of Military Research, Sienar Fleet Systems', '1000000000000', 120000.0, 'n/a', '342953', '843342', '1000000000000', '3 years', '4.0', '10', 'Deep Space Mobile Battlestation')

('Millennium Falcon', 'YT-1300 light freighter', 'Corellian Engineering Corporation', '100000', 34.37, '1050', '4', '6', '100000', '2 months', '0.5', '75', 'Light freighter')

('Y-wing', 'BTL Y-wing', 'Koensayr Manufacturing', '134999', 14.0, '1000km', '2', '0', '110', '1 week', '1.0', '80', 'assault starfighter')

('X-wing', 'T-65 X-wing', 'Incom Corporation', '149999', 12.5, '1050', '1', '0', '110', '1 week', '1.0', '100', 'Starfighter')

('TIE Advanced x1', 'Twin Ion Engine Advanced x1', 'Sienar Fleet Systems', 'NA', 9.2, '1200', '1', '0', '150', '5 days', '1.0', '105', 'Starfighter')

('Slave 1', 'Firespray-31-class patrol and attack', 'Kuat Systems Engineering', 'NA', 21.5, '1000', '1', '6', '70000', '1 month', '3.0', '70', 'Patrol craft')

('Imperial shuttle', 'Lambda-class T-4a shuttle', 'Sienar Fleet Systems', '240000', 20.0, '850', '6', '20', '80000', '2 months', '1.0', '50', 'Armed government transport')

('EF76 Nebulon-B escort frigate', 'EF76 Nebulon-B escort frigate', 'Kuat Drive Yards', '8500000', 300.0, '800', '854', '75', '6000000', '2 years', '2.0', '40', 'Escort ship')

('Calamari Cruiser', 'MC80 Liberty type Star Cruiser', 'Mon Calamari shipyards', '104000000', 1200.0, 'n/a', '5400', '1200', 'NA', '2 years', '1.0', '60', 'Star Cruiser')

('A-wing', 'RZ-1 A-wing Interceptor', 'Alliance Underground Engineering, Incom Corporation', '175000', 9.6, '1300', '1', '0', '40', '1 week', '1.0', '120', 'Starfighter')

('B-wing', 'A/SF-01 B-wing starfighter', 'Slayn & Korpil', '220000', 16.9, '950', '1', '0', '45', '1 week', '2.0', '91', 'Assault Starfighter')

('Republic Cruiser', 'Consular-class cruiser', 'Corellian Engineering Corporation', 'NA', 115.0, '900', '9', '16', 'NA', 'NA', '2.0', 'NA', 'Space cruiser')

('Naboo fighter', 'N-1 starfighter', 'Theed Palace Space Vessel Engineering Corps', '200000', 11.0, '1100', '1', '0', '65', '7 days', '1.0', 'NA', 'Starfighter')

('Naboo Royal Starship', 'J-type 327 Nubian royal starship', 'Theed Palace Space Vessel Engineering Corps, Nubia Star Drives', 'NA', 76.0, '920', '8', 'NA', 'NA', 'NA', '1.8', 'NA', 'yacht')

('Scimitar', 'Star Courier', 'Republic Sienar Systems', '55000000', 26.5, '1180', '1', '6', '2500000', '30 days', '1.5', 'NA', 'Space Transport')

('J-type diplomatic barge', 'J-type diplomatic barge', 'Theed Palace Space Vessel Engineering Corps, Nubia Star Drives', '2000000', 39.0, '2000', '5', '10', 'NA', '1 year', '0.7', 'NA', 'Diplomatic barge')

('AA-9 Coruscant freighter', 'Botajef AA-9 Freighter-Liner', 'Botajef Shipyards', 'NA', 390.0, 'NA', 'NA', '30000', 'NA', 'NA', 'NA', 'NA', 'freighter')

('Jedi starfighter', 'Delta-7 Aethersprite-class interceptor', 'Kuat Systems Engineering', '180000', 8.0, '1150', '1', '0', '60', '7 days', '1.0', 'NA', 'Starfighter')

('H-type Nubian yacht', 'H-type Nubian yacht', 'Theed Palace Space Vessel Engineering Corps', 'NA', 47.9, '8000', '4', 'NA', 'NA', 'NA', '0.9', 'NA', 'yacht')

('Star Destroyer', 'Imperial I-class Star Destroyer', 'Kuat Drive Yards', '150000000', '1,600', '975', '47060', '0', '36000000', '2 years', '2.0', '60', 'Star Destroyer')

('Trade Federation cruiser', 'Providence-class carrier/destroyer', 'Rendili StarDrive, Free Dac Volunteers Engineering corps.', '125000000', 1088.0, '1050', '600', '48247', '50000000', '4 years', '1.5', 'NA', 'capital ship')

('Theta-class T-2c shuttle', 'Theta-class T-2c shuttle', 'Cygnus Spaceworks', '1000000', 18.5, '2000', '5', '16', '50000', '56 days', '1.0', 'NA', 'transport')

('T-70 X-wing fighter', 'T-70 X-wing fighter', 'Incom', 'NA', 'NA', 'NA', '1', 'NA', 'NA', 'NA', 'NA', 'NA', 'fighter')

('Rebel transport', 'GR-75 medium transport', 'Gallofree Yards, Inc.', 'NA', 90.0, '650', '6', '90', '19000000', '6 months', '4.0', '20', 'Medium transport')

('Droid control ship', 'Lucrehulk-class Droid Control Ship', 'Hoersch-Kessel Drive, Inc.', 'NA', 3170.0, 'n/a', '175', '139000', '4000000000', '500 days', '2.0', 'NA', 'Droid control ship')

('Republic Assault ship', 'Acclamator I-class assault ship', 'Rothana Heavy Engineering', 'NA', 752.0, 'NA', '700', '16000', '11250000', '2 years', '0.6', 'NA', 'assault ship')

('Solar Sailer', 'Punworcca 116-class interstellar sloop', 'Huppla Pasa Tisc Shipwrights Collective', '35700', 15.2, '1600', '3', '11', '240', '7 days', '1.5', 'NA', 'yacht')

('Republic attack cruiser', 'Senator-class Star Destroyer', 'Kuat Drive Yards, Allanteen Six shipyards', '59000000', 1137.0, '975', '7400', '2000', '20000000', '2 years', '1.0', 'NA', 'star destroyer')

('Naboo star skiff', 'J-type star skiff', 'Theed Palace Space Vessel Engineering Corps/Nubia Star Drives, Incorporated', 'NA', 29.2, '1050', '3', '3', 'NA', 'NA', '0.5', 'NA', 'yacht')

('Jedi Interceptor', 'Eta-2 Actis-class light interceptor', 'Kuat Systems Engineering', '320000', 5.47, '1500', '1', '0', '60', '2 days', '1.0', 'NA', 'starfighter')

('arc-170', 'Aggressive Reconnaissance-170 starfighte', 'Incom Corporation, Subpro Corporation', '155000', 14.5, '1000', '3', '0', '110', '5 days', '1.0', '100', 'starfighter')

('Belbullab-22 starfighter', 'Belbullab-22 starfighter', 'Feethan Ottraw Scalable Assemblies', '168000', 6.71, '1100', '1', '0', '140', '7 days', '6', 'NA', 'starfighter')

('V-wing', 'Alpha-3 Nimbus-class V-wing starfighter', 'Kuat Systems Engineering', '102500', 7.9, '1050', '1', '0', '60', '15 hours', '1.0', 'NA', 'starfighter')

('CR90 corvette', 'CR90 corvette', 'Corellian Engineering Corporation', '3500000', 150.0, '950', '165', '600', '3000000', '1 year', '2.0', '60', 'corvette')

('Banking clan frigate', 'Munificent-class star frigate', 'Hoersch-Kessel Drive, Inc, Gwori Revolutionary Industries', '57000000', 825.0, 'NA', '200', 'NA', '40000000', '2 years', '1.0', 'NA', 'cruiser')

('Sand Crawler', 'Digger Crawler', 'Corellia Mining Corporation', '150000', '36.8', '30', 46, '30', '50000', '2 months', 'wheeled')

('T-16 skyhopper', 'T-16 skyhopper', 'Incom Corporation', '14500', '10.4', '1200', 1, '1', '50', '0', 'repulsorcraft')

('X-34 landspeeder', 'X-34 landspeeder', 'SoroSuub Corporation', '10550', '3.4', '250', 1, '1', '5', 'NA', 'repulsorcraft')

('TIE/LN starfighter', 'Twin Ion Engine/Ln Starfighter', 'Sienar Fleet Systems', 'NA', '6.4', '1200', 1, '0', '65', '2 days', 'starfighter')

('Snowspeeder', 't-47 airspeeder', 'Incom corporation', 'NA', '4.5', '650', 2, '0', '10', 'none', 'airspeeder')

('TIE bomber', 'TIE/sa bomber', 'Sienar Fleet Systems', 'NA', '7.8', '850', 1, '0', 'none', '2 days', 'space/planetary bomber')

('AT-AT', 'All Terrain Armored Transport', 'Kuat Drive Yards, Imperial Department of Military Research', 'NA', '20', '60', 5, '40', '1000', 'NA', 'assault walker')

('AT-ST', 'All Terrain Scout Transport', 'Kuat Drive Yards, Imperial Department of Military Research', 'NA', '2', '90', 2, '0', '200', 'none', 'walker')

('Storm IV Twin-Pod cloud car', 'Storm IV Twin-Pod', 'Bespin Motors', '75000', '7', '1500', 2, '0', '10', '1 day', 'repulsorcraft')

('Sail barge', 'Modified Luxury Sail Barge', 'Ubrikkian Industries Custom Vehicle Division', '285000', '30', '100', 26, '500', '2000000', 'Live food tanks', 'sail barge')

('Bantha-II cargo skiff', 'Bantha-II', 'Ubrikkian Industries', '8000', '9.5', '250', 5, '16', '135000', '1 day', 'repulsorcraft cargo skiff')

('TIE/IN interceptor', 'Twin Ion Engine Interceptor', 'Sienar Fleet Systems', 'NA', '9.6', '1250', 1, '0', '75', '2 days', 'starfighter')

('Imperial Speeder Bike', '74-Z speeder bike', 'Aratech Repulsor Company', '8000', '3', '360', 1, '1', '4', '1 day', 'speeder')

('Vulture Droid', 'Vulture-class droid starfighter', 'Haor Chall Engineering, Baktoid Armor Workshop', 'NA', '3.5', '1200', 0, '0', '0', 'none', 'starfighter')

('Multi-Troop Transport', 'Multi-Troop Transport', 'Baktoid Armor Workshop', '138000', '31', '35', 4, '112', '12000', 'NA', 'repulsorcraft')

('Armored Assault Tank', 'Armoured Assault Tank', 'Baktoid Armor Workshop', 'NA', '9.75', '55', 4, '6', 'NA', 'NA', 'repulsorcraft')

('Single Trooper Aerial Platform', 'Single Trooper Aerial Platform', 'Baktoid Armor Workshop', '2500', '2', '400', 1, '0', 'none', 'none', 'repulsorcraft')

('C-9979 landing craft', 'C-9979 landing craft', 'Haor Chall Engineering', '200000', '210', '587', 140, '284', '1800000', '1 day', 'landing craft')

('Tribubble bongo', 'Tribubble bongo', 'Otoh Gunga Bongameken Cooperative', 'NA', '15', '85', 1, '2', '1600', 'NA', 'submarine')

('Sith speeder', 'FC-20 speeder bike', 'Razalon', '4000', '1.5', '180', 1, '0', '2', 'NA', 'speeder')

('Zephyr-G swoop bike', 'Zephyr-G swoop bike', 'Mobquet Swoops and Speeders', '5750', '3.68', '350', 1, '1', '200', 'none', 'repulsorcraft')

('Koro-2 Exodrive airspeeder', 'Koro-2 Exodrive airspeeder', 'Desler Gizh Outworld Mobility Corporation', 'NA', '6.6', '800', 1, '1', '80', 'NA', 'airspeeder')

('XJ-6 airspeeder', 'XJ-6 airspeeder', 'Narglatch AirTech prefabricated kit', 'NA', '6.23', '720', 1, '1', 'NA', 'NA', 'airspeeder')

('LAAT/i', 'Low Altitude Assault Transport/infrantry', 'Rothana Heavy Engineering', 'NA', '17.4', '620', 6, '30', '170', 'NA', 'gunship')

('LAAT/c', 'Low Altitude Assault Transport/carrier', 'Rothana Heavy Engineering', 'NA', '28.82', '620', 1, '0', '40000', 'NA', 'gunship')

('Tsmeu-6 personal wheel bike', 'Tsmeu-6 personal wheel bike', 'Z-Gomot Ternbuell Guppat Corporation', '15000', '3.5', '330', 1, '1', '10', 'none', 'wheeled walker')

('Emergency Firespeeder', 'Fire suppression speeder', 'NA', 'NA', 'NA', 'NA', 2, 'NA', 'NA', 'NA', 'fire suppression ship')

('Droid tri-fighter', 'tri-fighter', 'Colla Designs, Phlac-Arphocc Automata Industries', '20000', '5.4', '1180', 1, '0', '0', 'none', 'droid starfighter')

('Oevvaor jet catamaran', 'Oevvaor jet catamaran', 'Appazanna Engineering Works', '12125', '15.1', '420', 2, '2', '50', '3 days', 'airspeeder')

('Raddaugh Gnasp fluttercraft', 'Raddaugh Gnasp fluttercraft', 'Appazanna Engineering Works', '14750', '7', '310', 2, '0', '20', 'none', 'air speeder')

('Clone turbo tank', 'HAVw A6 Juggernaut', 'Kuat Drive Yards', '350000', '49.4', '160', 20, '300', '30000', '20 days', 'wheeled walker')

('Corporate Alliance tank droid', 'NR-N99 Persuader-class droid enforcer', 'Techno Union', '49000', '10.96', '100', 0, '4', 'none', 'none', 'droid tank')

('Droid gunship', 'HMP droid gunship', 'Baktoid Fleet Ordnance, Haor Chall Engineering', '60000', '12.3', '820', 0, '0', '0', 'none', 'airspeeder')

('AT-RT', 'All Terrain Recon Transport', 'Kuat Drive Yards', '40000', '3.2', '90', 1, '0', '20', '1 day', 'walker')

('AT-TE', 'All Terrain Tactical Enforcer', 'Rothana Heavy Engineering, Kuat Drive Yards', 'NA', '13.2', '60', 6, '36', '10000', '21 days', 'walker')

('SPHA', 'Self-Propelled Heavy Artillery', 'Rothana Heavy Engineering', 'NA', '140', '35', 25, '30', '500', '7 days', 'walker')

('Flitknot speeder', 'Flitknot speeder', 'Huppla Pasa Tisc Shipwrights Collective', '8000', '2', '634', 1, '0', 'NA', 'NA', 'speeder')

('Neimoidian shuttle', 'Sheathipede-class transport shuttle', 'Haor Chall Engineering', 'NA', '20', '880', 2, '6', '1000', '7 days', 'transport')

('Geonosian starfighter', 'Nantex-class territorial defense', 'Huppla Pasa Tisc Shipwrights Collective', 'NA', '9.8', '20000', 1, '0', 'NA', 'NA', 'starfighter')

	name	height	mass	hair_color	...	birth_year	gender	homeworld	species
0	Luke Skywalker	172.0	77	blond	...	19BBY	male	Tatooine	Human
1	C-3PO	167.0	75	NaN	...	112BBY	NaN	Tatooine	Droid
2	R2-D2	96.0	32	NaN	...	33BBY	NaN	Naboo	Droid
3	Darth Vader	202.0	136	none	...	41.9BBY	male	Tatooine	Human

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4     Leia Organa  150.0  49    brown  ...    19BBY  female  Alderaan   Human
..        ...    ... ...      ... ...      ...    ...     ...     ...
82          Rey    NaN  NaN   brown  ...    NaN  female    NaN   Human
83   Poe Dameron    NaN  NaN   brown  ...    NaN   male    NaN   Human
84          BB8    NaN  NaN   none  ...    NaN   none    NaN   Droid
85  Captain Phasma   NaN  NaN    NaN  ...    NaN  female    NaN    NaN
86  Padmé Amidala  165.0  45    brown  ...   46BBY  female   Naboo   Human

[87 rows x 10 columns]
     name  rotation_period  ...  surface_water   population
0  Alderaan        24.0  ...        40.0  2.000000e+09
1  Yavin IV        24.0  ...         8.0  1.000000e+03
2    Hoth        23.0  ...       100.0        NaN
3  Dagobah        23.0  ...         8.0        NaN
4   Bespin        12.0  ...         0.0  6.000000e+06
..     ...         ... ...         ...        ...
56   Shili        NaN  ...        NaN        NaN
57   Kalee        23.0  ...        NaN  4.000000e+09
58  Umbara        NaN  ...        NaN        NaN
59  Tatooine        23.0  ...         1.0  2.000000e+05
60   Jakku        NaN  ...        NaN        NaN

[61 rows x 9 columns]
        name classification  ...      language      homeworld
0        Hutt    gastropod  ...      Huttese     Nal Hutta
1  Yoda's species      mammal  ...  Galactic basic        NaN
2   Trandoshan      reptile  ...        Dosh     Trandosha
3  Mon Calamari    amphibian  ...  Mon Calamarian      Mon Cala
```

4	Ewok	mammal	...	Ewokese	Endor
5	Sullustan	mammal	...	Sullutese	Sullust
6	Neimodian	NaN	...	Neimoidia	Cato Neimoidia
7	Gungan	amphibian	...	Gungan basic	Naboo
8	Toydarian	mammal	...	Toydarian	Toydaria
9	Dug	mammal	...	Dugese	Malastare
10	Twi'lek	mammals	...	Twi'leki	Ryloth
11	Aleena	reptile	...	Aleena	Aleen Minor
12	Vulptereen	NaN	...	vulpterish	Vulpter
13	Xexto	NaN	...	Xextese	Troiken
14	Toong	NaN	...	Tundan	Tund
15	Cerean	mammal	...	Cerean	Cerea
16	Nautolan	amphibian	...	Nautila	Glee Anselm
17	Zabrak	mammal	...	Zabraki	Iridonia
18	Tholothian	mammal	...	NaN	Tholoth
19	Iktotchi	NaN	...	Iktotchese	Iktotch
20	Quermian	mammal	...	Quermian	Quermia
21	Kel Dor	NaN	...	Kel Dor	Dorin
22	Chagrian	amphibian	...	Chagria	Champala
23	Geonosian	insectoid	...	Geonosian	Geonosis
24	Mirialan	mammal	...	Mirialan	Mirial
25	Clawdite	reptilian	...	Clawdite	Zolan
26	Besalisk	amphibian	...	besalisk	Ojom
27	Kaminoan	amphibian	...	Kaminoan	Kamino
28	Skakoan	mammal	...	Skakoan	Skako
29	Muun	mammal	...	Muun	Muunilinst
30	Togruta	mammal	...	Togruti	Shili
31	Kaleesh	reptile	...	Kaleesh	Kalee

	name	...	starship_class
32	Pau'an	mammal ... Utapese	Utapau
33	Wookiee	mammal ... Shyriiwook	Kashyyyk
34	Droid	artificial ... NaN	NaN
35	Human	mammal ... Galactic Basic	Coruscant
36	Rodian	sentient ... Galactic Basic	Rodia

[37 rows x 10 columns]

	name	...	starship_class
0	Executor	...	Star dreadnought
1	Sentinel-class landing craft	...	landing craft
2	Death Star	...	Deep Space Mobile Battlestation
3	Millennium Falcon	...	Light freighter
4	Y-wing	...	assault starfighter
5	X-wing	...	Starfighter
6	TIE Advanced x1	...	Starfighter
7	Slave 1	...	Patrol craft
8	Imperial shuttle	...	Armed government transport
9	EF76 Nebulon-B escort frigate	...	Escort ship
10	Calamari Cruiser	...	Star Cruiser
11	A-wing	...	Starfighter
12	B-wing	...	Assault Starfighter
13	Republic Cruiser	...	Space cruiser
14	Naboo fighter	...	Starfighter
15	Naboo Royal Starship	...	yacht
16	Scimitar	...	Space Transport
17	J-type diplomatic barge	...	Diplomatic barge
18	AA-9 Coruscant freighter	...	freighter
19	Jedi starfighter	...	Starfighter

	name	...	vehicle_class/type
20	H-type Nubian yacht	...	yacht
21	Star Destroyer	...	Star Destroyer
22	Trade Federation cruiser	...	capital ship
23	Theta-class T-2c shuttle	...	transport
24	T-70 X-wing fighter	...	fighter
25	Rebel transport	...	Medium transport
26	Droid control ship	...	Droid control ship
27	Republic Assault ship	...	assault ship
28	Solar Sailer	...	yacht
29	Republic attack cruiser	...	star destroyer
30	Naboo star skiff	...	yacht
31	Jedi Interceptor	...	starfighter
32	arc-170	...	starfighter
33	Belbullab-22 starfighter	...	starfighter
34	V-wing	...	starfighter
35	CR90 corvette	...	corvette
36	Banking clan frigate	...	cruiser

[37 rows x 13 columns]

	name	...	vehicle_class
0	Sand Crawler	...	wheeled
1	T-16 skyhopper	...	repulsorcraft
2	X-34 landspeeder	...	repulsorcraft
3	TIE/LN starfighter	...	starfighter
4	Snowspeeder	...	airspeeder
5	TIE bomber	...	space/planetary bomber
6	AT-AT	...	assault walker
7	AT-ST	...	walker

8	Storm IV Twin-Pod cloud car ...	repulsorcraft
9	Sail barge ...	sail barge
10	Bantha-II cargo skiff ...	repulsorcraft cargo skiff
11	TIE/IN interceptor ...	starfighter
12	Imperial Speeder Bike ...	speeder
13	Vulture Droid ...	starfighter
14	Multi-Troop Transport ...	repulsorcraft
15	Armored Assault Tank ...	repulsorcraft
16	Single Trooper Aerial Platform ...	repulsorcraft
17	C-9979 landing craft ...	landing craft
18	Tribubble bongo ...	submarine
19	Sith speeder ...	speeder
20	Zephyr-G swoop bike ...	repulsorcraft
21	Koro-2 Exodrive airspeeder ...	airspeeder
22	XJ-6 airspeeder ...	airspeeder
23	LAAT/i ...	gunship
24	LAAT/c ...	gunship
25	Tsmeu-6 personal wheel bike ...	wheeled walker
26	Emergency Firespeeder ...	fire suppression ship
27	Droid tri-fighter ...	droid starfighter
28	Oevvaor jet catamaran ...	airspeeder
29	Raddaugh Gnasp fluttercraft ...	air speeder
30	Clone turbo tank ...	wheeled walker
31	Corporate Alliance tank droid ...	droid tank
32	Droid gunship ...	airspeeder
33	AT-RT ...	walker
34	AT-TE ...	walker
35	SPHA ...	walker

36	Flitknot speeder	...	speeder
37	Neimoidian shuttle	...	transport
38	Geonosian starfighter	...	starfighter

[39 rows x 11 columns]

Database shape:

 (261, 49)

Database data:

	name	height	...	consumables_y	vehicle_class
0	Luke Skywalker	172.0	...	NA	NA
1	C-3PO	167.0	...	NA	NA
2	R2-D2	96.0	...	NA	NA
3	Darth Vader	202.0	...	NA	NA
4	Leia Organa	150.0	...	NA	NA
..	...	... ...	...	...	
256	AT-TE	NA	...	21 days	walker
257	SPHA	NA	...	7 days	walker
258	Flitknot speeder	NA	...	NA	speeder
259	Neimoidian shuttle	NA	...	7 days	transport
260	Geonosian starfighter	NA	...	NA	starfighter

[261 rows x 49 columns]

{'people': 'https://swapi.py4e.com/api/people/', 'planets': 'https://swapi.py4e.com/api/planets/', 'films': 'https://swapi.py4e.com/api/films/', 'species': 'https://swapi.py4e.com/api/species/', 'vehicles': 'https://swapi.py4e.com/api/vehicles/', 'starships': 'https://swapi.py4e.com/api/starships/'}

--Star Wars Chatbot—

What character from Star Wars do you want to know about?

What planet from Star Wars do you want to know about?

What species from Star Wars do you want to know about?

What starship from Star Wars do you want to know about?

What vehicle from Star Wars do you want to know about?