Data Visualization - Practice 1 (2023 ver)

Pokemon

이 데이터는 포켓몬 7 세대까지 등장한 모든 801 종의 포켓몬에 대한 정보이다. 이 데이터에는 기본 능력치, 다른 타입에 대한 상성, 키, 몸무게, 종류, 알에서 부화하기 위한 걸음수, 경험치, 능력치 등을 포함한다.

This dataset contains information on all 801 Pokemon from all Seven Generations of Pokemon. The information contained in this dataset include Base Stats, Performance against Other Types, Height, Weight, Classification, Egg Steps, Experience Points, Abilities, etc.

- name: The English name of the Pokemon
- pokedex_number: The entry number of the Pokemon in the National Pokedex
- percentage_male: The percentage of the species that are male. Blank if the Pokemon is genderless.
- type1: The Primary Type of the Pokemon
- type2: The Secondary Type of the Pokemon
- classification: The Classification of the Pokemon as described by the Sun and Moon Pokedex
- height_m: Height of the Pokemon in metres
- weight_kg: The Weight of the Pokemon in kilograms
- capture_rate: Capture Rate of the Pokemon
- baseeggsteps: The number of steps required to hatch an egg of the Pokemon
- abilities: A stringified list of abilities that the Pokemon is capable of having
- experience_growth: The Experience Growth of the Pokemon
- base_happiness: Base Happiness of the Pokemon

- against_?: Eighteen features that denote the amount of damage taken against an attack of a particular type
- hp: The Base HP of the Pokemon
- attack: The Base Attack of the Pokemon
- defense: The Base Defense of the Pokemon
- sp_attack: The Base Special Attack of the Pokemon
- sp_defense: The Base Special Defense of the Pokemon
- speed: The Base Speed of the Pokemon
- generation: The numbered generation which the Pokemon was first introduced
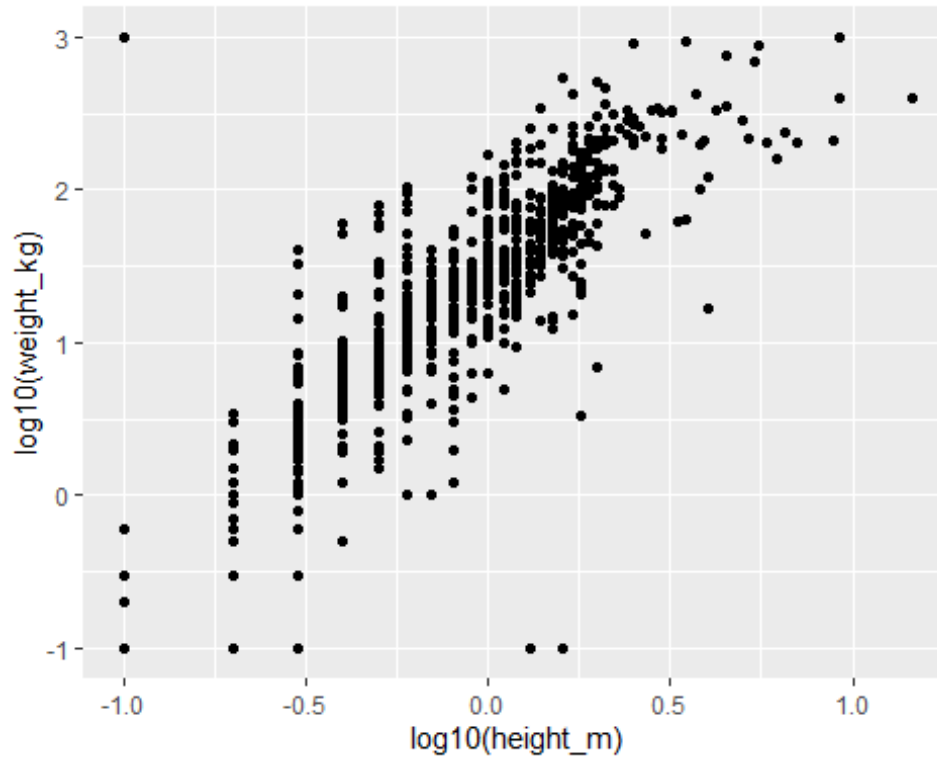- is_legendary: Denotes if the Pokemon is legendary.

포켓몬스터 관련 data 를 활용하여 아래 데이터 시각화를 수행하시오.

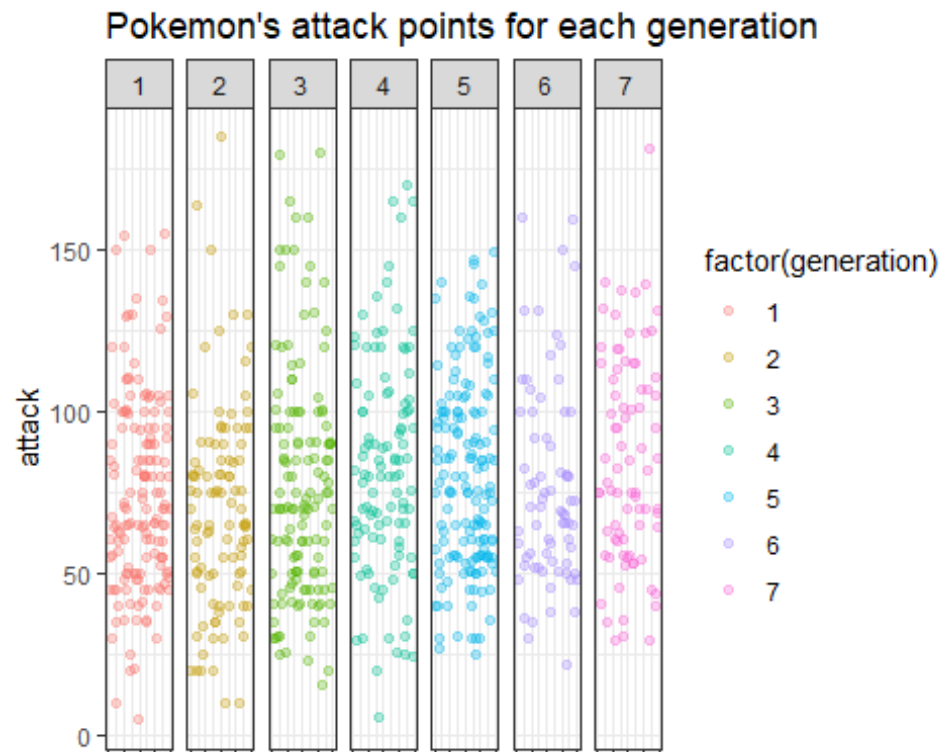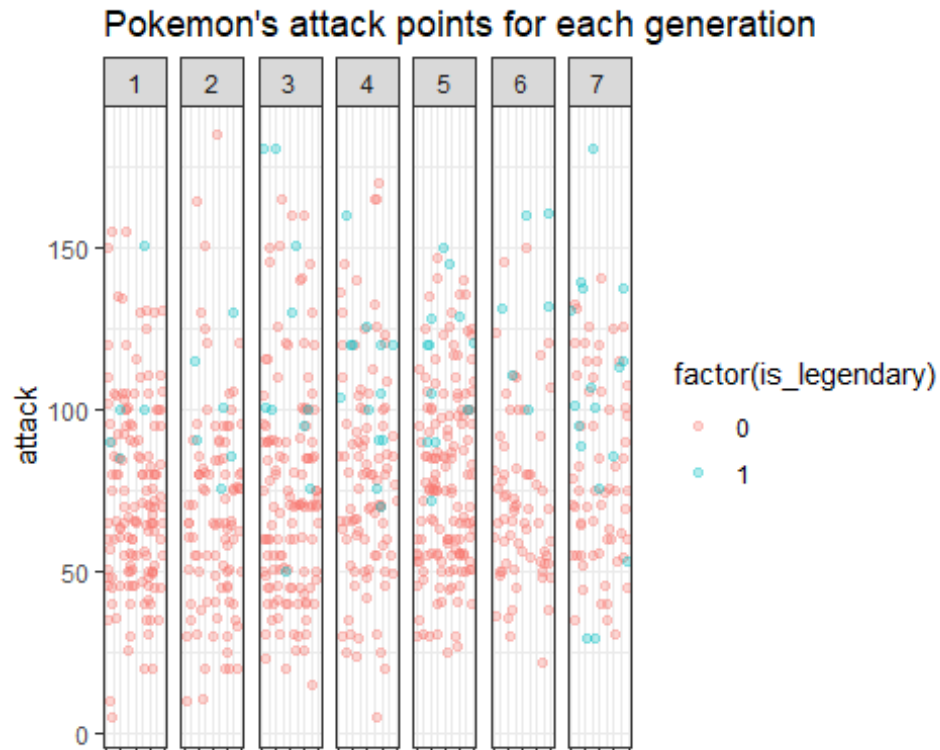Perform data visualization with given Pokemon dataset.

Q1-1
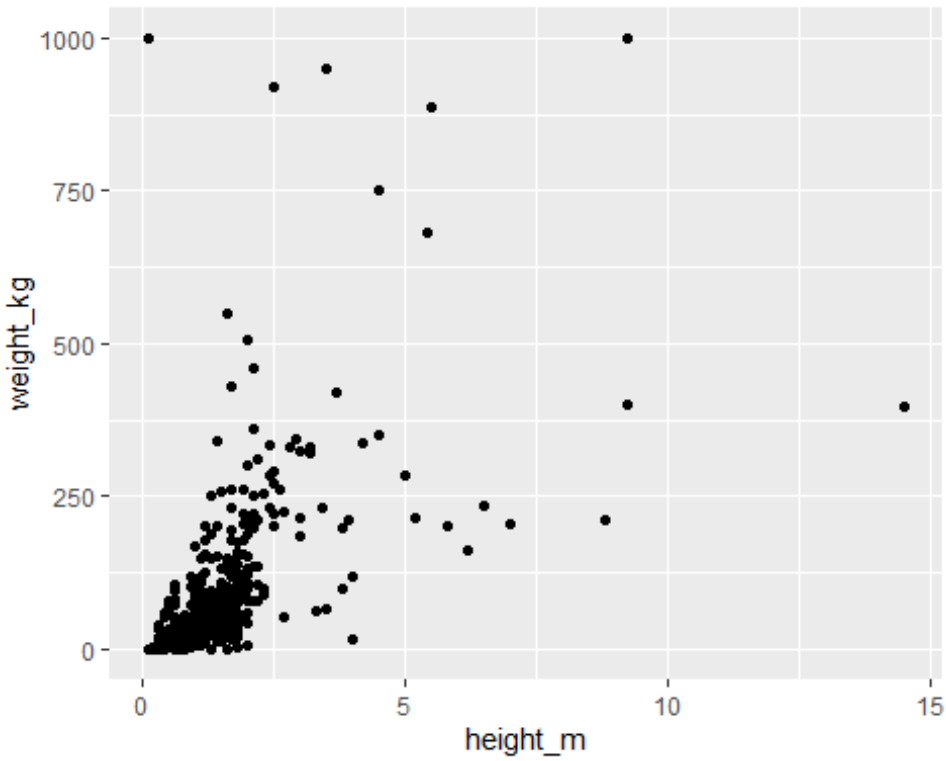
Q1-2

Q1-3

시각화 결과 height 는 매우 작지만, weight 가 1000kg 에 가까운 pokemon 이 있다. 해당 pokemon 을 조사해보고 어떤 pokemon 인지 설명해보자 (그림 첨부)

Pokemon's attack points for each generation

Q2-2

Pokemon's attack points for each generation

Q3

Data Exploration 을 위한 data visualization 을 3 개 수행하라. Data Exploration 을 통해 알 수 있었던 findings 를 설명하시오.

Q4

Q3 를 통해 알게 된 사실을 보다 분명하게 보여주는 시각화 자료를 생성하시오. (Explantory Visualization) 구성된 시각화를 통해서 자세하게 설명하시오. (각각의 요소를 선택한 이유, 설명하고자 하는 메세지 등)