* What are average, max, and min values in the data?
* What about those numbers per category in the data (using HAVING)?
* What ways are there to group the data values that don’t exist yet (using CASE)?
* What interesting ways are there to filter the data (using AND/OR)?

SELECT name AS Legendary, total

FROM pokemon

WHERE Legendary = "True"

ORDER BY total desc

LIMIT 25;

SELECT name, MAX(HP) AS HP\_Top\_25

FROM pokemon

GROUP BY name

HAVING MAX(HP)

ORDER BY MAX(HP) desc

LIMIT 25;

SELECT name, MAX(Speed) AS Speed\_Top\_25

FROM pokemon

GROUP BY name

HAVING MAX(Speed)

ORDER BY MAX(Speed) desc

LIMIT 25;

SELECT name, MAX(attack) AS Attack\_Top\_25

FROM pokemon

GROUP BY name

HAVING MAX(attack)

ORDER BY MAX(attack) desc

LIMIT 25;

SELECT name, MAX(defense) AS Defense\_Top\_25

FROM pokemon

GROUP BY name

HAVING MAX(defense)

ORDER BY Max(defense) desc

LIMIT 25;

SELECT AVG(Speed) FROM pokemon;

SELECT AVG(HP) FROM pokemon;

SELECT AVG(attack) FROM pokemon;

SELECT AVG(defense) FROM pokemon;

SELECT Name, Type\_1, Type\_2, (AVG(Speed)) AS average\_speed, (AVG(HP)) AS average\_HP, (AVG(attack)) AS average\_attack, (AVG(defense)) AS average\_defense

FROM pokemon

GROUP BY name, Type\_1, Type\_2

HAVING ROUND(AVG(Speed)) > 68

AND ROUND(AVG(HP)) > 69

AND ROUND(AVG(attack)) > 79

AND ROUND(AVG(defense)) > 74

LIMIT 25

;

SELECT name, hp, attack, defense, speed

FROM pokemon

WHERE hp >= 120

AND attack >= 150

AND defense >= 140

AND speed >= 125;

SELECT name, HP, attack, defense, speed,

CASE

WHEN hp >= 120

THEN "Top 25 HP ranked Pokemon"

WHEN attack >= 150

THEN "Top 25 attack ranked Pokemon"

WHEN defense >= 140

THEN "Top 25 defense ranked Pokemon"

WHEN speed >= 125

THEN "Top 25 speed ranked Pokemon"

ELSE "Pokemon not ranked in top 25 for hp, attack, defense, or speed"

END AS "Pokemon\_ranking"

FROM pokemon;