

Welcome to Intro to Programming!



long journey!



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Pokéapi - The Pokémon RESTful API

Finally; all the Pokémon data you'll ever need, in one place, and easily accessible through a modern RESTful API.

Over 43,576,100 API calls received!

Try it now!

http://pokeapi.co/api/v1/ pokemon/1/

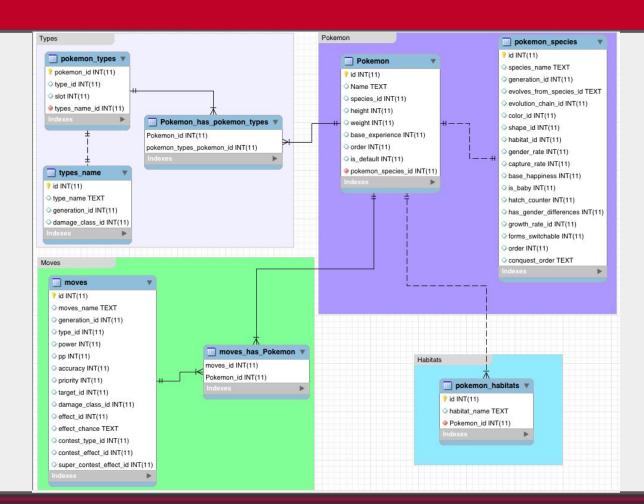
Need a hint? try pokemon/1/or type/3/or ability/4/

Resource for Bulbasaur

```
"abilities": [
                "name": "chlorophyll",
                "resource_uri": "/api/v1/ability/34/"
                "name": "overgrow",
                "resource uri": "/api/v1/ability/65/"
"attack": 49,
```









List the number of pokemon within each type in descending order.

SELECT FROM





SELECT TN.type_name,

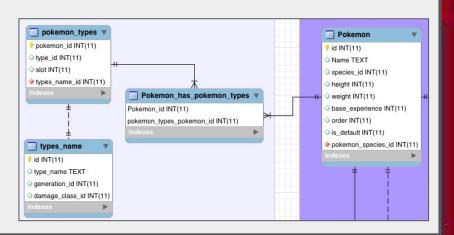
COUNT(TN.type_name) AS num_of_this_type

FROM types_name TN

INNER JOIN pokemon_types PT ON PT.type_id = TN.id

INNER JOIN Pokemon P ON P.id = PT.pokemon_id

GROUP BY TN.type_name
ORDER BY COUNT(TN.type_name) DESC;





type_name	num_of_this_type
water	124
normal	99
flying	98
grass	94
psychic	86
bug	71
fire	63
ground	63
poison	61

rock	57
fighting	51
electric	50
dark	48
steel	47
dragon	46
ghost	45
fairy	38
ice	38



Which types of moves are most useful in pokemon contests?

SELECT FROM





CREATE VIEW contest_moves AS

SELECT M.type_id, TN.type_name, M.moves_name, M.contest_type_id, M.contest_effect_id

FROM moves M

INNER JOIN types_name TN ON TN.id = M.type_id

WHERE contest_effect_id >= 30

ORDER BY contest_effect_id DESC;

SELECT type_name, COUNT(type_id) AS num_moves_per_type, contest_type_id, contest_effect_id

FROM contest_moves

GROUP BY type_name, contest_type_id, contest_effect_id
ORDER BY COUNT(type_id) DESC;



type_name	num_moves_per_type	contest_type_id	contest_effectiveness_id
poison	5	4	33
normal	3	3	32
normal	2	4	33
normal	2	2	32
bug	2	2	32
fighting	2	5	31
normal	2	1	30
ice	1	2	33
psychic	1	4	33
normal	1	4	33



What moves can grass-type pokemon have?

SELECT FROM





SELECT TN.type_name, TN.id FROM types_name TN WHERE TN.type_name = 'grass';

SELECT M.moves_name, M.type_id

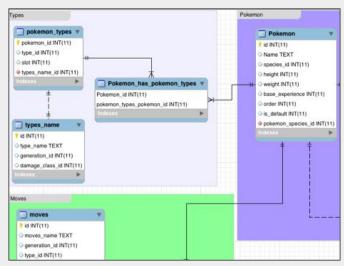
FROM pokemon_types T INNER JOIN

moves M ON T.type_id = M.type_id INNER JOIN

Pokemon P ON P.id = T.pokemon_id

WHERE M.type_id = 12

GROUP BY moves_name;





type_name	id
grass	12



moves_name	type_id
absorb	12
aromatherapy	12
bullet-seed	12
cotton-guard	12
cotton-spore	12
energy-ball	12
forests-curse	12
frenzy-plant	12
giga-drain	12

12
12
12
12
12
12
12
12
12



Which type of pokemon has the highest average power of moves?

SELECT FROM





SELECT TN.type_name, AVG(M.power) as average_power

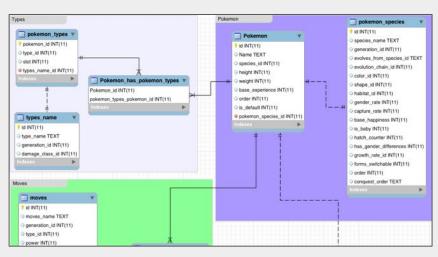
FROM types_name TN

INNER JOIN pokemon_species PS on TN.generation_id =

PS.generation_id

INNER JOIN moves M on M.type_id = TN.id

GROUP BY TN.type_name
ORDER BY average_power DESC;





type_name	average_power
fire	83.3333
dragon	74.2308
water	62.3214
flying	59.7826
fighting	58.5714
rock	58.125
ice	57.8571
electric	51.4815
grass	49.4595

ground	47.381
shadow	45
steel	43.4211
poison	42.6087
bug	36.8
ghost	35.8333
fairy	31.4706
dark	30.3226
normal	28.7267
psychic	25.8333





Which generation of pokemon has the highest average weight? Out of that generation, which pokemon weighs the most?

SELECT FROM



SELECT PS.generation_id, AVG(P.weight) AS avg_weight FROM Pokemon P

INNER JOIN pokemon_species PS ON P.id = PS.id
GROUP BY generation_id
ORDER BY avg_weight DESC;

SELECT PS.species_name, MAX(P.weight)

FROM Pokemon P

INNER JOIN pokemon_species PS ON P.id = PS.id

WHERE generation_id = 4

GROUP BY species_name

ORDER BY MAX(P.weight) DESC

LIMIT 1;



generation_id	avg_weight
4	768.8505
3	670.7778
5	524.0256
6	514.0139
2	491.05
1	459.5166

species_name	weight
giratina	7500







Questions were defeated! Query grew to Lv. 5! 💙

